



# GENERAL CATALOG

## 2020



SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD.  
[www.cem-instruments.com](http://www.cem-instruments.com)

***CEM***



## ROBUST & DURABLE STRONG OVER ANY REQUIREMENTS

For over 29 years, CEM, SHENZHEN EVERBEST MACHINERY INDUSTRY CO.,LTD has been a leading Chinese manufacturer specialized in Thermal imager, Infrared Thermometer, Digital Multimeter, Clamp-on Meter, Insulation Tester, Electrical Tester, Light Meter, Sound Level Meter, Thermo-Anemometer, Gas Detector, Manometer and Various measuring instruments.

More than 29 years of manufacturing experience has given us the confidence to guarantee the quality of all our exports. Our factory in Shenzhen China, occupies 3 buildings with area of 24,000.00 square meter. 2 R & D centers are on hand for customers' requirements, constantly working on new products to meet the ever changing demand of our customers' needs.

More than 1200 employees and five production departments ensure to provide prompt and timely delivery to our customers.

All our management is organized according to ISO9001. As a result, our products are approved by UL, GS, CE and RoHS. In 2009 CEM has passed medical ISO13485 quality certificate for medical products. In 2019, CEM SMART AIR QUALITY LABORATORY has passed CNAS audit, it is a CNAS standard testing laboratory, conforming to ISO/IEC 17025 standards.

Let Everbest 29 years of export experience work for you. Find out more about our range of products and services. For inquiries, contact us now.





# RESEARCH & DEVELOPMENT

CEM engineers constantly work on innovative new products, that combine the features and functions that our customers asking for. Two R&D centers are on hand to meet the ever changing demand of customers' needs.







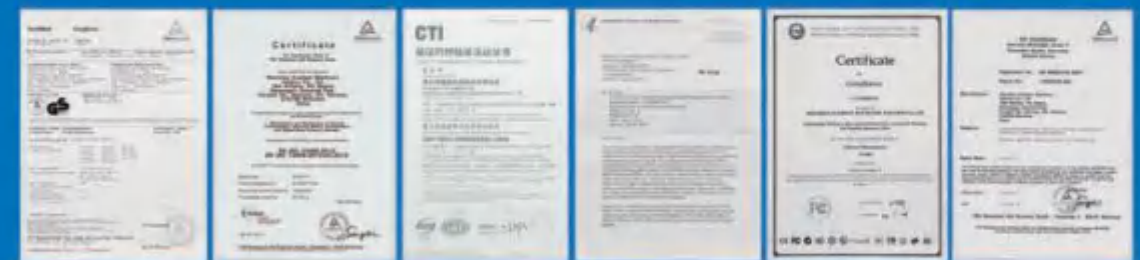
## HEAD QUARTER

29 years of experience in the production and marketing, professional development, design and scientific management, created high-tech, high-precision instruments.  
Constantly working on new products to meet the ever changing demand from our customers.



Timely after-sale service: according to the different needs and feedback of customers, CEM provide quality and technical support to ensure fast and effecient after-sale service channel. Customers' satisfaction is the most important thing for our long good business relations.

All our management is organized according to ISO9001. As a result, our products are approved by UL, GS, CE and RoHS. In 2009 CEM has passed medical ISO13485 quality certificate for medical products.



GS

ISO13485

ISO9001

FDA

CE

CE0197



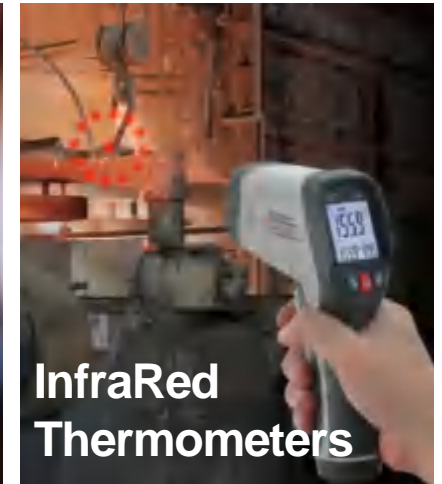


**MANUFACTURING  
PROCESS**

All our management of production is organized according to ISO9001 & ISO13485.  
As a result, our products are approved by UL, GS, CE and RoHS.



**Thermal Imagers**



**InfraRed  
Thermometers**



**Digital Multimeters**



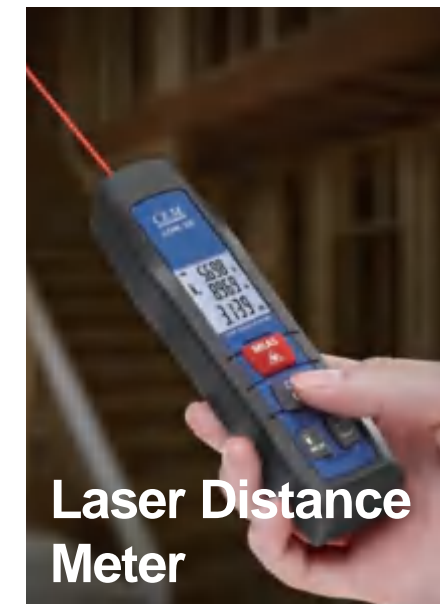
**Digital Clamp Meters**



**Multifunction  
Installation Tester**



**Particle  
Counter**

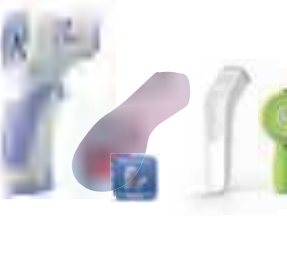
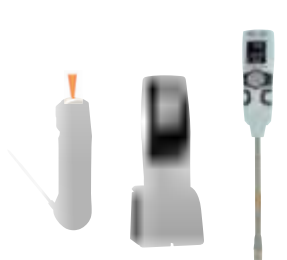
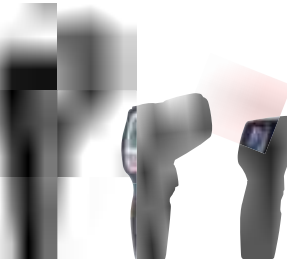


**Laser Distance  
Meter**



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277-376

377-388

389-398

**DT-9898/988 series  
Professional Thermal Imagers**

**P15/23**



Wi-Fi Connectivity/  
Bluetooth Communication



Model 9898



Model 988



640x480 High Performance Thermal Imager with 3.5" high resolution TFT color LCD display  
Built-in laser distance function  
Capacitive touch screen is easier, productive and effective to operate it

Powerful Auto Fusion mode(AUF)  
USB-mini, data transform between camera and PC  
WiFi real time share, free Cloud storage and analyse

**T-50F Series  
Portable thermal camera**

**P37**



Model T-50F

3.5" 640x480 high resolution TFT color LCD display  
Wide Field of View  
Durable, withstand up to a 2m drop  
320x240 Thermal Sensor  
WiFi real time share, free Cloud storage and analyse

**DT-981B High Performance Thermal Imager  
BXL-500P Portable IR Calibrator**

**P27/69**



Model 981B



Model BXL-500P

160x120 Infrared Resolution  
Durable, withstand up to a 2m drop  
50Hz fast frame rate, fast capture temperature varies  
Simple operate, easy to use Wifi interface

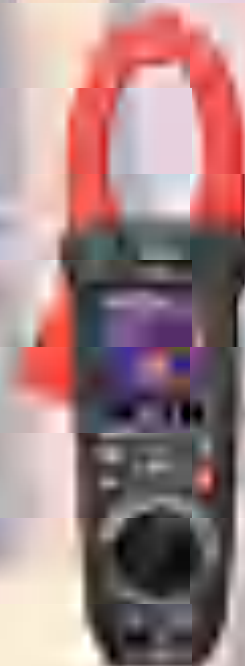
Temperature Range 35°C ~ 500°C  
TFT Color display with capacitive touch screen  
Ethernet network interface

**Professional Thermal Imagers plus application**

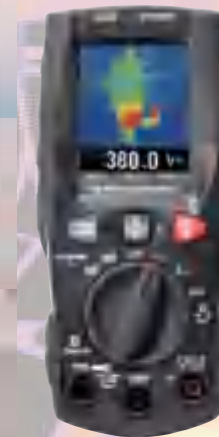
**P99/157/101/207**



Model 9889



Model 9581



Model 898FC



Model 6509

DT-9581 Professional AC/DC True RMS Clamp Meters with 80x80 InfraRed Thermal Imager  
DT-9889 Professional True RMS Industrial Multimeter with InfraRed Thermal Imager  
DT-898FC True RMS Compact Multimeter with InfraRed Thermal Imager  
DT-6509 3 in 1 Professional Insulation Tester with Thermal Imager & Micro-ohm meter

**T-70/71/72  
Handheld Thermal Vision Monocular**

**P36**



Model T-70

384x288 focal plane array (FPA), uncooled microbolometer with Wi-Fi connectivity  
50Hz image frequency and Focus free  
USB-micro, data transform between camera and PC

**DT-9868H  
Professional 32 x32 InfraRed Imager Thermometer**

**P44**



32x32 InfraRed Thermal Imager  
Infrared Thermal Temperature Range -20°C ~ 600°C  
2 million pixel video camera  
Single point infrared temperature Range -50°C ~ 1000°C



**DT-7760/7761**  
Three-phase Power Quality Analyzer with InfraRed Thermal Imager

P201



7760 Three-phase Power Quality and Energy Analyzer with InfraRed Thermal Imager offers the best in power quality analysis and the ability to monetarily quantify energy losses.

80x80 Infrared resolution  
Bluetooth (BLE) instant share function  
Power inverter efficiency  
PowerWave data capture  
Waveform capture  
Automatic Transient Mode  
Fully Class-A compliant

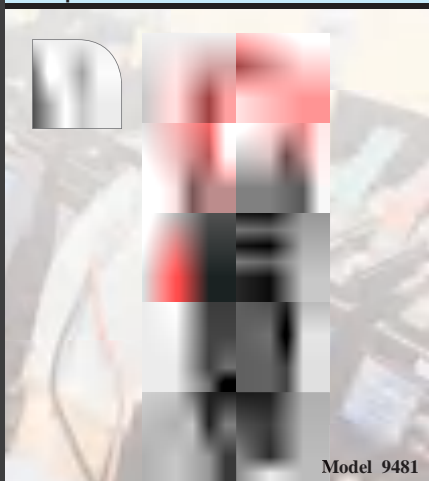
400Hz measurement  
Troubleshoot  
Automatic Trending  
System-Monitor  
Logger function  
View graphs and generate reports

**DT-6508B** P209  
Professional Insulation Tester



Model 320B Model 6508B  
Large 240x320 3.5" RGB color 6000 counts LCD display  
PI/DAR timed ratio tests  
Lock power on function for hands-free operation  
AC, AC+DC true-RMS measurements & 1kHz ACV, ACA bandwidth

**DT-9481** P157  
Professional 1500V AC/DC True RMS Clamp Meter



Model 9481  
2.4" 320x240 TFT color 6000 counts LCD display  
1500V AC/DC True RMS Clamp Meter  
Flexible current probe (320B/320BS optional) expands the measurement range to 3000 ACA  
Peak capture as fast as 500µs & Inrush current

**DT-927** P127  
Compact True RMS Multimeter with Battery test



Model 927  
True RMS Autoranging measurement  
Data Hold/REL measurement  
1.5V and 9V battery test  
Drop test up to 2 meters

**Professional AC, AC/DC True RMS Clamp Meters + NCV with Bluetooth**

P171/159/161/175



**3369T-BT**  
6000 Counts digital display with 60 segments analog bar  
True RMS measurement  
Inrush current & Peak Voltage function  
Bluetooth interface

**9382 Series:**  
1.8" TFT color LCD display counts  
AC True RMS  
100mS Inrush current  
Low input impedance prevents false readings due to "ghost voltage" (LoZ)

**9282 Series:**  
OLED display  
Low pass filter (VFD)  
100mS Inrush current  
LoZ Voltage measurement  
Bluetooth interface

**3398 Series:**  
CAT IV 1000V 2000A AC, AC/DC True RMS  
Inrush current measurement  
25th harmonic THDF/THDr  
Low pass filter  
Bluetooth interface

**DT-395/398** P165  
Professional 600A AC, AC/DC True RMS Clamp Meters Built-in InfraRed Thermometers



Model 395 Model 398  
600A True RMS Clamp Meter with IR temperature  
Backlight for LCD, knob Switch & Flashlight  
LoZ Voltage measurement  
AC True RMS  
100ms Inrush current & ACV function

**DT-9018/9019** P237  
Electrical Testers



Model 9019 Model 9018  
1999 Counts LCD display (9019)  
Test AFCI & GFCI devices  
Capable of detecting a dual-open wiring fault with simultaneous open neutral and open ground wires

**DT-9964H** P115  
Heavy Duty True RMS Industrial Multimeters with VFD Measurement



Model 9664H  
Low pass filter for accurate measurement of variable frequency drive (VFD) signals  
Low input impedance prevents false readings due to "ghost voltage" (LoZ)  
3000A ACA flexible clamp, Peak Value



Professional Digital Multimeter

P151/117/137/229



Model 9626      Model 9915H      Model 180A      Model AC-11H

**9626 Series**  
Larger 50000 counts display with bargraph  
True RMS Digital Multimeter with IR temperature  
Low pass filter (VFD)

**9915H Series:**  
True RMS Digital Multimeter with IP67 proof  
AC/DC current clamp-on adaptor input  
Wide capacitance range

**180A Series:**  
6000 count pocket True RMS Digital Multimeter  
**11H**  
Non-contact AC Voltage Tester  
Dual Voltage Sensitivity detector

CT-260A P238  
Digital Circuit Breaker Finder with GFCI Outlet Tester



Model CT-260A      Model CT-260B

Operates on 90-240V AC circuits  
Transmitter incorporates a GFCI outlet tester  
Built to withstand a 6.6-Foot (2 m) drop  
Low battery indicator

Professional Coating Thickness Tester  
Professional Laser Distance Meter of outdoor application

P249/245/258/257

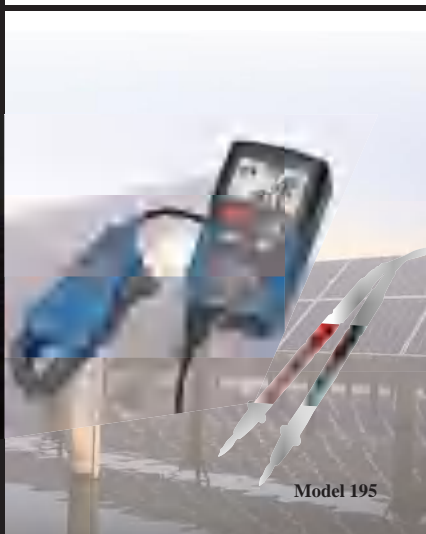


Model 1580      Model 159      Model LDM-380      Model LDM-40B Series

**1580** Dual and single element transducer compatibility  
Wide thickness range: 0.08 mm (0.003 in.) to 635 mm (25 in.) depending on material and transducer selection  
**159** is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement.  
The LCD screen can auto-rotate with 0°, 90°, 180°, 270°

The **LDM-40B** series enhanced the measurement ability of outdoor application.  
The last 20 measurements are also stored.  
High Accuracy ±1.5mm  
IP54 water and dust proof  
Buzzer indication

DT-195 P220  
AC Voltage power recorder with Dataloggers



Model 195

Configurable recording interval  
Graphical and spreadsheet data summaries  
Min, Max, Average RMS values with time stamps  
Transient waveform recording  
Print tables, graphs and comprehensive formatted reports

DT-333H P186  
Compact 400A AC, AC/DC True RMS Clamp Meters



Model 333H

True RMS measurement for ACV & ACA  
Low pass filter (VFD)  
NCV Function  
Live test  
Data Hold function & Backlight

ET-19L P238/229  
GFCI & Receptacle Tester with Voltage Display



Model ET-19L      Model AC-6H

**ET-19L Series:**  
Receptacle Testers are designed to detect the most common wiring problems in standard and GFCI receptacles.  
**AC-6H Series:**  
ACV Non-Contact Detection

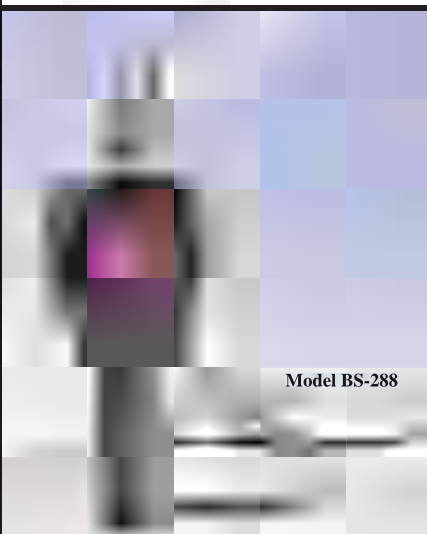
BT-120 P382  
Automotive Battery Tester



Model BT-120

Battery testing ranges from 100 to 2000 CCA  
Detect bad cells & Test deep discharge battery  
Protect against reverse polarity

BS-288 P270  
Thermal Borescope



Model BS-288

3.5" Color TFT LCD, supporting photo/video, time/date display and multi-languages.  
120x90 InfraRed Thermal Imager  
2xZoom, 90° rotation  
Wi-Fi real time share

BS-100W P274  
Wi-Fi Endoscope



Model BS-100W

Wifi Endoscope  
1280x720 pixels  
Wi-Fi real time share  
Wi-Fi transmission distance ≥10m



**DT-72A/72H/72TH/72S/72I/72MC/72MR/72DP/72T1**  
Environment Meter Probes with Bluetooth

P291



DT-72 series Environment Meter Probes are professionally designed with completely modern new outlook. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

**DT-9890** P373  
Professional Particle Counter



3.5" TFT 960x480 pixels Color LCD display  
Air temperature and humidity, Dewpoint & Wet bulb temperature  
Store 10000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms etc  
Bluetooth interface with Smart phone APP

**EMF-90/ DT-97U/93U/96/93HW**  
Environment Meter Probes with Bluetooth

P295



2" TFT color LCD display, Data transfer to PC via USB(CSV or EXCEL files), Chart function & Data-logger function  
DT-93U HCHO & TVOC & temperature & humidity meter.  
DT-97U high-precision CO2 and CO & temperature & humidity meter.  
DT-93HW is a Mini Hot Wire anemometer with temperature & humidity measurement.  
DT-96 Mini Particle Counter  
EMF-90 Multifunction EMF Meter

**DT-8321** P312  
Temp. / Humidity & Dewpoint Meters



The Laboratory Hand-Held Temperature / Humidity & Dewpoint Meters measure dew point temperature accurately over a wide measurement range (8321)

**MT-1** P94  
Non-Contact Clinical Forehead Infra-Red Thermometer with TDS/TVOC



Non-Contact Clinical Forehead InfraRed Thermometer with TDS/TVOC  
White / Green / Red LED alarm display  
Fast response less than 1 second

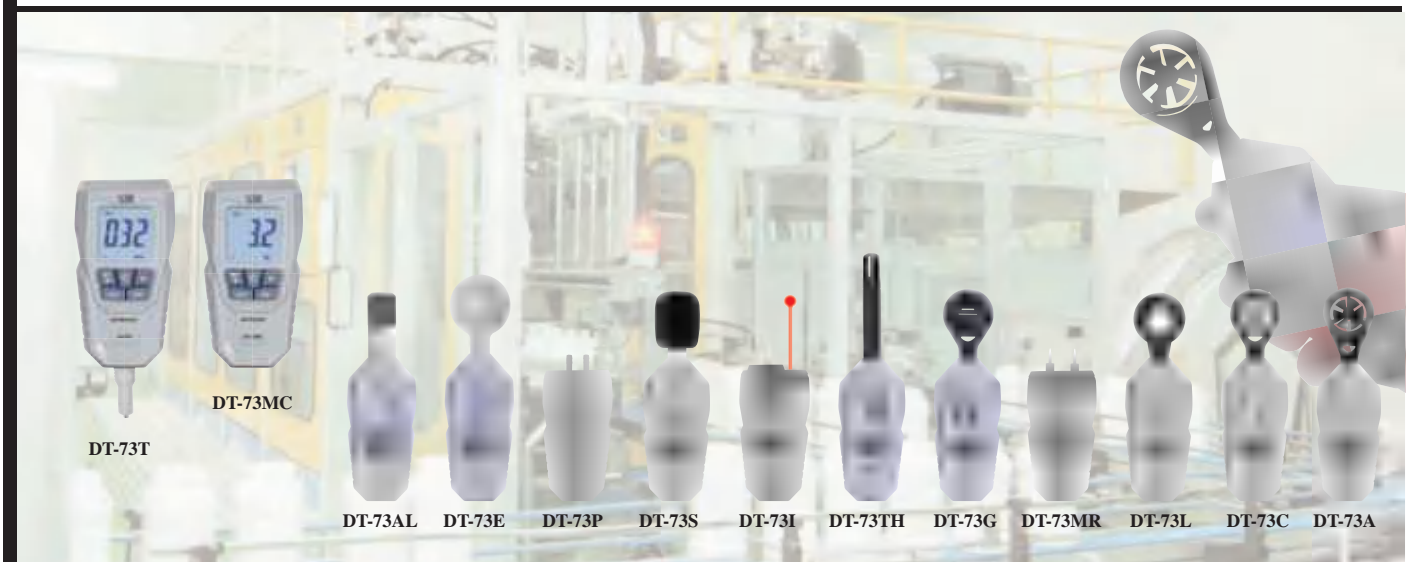
**PM-280/CM-280** P369  
PM2.5 Air Quality Detector



PM2.5/PM10, Air temperature and humidity test  
HCHO/ TVOC/CO/CO2 detection  
Wireless interface

**DT-73AL/73E/73P/73S/73I/73TH/73G/73MR/73L/73C/73A/73T/73MC**  
Mini Environment Meters

P299



DT-73A mini anemometer with air velocity and temperature measurement.  
DT-73TH Humidity & Air Temperature meter.  
DT-73G real-time HCHO and TVOC meter.  
DT-73S mini noise sound level meter.  
DT-73L precision Light meter.

DT-73C Carbon Monoxide Meter.  
DT-73AL Alcohol Tester  
DT-73E Electromagnetic Wave Tester  
DT-73P Pressure Meter  
DT-73MR Moisture Meter

DT-73I InfraRed Thermometer  
DT-73MC Pinless Moisture Meter  
DT-73T TDS Tester  
Bluetooth interface (Optional)



## Industrial-Commercial Thermal Imagers


The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

**CE** EMC&LVD  
 EN: 61326  
 EN: 61010-1  
 EN: 61010-02-032

- 640x480 3.5" TFT touch screen
- HDMI High resolution video output
- Built-in Laser distance meter
- Wi-Fi connectivity
- Transfers images and data to mobile devices to share reports and critical information quickly



Thermal Imagers Selection Guide

						
	DT-870 Series	DT-890 Series	DT-980 Series	DT-988 Series	DT-9875 Series	DT-9898 Series
IR resolution	120x90	160x120	220x160	384x288	384x288	640x480
	80x80	120x90	160x120	256x192	160x120	384x288
Field of View (FOV)	21°x21°	36°x27°	17°x17°	24.6°x19.8°	24.6°x18.6°	28°x21°
Display	2" 240x320	2" 240x320	2.8" 240x320	3.5" 320x240	3.5" 320x240	3.5" 640x480
Object temperature range	-20~380°C	-20~450°C	-20~650°C	-20~650°C	-20~800°C	-20~1500°C
Visible camera			5M	2M	0.3M	2M
WiFi connectivity			*	*		*
Bluetooth	*	*				
Video record			*	*	*	*
Features	Bluetooth Instant share	Bluetooth Instant share Long operate time	Auto fusion (AUF)	Auto fusion (AUF)	Touchscreen	Laser range finding function Autofocus Auto fusion (AUF) Touchscreen



Worldwide Patent:  
PCT/CN2016/079015

**Big brilliant touch screen,clear view  
from any angle under the sun**

IR resolution 640x480 ( 9898 )  
Auto fusion mode (AUF)  
Laser distance meter function  
WiFi connectivity

CE EMC  
EN: 61326-1  
EN: 61010-1



Model: 9898



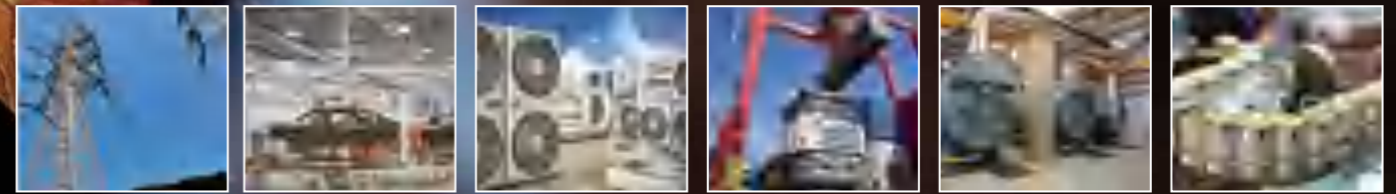
## Professional Thermal Imagers

9898 Series new generation High Performance Thermal Imagers with powerful Auto Fusion mode(AUF). AUF is a dynamic image enhancement-algorithm for infrared cameras. 9898 Series are easy to help you to find the potential problems with innovation features and powerful Apps.

### Key features

- 3.5" 640x480 Big brilliant touch screen,clear view from any angle under the sun
- 640x480 High Performance Thermal Imager with high resolution TFT color LCD display
- Built-in laser distance function
- Capture additional measurements fast and conveniently with wireless modules
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Picture in Picture function displays thermal image super-imposed over a digital image
- LED Flashlight allows the visual camera and fusion to be used in poorly lit environments
- ±2% Accuracy for reliable temperature measurement
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.

### Applications



Power Electronics

Plant/General  
Maintenance

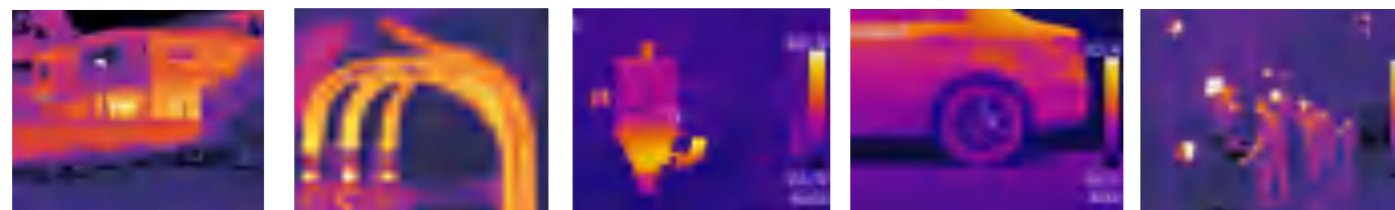
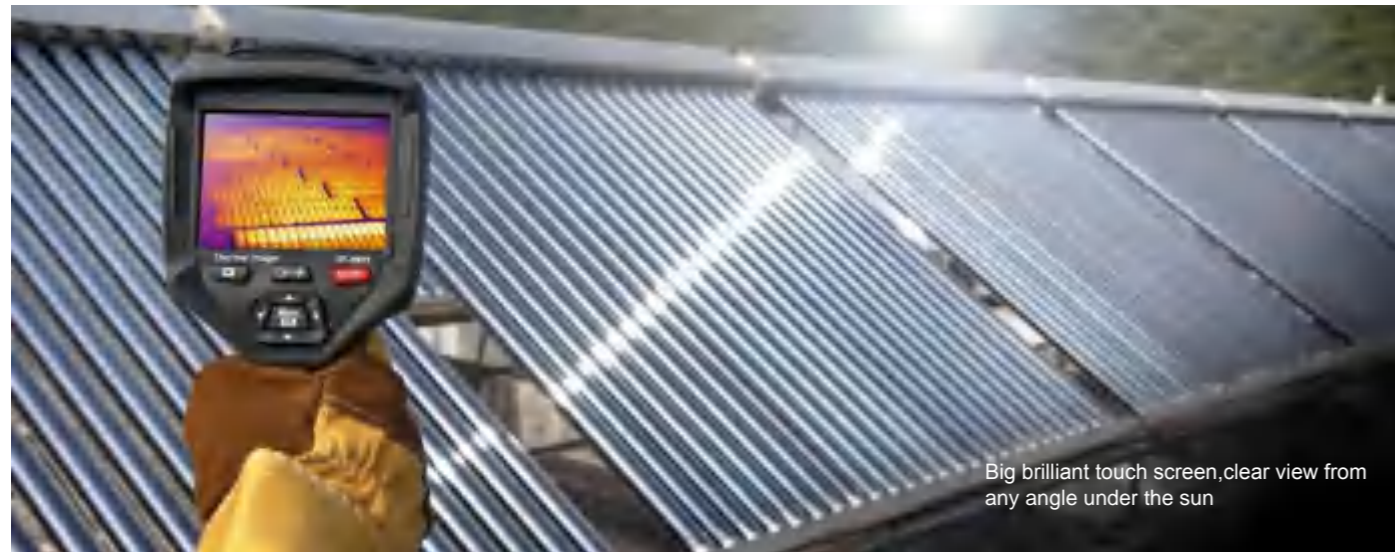
HVAC/R











Transportation/  
Automotive

Cooling and  
Reheating

Food service  
Equipment





 640x480 3.5" capacitive touch screen	 Auto Fusion mode (AUF)	 Wi-Fi Connectivity	 Large aperture lens	 IP54
 Temperature range up to 1500°C	 Laser distance measurement	 NETD 50mk	 Professional analyse software	 5M visible light digital camera

Specifications		9896	9897	9898	9899
<b>Imaging and optical data</b>					
IR resolution	focal plane array (FPA), uncooled microbolometer	160x120	384x288	640x480	1024x768
Field of View (FOV)	29.8° × 22.6°	17.3°x13°	19.7°x14.7°	18.9°x14.2°	30.2°x22.6°
Spatial resolution	(IFOV)	1.89mrad	0.89mrad	0.51mrad	0.51mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK	*	*	*	*
Image frequency	50Hz	*	*	*	*
Focus	Manual	*	*	*	*
Laser range finding function	0.05 to 30m(0.15ft to 98ft) Typically: ±2mm(±0.06in)	*	*	*	*
<b>Image presentation</b>					
Display	3.5" 640x480TFT , capacitive touch screen	*	*	*	*
Image modes	IR image, visual image, picture in picture, AUF, Distance	*	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm, vision zone	*	*	*	*
<b>Measurement</b>					
Object temperature range	Low range: -20°C to +150°C (-4°F to +302°F) High range: 0°C to +650°C (+32°F to +1202°F) Extend to 1500°C (2732°F) (optional)	*	*	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*	*
<b>Measurement analysis</b>					
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks line analyse,area analyse	*	*	*	*
<b>Set-up</b>					
Laser / floodlight	< class2 / white LED floodlight	*	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*	*
<b>Storage of videos/images</b>					
Storage media	16Gbytes Micro SD card	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*
<b>Digital camera</b>					
Built-in visible light digital camera	5M Pixels	*	*	*	*
<b>Data communication interfaces</b>					
USB interfaces	USB-micro, data transform between camera and PC	*	*	*	*
	remote control, live video	*	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*	*
<b>Power system</b>					
Battery	Lithium polymer battery, 4 hours operating time	*	*	*	*
Input voltage	DC 5V	*	*	*	*
Charging system	In camera (AC adapter)	*	*	*	*

Size(HxWxD): 268mm x 100mm x 125mm      Weight: 820g  
 Accessories: Carrying case, 7.5mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.





- Temperature range from 600°C to 2000°C
- Wide dynamic CMOS sensor
- Little radiometric effect for Short wave detector
- Remote control by local network
- Normal image processing software
- Thermal imaging through the glass or quartz windows

### Applications

- Chemical Process Detection
- Metal-making Process Detection
- Glass-making Process Detection
- Paper-making Process Detection
- Thermal imager inspection for High temperature industrial furnace
- Impurity detection for molten metal
- Fire protection & Forest fire prevention
- Rocket tracking

CE  
EMC  
EN: 61326-1  
EN: 61010-1

DB-740 Short wave thermal imager is high performance for 800-1100nm infrared image, which is for temperature measurement above 600°C. Short wave thermal imager is widely used for continuous inspection of High temperature industrial furnace, such as petrochemical industry, paper pulp & papermaking etc.

#### Features

- High resolution 640x512 pixels
- Wide Temperature Range from 600 to 2000°C targeting electrical and industrial applications
- ±2% Accuracy for reliable temperature measurement
- Thermal imaging through the glass or other transparent medium
- HDMI output
- Capacitive touch screen is easier, productive and effective to operate it
- Lithium polymer Rechargeable Battery lasts >4hrs continuous use; replaceable
- High performance with built-in Linux system

#### Specifications

<b>Imaging and Optical Data</b>	
Field of view (FOV) / Minimum focus distance	22°x 17.6°
Spatial resolution (IFOV)	0.6mrad
Thermal sensitivity/NETD	< 1°C @ +600°C
Image frequency	30Hz
Focus mode	Fixed
Focal length	25mm
Focal Plane Array (FPA) / Spectral range	Wide Dynamic Range CMOS / 0.8-1.1 μm
IR resolution	640 × 512 pixels
<b>Image presentation</b>	
Display	Capacitive Touch screen, 3.5 in. LCD, 640 × 480 pixels
Image modes	IR image
Color palettes	IRON, Rainbow, Grey, GreyInverted, Sepia, Blue_Red, Hot_Cold, Humidity
<b>Measurement</b>	
Object temperature range	600°C to 2000°C (1112°F to +3632°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
<b>Measurement Analysis</b>	
Spotmeter	3
Line	2 lines(horizontal and vertical)
Area	3 boxes with max. /min. /average
Automatic hot /cold detection	Auto hot or cold spotmeter markers
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature
<b>Storage of videos</b>	
Storage media	4Gbytes Micro SD card
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card >60 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images
<b>Storage of images</b>	
Image storage format	Standard JPEG, including measurement data, on memory card >1000 pictures
Image storage mode	IR images
<b>Set-up</b>	
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
<b>Data communication interfaces</b>	
Interfaces	USB-mini, audio, HDMI video, Micro SD slot
USB	Data transform between camera and PC
Video out	HDMI
<b>Power system</b>	
Battery	lithium polymer battery, 4.5 hours operating time
Input voltage	DC 9V to 12V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown and sleep mode (user selectable)

**Size(HxWxD):** 243mm x 103mm x 160mm

**Weight:** 920g

**Accessories:** Lens, Battery, software, USB cable, Gift box.



Model: 740







Model: 9885

CE  
EMC  
EN: 61326-1  
EN: 61010-1

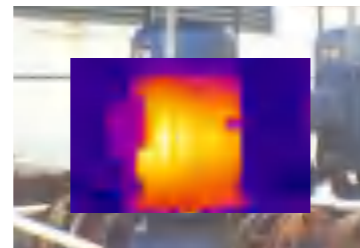
The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, and the thermal image creation is based on the temperature variation. Imager Thermometers provide fast and accurate readings for most surface temperature measurements with TFT color LCD display & Imager Video format. Built for tough work environments, these high-performance, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

Key features

- 384x288 High Performance & high resolution Thermal Imager with TFT color LCD display (9885/9887)
- 160x120 High Performance Thermal Imager with high resolution TFT color LCD display (9873 Series)
- Professional IR-optical focus system ensures that images are in good focus for optimum image clarity and scanning convenience.
- Capture additional measurements fast and conveniently with wireless modules (9887 only)
- Meterbox analysis system—quickly identify and keep track of inspection locations by adding digital images of important information and surrounding areas
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Picture in Picture function Displays thermal image super-imposed over a digital image
- LED Flashlight allows the visual camera and fusion to be used in poorly lit environments
- Wide Temperature Range from -20 to +400°C targeting electrical and industrial applications
- ±2% Accuracy for reliable temperature measurement
- The image rotation has the ability to automatically rotate the active image
- Audio recorded with the video image acts a speaker to listen to audio recorded with the video image
- Capacitive touch screen is easier, productive and effective to operate it
- Lithium polymer Rechargeable Battery lasts >4hrs continuous use; replaceable
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Area (Min/Max) mode shows the Minimum or the Maximum Temperature reading in the selected area
- A conveniently located button activates the laser pointer that will help you associate the hot or cold spot in the thermal image with the real physical target in the field.
- In order to adapt the device to every situation, both wide angle and tele-lenses are available.
- Equipped with standard video, USB outputs as well as a removable SD card.
- The IR video can be streamed to a PC via USB or wifi (DT-9887 only).



Full Infrared



Picture-in-Picture



Color Alarm



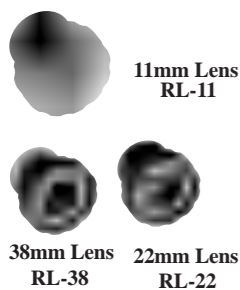
Full visible light



Model: 9887

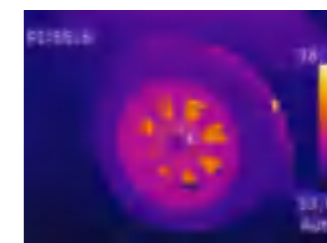
Wi-Fi

Wi-Fi Connectivity/  
Bluetooth Communication



**Size(HxWxD):** 243mm x 103mm x 160mm **Weight:** 920g  
**Accessories:** Hard transport case, 22mm lens, Sun Visor, Tripod base, AC charger/Power supply, Battery, Camera lens cap, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.

Specifications	9871	9873B	9873	9875	9877	9885	9887
<b>Imaging and optical data</b>							
IR resolution	160x120pixels, focal plane array (FPA), uncooled microbolometer	80x80	*	*	*	*	384x288
Field of View (FOV)	29.8° × 22.6°	17°x17°	*	*	*	*	24.6°x 18.6°
Minimum focus distance	0.2m (0.66ft.)	0.3m (0.99ft.)	*	*	*	*	*
Spatial resolution	(IFOV) 3.33 mrad	3.78mrad	*	*	*	*	2.28 mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK	< 0.1°C	*	*	*	*	*
Image frequency	50Hz	*	*	*	*	*	*
Focus	Manual	*	*	*	*	*	*
Zoom	1-20x continuous, digital zoom	*	*	*	*	32x	32x
Rotate	0-360°, continuous change by 1°	*	*	*	*	*	*
<b>Image presentation</b>							
Display	3.5" TFT , capacitive touch screen	*	*	*	*	*	*
Image modes	IR image, visual image, picture in picture	IR image only	*	*	*	*	*
Picture in Picture	IR area on visual image or visual image area on IR	None	*	*	*	*	*
Color palettes	GRAY/GRAY IRON/IRON/RAINBOW/FEATHER	*	*	*	*	*	*
<b>Measurement</b>							
Object temperature range	Low range: -20°C to +150°C (-4°F to +302°F) High range: 0°C to +400°C (+32°F to +752°F)	*	*	*	*	*	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*	*	*	*	*	*
<b>Measurement analysis</b>							
Spotmeter	3	*	*	*	*	*	*
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*	*	*
Emissivity table	Emissivity table of predefined materials	*	*	*	*	*	*
Line	2 lines(horizontal and vertical)	None	*	*	*	*	*
Area	3 boxes with max. /min. /average	None	*	*	*	*	*
Automatic hot /cold detection	Auto hot or cold spotmeter marks	*	*	*	*	*	*
Isotherm	Detect high/low temperature/interval	None	*	*	*	*	*
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature	*	*	*	*	*	*
<b>Set-up</b>							
Laser / floodlight	< class2 / white LED floodlight	None	*	*	*	*	*
Set-up commands	Local adaptation of units, language, date and time formats, information of camera	*	*	*	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*	*	*	*
<b>Storage of videos/images</b>							
Storage media	4Gbytes Micro SD card	*	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	IR image only	*	*	*	*	*
<b>Digital camera</b>							
Built-in visible light digital camera	640x480 Pixels	None	*	*	*	*	*
<b>Data communication interfaces</b>							
USB interfaces	USB-mini, data transform between camera and PC remote control, live video	*	*	*	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	None	*	*	*	*	*
Video out	Composite(PAL and NTSC)	*	*	*	*	*	*
<b>Power system</b>							
Battery	Lithium polymer battery, 4 hours operating time	*	*	*	*	*	*
Input voltage	DC 9V to 12V	*	*	*	*	*	*
Charging system	In camera (AC adapter)	*	*	*	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*	*	*	*
<b>Environmental data</b>							
Encapsulation	IP65	*	*	*	*	*	*
Drop test	2m	*	*	*	*	*	*







Compact design IR resolution 384x288 ( 988A )  
Wi-Fi connectivity

CE EMC  
EN: 61326-1  
EN: 61010-1



Model 988

988 Series new generation High Performance Thermal Imagers are compact design with powerful Auto Fusion mode(AUF), AUF is a dynamic image enhancement-algorithm for infrared cameras. 988 Series are easy to help you to find the potential problems with innovation features and powerful Apps.

**Key features**

- 384x288 High Performance Thermal Imager with high resolution TFT color LCD display (9887)
- 3.5" 640x480 big brilliant touch screen, a clear view from any angle.
- Capture additional measurements fast and conveniently with wireless modules
- Find problems faster and easier with accurately identify potential issues by combining digital and IR images
- Image fusion function displays thermal image super-imposed over a digital image
- An easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.



640x480 3.5" capacitive touch screen	Auto Fusion mode (AUF)	Wi-Fi Connectivity	650°C temperature range	2M visible light digital camera	IP54

Specifications	987	988	9886	9887
<b>Imaging and optical data</b>				
IR resolution	Focal plane array (FPA), uncooled microbolometer			
Field of View (FOV)	21°x15.6°	20.7°x15.6°	40.2°x30.1°	41.5°x31.1°
Spatial resolution (IFOV)	2.26mrad	1.88mrad	2.74mrad	1.89mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK			
Image frequency	25Hz	*	*	*
Focus	Manual			
<b>Image presentation</b>				
Display	3.5" 640x480 touch screen			
Image modes	IR image, visual image, picture in picture, AUF			
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather			
<b>Measurement</b>				
Object temperature range	Low range: -20°C to +150°C (-4°F to +302°F)			
	High range: 0°C to +650°C (+32°F to +1202°F)			
Accuracy	0°C to +450°C (+32°F to +842°F)			
	±2°C (±3.6°F) or ±2% of reading			
<b>Set-up</b>				
Set-up commands	Local adaptation of units, language, date and time formats, information of camera			
Language selection	English, Chinese, French, German, Spanish			
<b>Storage of videos/images</b>				
Storage media	4Gbytes eMMC			
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes			
<b>Digital camera</b>				
Built-in visible light digital camera	2M Pixels			
<b>Data communication interfaces</b>				
USB interfaces	USB-micro, data transform between camera and PC			
	Remote control, live video			
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video			
<b>Power system</b>				
Battery	Lithium polymer battery, 4 hours operating time			
Input voltage	DC 5V			
Charging system	In camera (AC adapter)			

Size(HxWxD): 228mm x 100mm x 98mm Weight: 520g

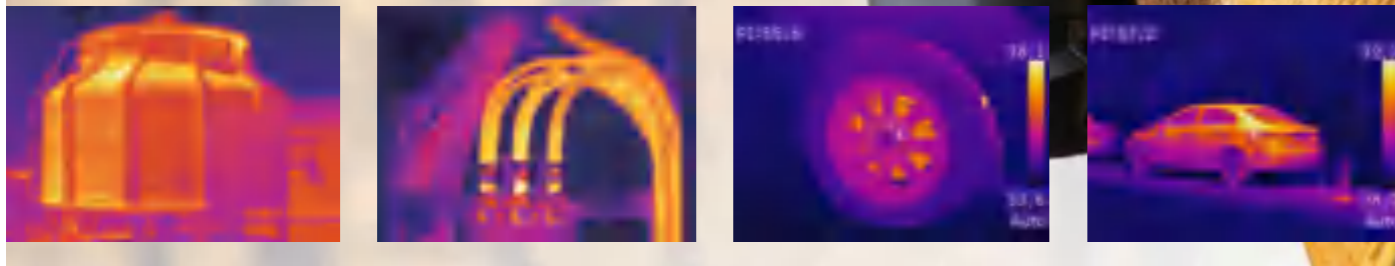
Accessories: Hard transport case, 7.5mm lens, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.



# High Performance Thermal Imagers



EMC  
EN: 61326-1  
EN: 61010-1



## Key features

- 320x240 High Performance Thermal Imager with high resolution TFT screen (986S)
- Smart design with big screen occupation ratio
- Capture additional measurements fastly and conveniently with wireless modules
- Find problems faster and easier and accurately identify potential issues by combining digital and IR images
- Image fusion function displays thermal image super-imposed over a digital image and easy-to-access thumbnail image gallery helps you to quickly review and find your thermal images.
- Powerful Auto Fusion mode(AUF)
- Equipped with standard video, USB outputs as well as a removable SD card.
- Realtime analyse and picture analyse function



Model: 986

Specifications		983	984	985A	986	986S
<b>Imaging and optical data</b>						
IR resolution	Focal plane array (FPA), uncooled microbolometer	80x80	120x90	256x192	220x160	320x240
Field of View (FOV)		21°x21°	50°x38°	80.4°x60.3°	36°x27°	36°x27°
Spatial resolution (IFOV)		4.53mrad	2.74mrad	5.48mrad	3mrad	3mrad
Thermal sensitivity/NETD	< 0.05°C @ +30°C/(+86°F) < 0.1°C/100mK	*	*	*	*	*
Image frequency	9Hz	*	*	*	*	*
Focus	Focus free	*	*	*	*	*
<b>Image presentation</b>						
Display	3.5" 640x480 touch screen	*	*	*	*	*
Image modes	IR image, visual image, picture in picture, AUF	*	*	*	*	*
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather	*	*	*	*	*
<b>Measurement</b>						
Object temperature range	Low range: -20°C to +330°C (-4°F to +302°F)	*	*	*	*	*
Accuracy	±5°C (±3.6°F) or ±3% of reading	*	*	*	*	*
<b>Measurement analysis</b>						
Emissivity adjustable	0.01~1.0 Adjustable	*	*	*	*	*
Automatic hot/cold detection	Auto hot or cold spotmeter marks	*	*	*	*	*
<b>Set-up</b>						
Laser / floodlight	< class2 / white LED floodlight	*	*	*	*	*
Language selection	English, Chinese, French, German, Spanish	*	*	*	*	*
<b>Storage of videos/images</b>						
Storage media	4Gbytes eMMC	*	*	*	*	*
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes	*	*	*	*	*
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	*	*	*	*	*
Storage mode	IR/visual images; simultaneous storage of IR and visual images	*	*	*	*	*
<b>Digital camera</b>						
Built-in visible light digital camera	2M Pixels	*	*	*	*	*
<b>Data communication interfaces</b>						
USB interfaces	USB-micro, data transform between camera and PC	*	*	*	*	*
	Remote control, live video	*	*	*	*	*
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video	*	*	*	*	*
<b>Power system</b>						
Battery	Lithium polymer battery, 4 hours operating time	*	*	*	*	*
Input voltage	DC 5V	*	*	*	*	*
Charging system	In camera (AC adapter)	*	*	*	*	*
Power management	Automatic shutdown and sleep mode (user selectable)	*	*	*	*	*

Size(HxWxD): 228mm x 100mm x 90mm Weight: 520g

Accessories: Hard transport case, 7.5mm lens, Tripod base, AC charger/Power supply, Battery, software CD-ROM, Handstrap, micro SD card, USB cable & RCA cable, Gift box.



The Thermal Imager is designed for Non-contact detection and calculation of apparent surface temperature, fully radiometric imagers are ideal for troubleshooting electrical systems, electro-mechanical equipment, process equipment, HVAC/R equipment and others.

Auto Fusion mode (AUF)  
80x80 pixels, FPA, uncooled microbolometer  
Annotate images with Voice  
Picture in Picture  
32X Continuous Zoom  
5 Megapixels Digital camera

HDMI High resolution video output  
Built-in 100M Memory for 80 pictures or one minute video record  
Wi-Fi connectivity  
Transfers images and data to mobile devices to share reports and critical information quickly



CE  
EMC  
EN: 61326-1  
EN: 61010-1

Thermal Imagers Selection Guide

Model number	DT-982H	DT-982	DT-982RH	DT-980H	DT-980A	DT-980L-8	DT-980	DT-981	DT-981B
IR resolution	160x120	160x120	160x120	80x80	80x80	80x80	80x80	120x160	120x90
Field of View (FOV)	22.6° x 29.8°	22.6° x 29.8°	22.6° x 29.8°	17° x 17°	17° x 17°	8° x 8°	17° x 17°	20.7° x 15.6°	50° x 38°
IIFOV	3.33mrad	3.33mrad	3.33mrad	3.77mrad	3.77mrad	1.79mrad	3.77mrad	2.26mrad	5.48mrad
Display	2.8" 240x320								
Object temperature range	-20~650°C	-20~350°C	-20~350°C	-20~650°C				-20~350°C	
Visible camera	5M (IR fusion, AUF)							2M (IR fusion, AUF)	
WiFi					*			*	*
Video record	*	*	*	*	*	*	*	*	*
Probe air Temp. & %RH			*						



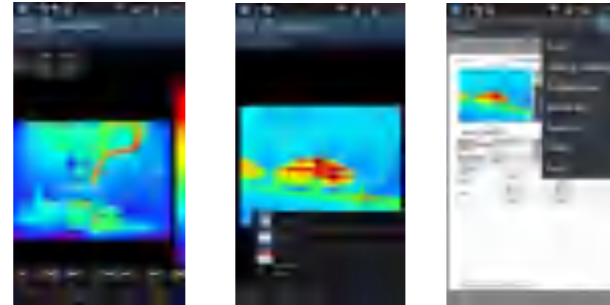
980 (80x80), 982 (160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 980 series have power auto fusion mode which is a dynamic image enhancement-algorithm for infrared cameras. 160 × 120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 650°C (-4°F to 1202°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Wi-Fi connectivity allows the Infrared Thermal Camera to send images and data to mobile devices.



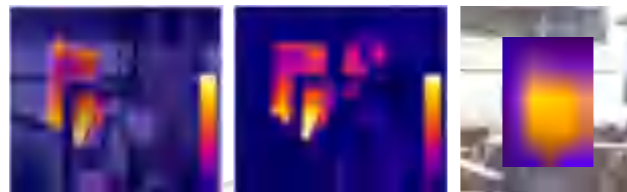
Auto Fusion mode (AUF)  
Realtime Wi-Fi analyse



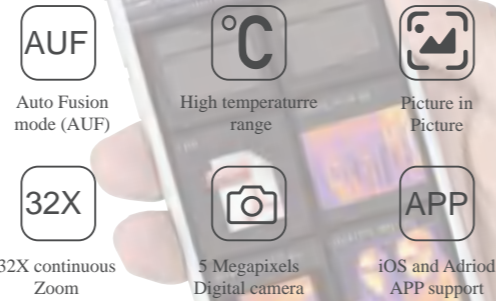
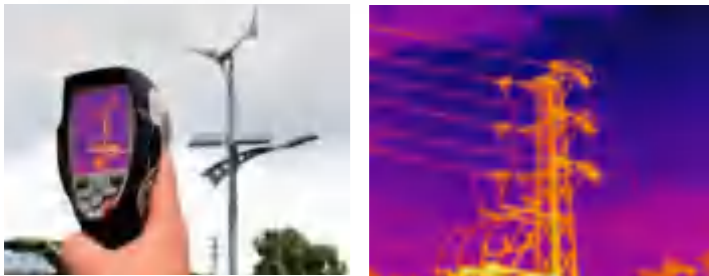
Model: 982



Powerful analyse      Easy Share      Quickly report



Auto Fusion mode (AUF)  
A dynamic image enhancement-algorithm for infrared cameras      Full Infrared      Picture-in-Picture



**Product characteristics**

High Resolution IR Images	19,200 pixels (160x120) Infrared resolution(982)
Visible Light Digital Camera	5 Megapixels Digital camera resolution with flash provides sharp images regardless of lighting conditions
Picture in Picture	Displays thermal image super-imposed over a digital image
LED Flashlight	Allows the visual camera and fusion to be used in poorly lit environments
Wide Temperature Range	From -20 to +650°C targeting electrical and industrial applications
±2% Accuracy	reliable temperature measurement
Thumbnail view	Easy to view and analyze images quickly
Audio recorded with the video image	A speaker to listen to audio recorded with the video image
Li-Ion Rechargeable Battery	>4hrs continuous use; replaceable
HDMI	HDMI High resolution video output
Inside 100M Memory	About 80pictures or one minute video record
Copy to USB	Easy uploads images from camera to USB memory card
Area (Min/Max) Mode	Shows the Minumum or the Maximum Temperature reading in the selected area
Wi-Fi connectivity	Transfers images and data to mobile devices to share reports and critical information quickly (DT-980A/981B/981)
Auto Fusion mode	AUF is a dynamic image enhancement-algorithm for infrared cameras



Model: 980

Model: 981

Model: 980A

Worldwide Patent:  
PCT/CN2016/079015



Wi-Fi Connectivity

Specifications	980B	980/980H	980A	980L-8	981B	981	982/982H
<b>Imaging and optical data</b>							
IR resolution	80×80 pixels	80×80 pixels	80×80 pixels	80×80 pixels	120×160 pixels	120×90 pixels	160×120 pixels
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm						
Focal length	7.5mm	9mm	9mm	19mm	7.5mm	6.2mm	9mm
Field of View (FOV)	21x21°	17x17°	17x17°	8x8°	20.7x15.6°	50x30.8°	22.6x29.8°
Minimum focus distance	0.2m						
Spatial resolution	4.53mrad	3.77mrad	3.77mrad	1.78mrad	2.26mrad	5.48mrad	3.33mrad
Thermal sensitivity/NETD	< 0.08°C / 80mK						
Image frequency	50Hz						
Focus	Manual						
Zoom	1-32x continuous, digital zoom						
<b>Image presentation</b>							
Image modes	IR image, visual image, picture in picture, AUF						
Picture in Picture	IR area on visual image						
Color palettes	IRON/Rainbow/Grey/Grey Inverted						
<b>Measurement</b>							
Object temperature range	-20 to 150°C (-4 to 302°F) 0 to 350°C (32 to 662°F) extended to -20 to 650°C (980H, 982H)						
Accuracy	±2°C (±3.6°F) or ±2% of reading						
<b>Measurement analysis</b>							
Spotmeter	Center Spot, Auto hot or cold markers						
<b>Set-up</b>							
Language selection	English, Chinese, French, German, Spanish						
<b>Storage of videos/images</b>							
Inside Memory / Storage media	100M bytes, 80pictures or one minute video record / 8G Micro SD card						
Video storage format	Standard MPEG-4, 1280x960@30fps, on memory card > 60 minutes						
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures						
<b>Digital camera</b>							
Built-in visible light digital camera	No	5Megapixels; 59°			2Megapixels; 61°		5Megapixels; 59°
<b>Data communication interfaces</b>							
Interfaces & Video output	USB-micro, audio, HDMI						
USB	Data & Live video transform between camera and PC or smartphone						
<b>WIFI</b>							
Live video between device and PC	No	No	Yes	No	Yes	Yes	No
Transfer images and data to mobile devices	No	No	Yes	No	Yes	Yes	No
<b>Power system</b>							
Battery / Input voltage / Laser	Li-ion battery, 4 hours operating time / DC 5V / < 1mW						

Size(HxWxD): 224mm x 77mm x 96mm Weight: 500g  
Accessories: Lens, Earphone(Optional), Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable (Optional), Gift box.



# High Performance Thermal Imagers

890 (120x90), 892(160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 160x120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 450°C (-4°F to 842°F). Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send data to mobile devices.



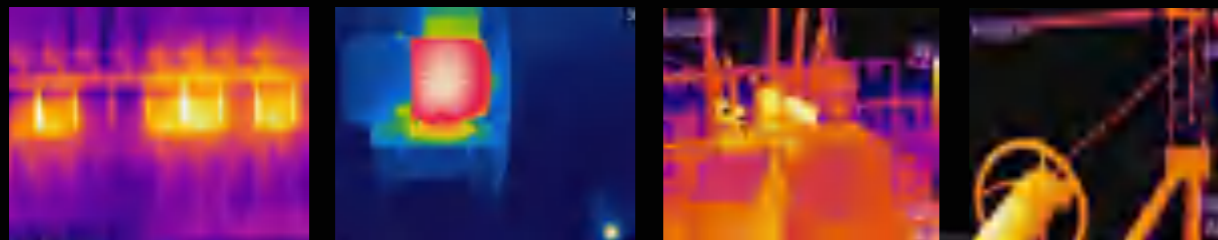
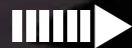
160x120

IR resolution

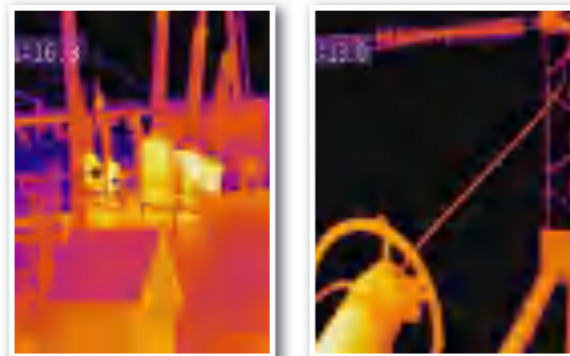
NETD

<0.1°C

Thermal sensitivity  
<0.1°C (0.18°F) @ 30°C



890 (120x90), 892(160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 160x120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 450°C (-4°F to 842°F). Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send data to mobile devices.



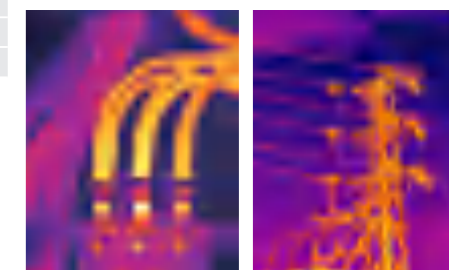
EMC  
EN: 61326-1  
EN: 61010-1



Model: 890



Model: 892



Specifications	890	892
<b>Imaging and Optical Data</b>		
Field of View	21x21	31x23
Spatial Resolution	4.53mrad	* 3.33mrad
NETD	<0.1°C@30°C(80°F)/100mK	* *
Image Frequency	50Hz	* *
Focus Mode	Focus free	* *
Focal Plane Array(FPA)/Spectral Range	Uncooled microbolometer/8-14um	* *
IR Resolution	120x90	160x120
<b>Image Presentation</b>		
Display	2" TFT LCD, 240x320 pixels	* *
Color Palettes	IRON, RainBow, Grey, GreyInverted	* *
<b>Measurement</b>		
Object Temperature Range	-20°C to 450°C (-4°F to 842°F)	* *
Accuracy	±2°C(+/- 3.6°F) or ±2% of reading	* *
<b>Measurement Analysis</b>		
Spotmeter	Center Spot	* *
Automatic Hot/Cold Detection	Auto hot or cold markers	* *
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	* *
<b>Storage of Images</b>		
Storage Media	8 Gbytes Micro SD card	* *
Image Storage format	Bitmap(BMP),including measurement data.	* *
<b>Data Communication Interfaces</b>		
Interfaces	USB-micro, Data transform between camera and PC	* *
Bluetooth		* *
<b>Power System</b>		
Battery	Li-ion battery, 8 hours operating time	* *
Input Voltage	DC 5V	* *
Charging System	In camera(AC adapter)	* *
Power Management	Automatic shutdown	* *
<b>Environmental Data</b>		
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)	* *
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	* *
Humidity(operating and storage)	10% to 90%	* *
Drop test	2m	* *

**Size(HxWxD):** 180mm x 58mm x 70mm  
**Weight:** 480g

**Accessories:** Lens, Battery, software  
CD-ROM, Wrist strap, micro SD card, Adaptor,  
USB cable, Gift box.



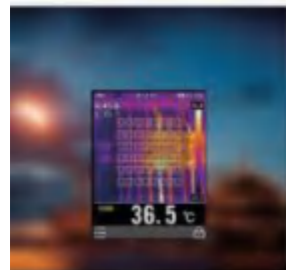
871/870/870L-8 Thermal Imagers are designed to make your work easier, more productive and effective. 80x80 resolution at 50Hz for real-time capture; Temperature range from -20°C to 380°C (-4°F to 716°F). Hot/Cold spot marker automatically finds the hottest and coldest spots. Lithium polymer battery & power supply, and USB cable. Bluetooth connectivity allows the Infrared Thermal Camera to send thermal pictures to mobile devices.

Key features

- 50Hz fast frame rate, fast capture temperature varies
- High temperature range, more application situation
- Simple operate, easy to use
- Smart design, Portable, Small and lightweight to carry with you anywhere
- Durable, withstand up to a 2m drop
- IP54 waterproof level
- Flashlight



EMC  
EN: 61326-1  
EN: 61010-1



6400 true temperature measurement points



Cold spot hotspot automatic capture



Bluetooth transfer data in real time



Imported high quality sensors

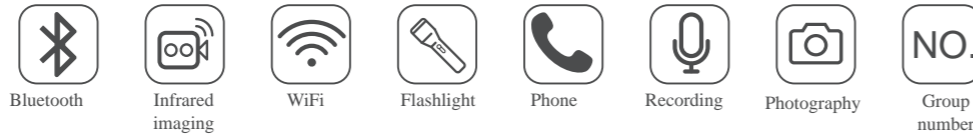


Specifications	871	870	870L-8
<b>Imaging and Optical Data</b>			
Field of View	21x 21°	50x38°	* 8x8°
Spatial Resolution	4.53mrad	5.4mrad	* 1.79mrad
NETD	<0.1°C@30°C(80°F)/100mK	*	*
Image Frequency	50Hz	*	*
Focus Mode	Focus free	*	*
Focal Plane Array(FPA)	Uncooled microbolometer/8-14um	*	*
Spectral Range			
IR Resolution		120x90	80x80 80x80
<b>Image Presentation</b>			
Display	2" TFT LCD, 240x320 pixels	*	* *
Color Palettes	IRON, RainBow, Grey, GreyInverted	*	* *
<b>Measurement</b>			
Object Temperature Range	-20°C to 380°C (-4°F to 716°F)	*	* *
Accuracy	+/- 2°C(+/- 3.6°F) or +/-2% of reading	*	* *
<b>Measurement Analysis</b>			
Spotmeter	Center Spot	*	* *
Automatic Hot/Cold Detection	Auto hot or cold markers		* *
Emissivity Correction	8 pre-define level and Variable from 0.01 to 1.0	*	* *
<b>Storage of Images</b>			
Image Storage format	Bitmap(BMP),including measurement data.		* *
<b>Data Communication Interfaces</b>			
Bluetooth		*	* *
<b>Power System</b>			
Battery	Li-ion battery, 4 hours operating time	*	* *
Input Voltage	DC 5V	*	* *
Charging System	In camera(AC adapter)	*	* *
Power Management	Automatic shutdown	*	* *
<b>Environmental Data</b>			
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)	*	* *
Storage Temperature Range	-40°C to 70°C (-40°F to 158°F)	*	* *
Humidity(operating and storage)	10% to 90%	*	* *
Drop test	2m	*	* *

Size(HxWxD): 175mm x 58mm x 70mm Weight: 450g

Accessories: Battery, APP software, Adaptor, Carrying case, USB cable, Gift box.





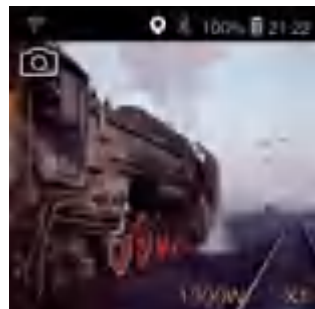
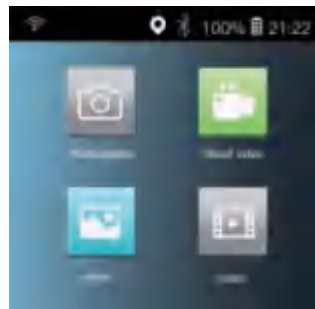
Flashlight with thermal imager, phone function, Bluetooth and WIFI to smartphone/tablet .



CE  
EMC  
EN: 61326-1  
EN: 61010-1

Specifications	
<b>Imaging and optical data</b>	
IR resolution	205x156 focal plane array (FPA), uncooled microbolometer
Field of View (FOV)	36°x27°
Spatial resolution	3mrad (IFOV)
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK
Image frequency	9Hz
Focus	Focus free
<b>Image presentation</b>	
Display	2.4" 320x240 TFT
Image modes	IR image, visual image, picture in picture, AUF
Color palettes	GRAY/GRAY IRON/IRON/RAINBOW/FEATHER
<b>Measurement</b>	
Object temperature range	Low range: -20°C to +330°C (-4°F to +302°F)
Accuracy	±5°C (±3.6°F) or ±3% of reading
<b>Storage of videos/images</b>	
Storage media	4Gbytes eMMC
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures
Storage mode	IR/visual images; simultaneous storage of IR and visual images
<b>Digital camera</b>	
Built-in visible light digital camera	2M Pixels
<b>Data communication interfaces</b>	
USB interfaces	USB-micro, data transform between camera and PC remote control, live video
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video

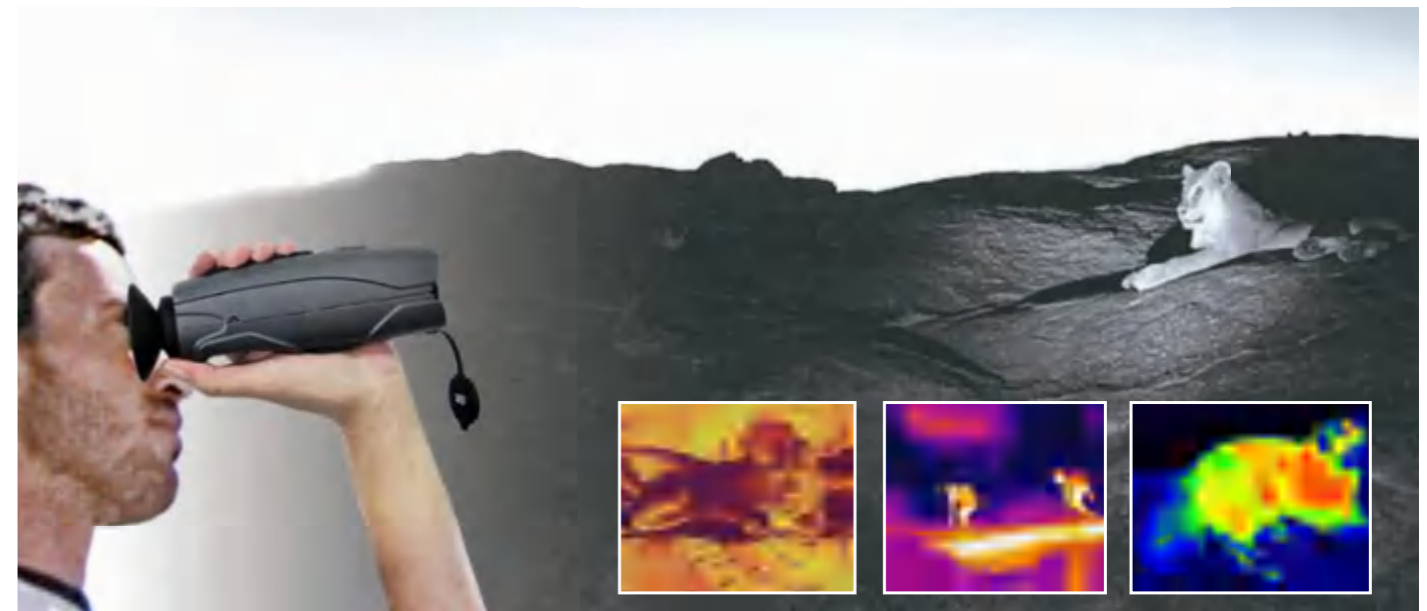
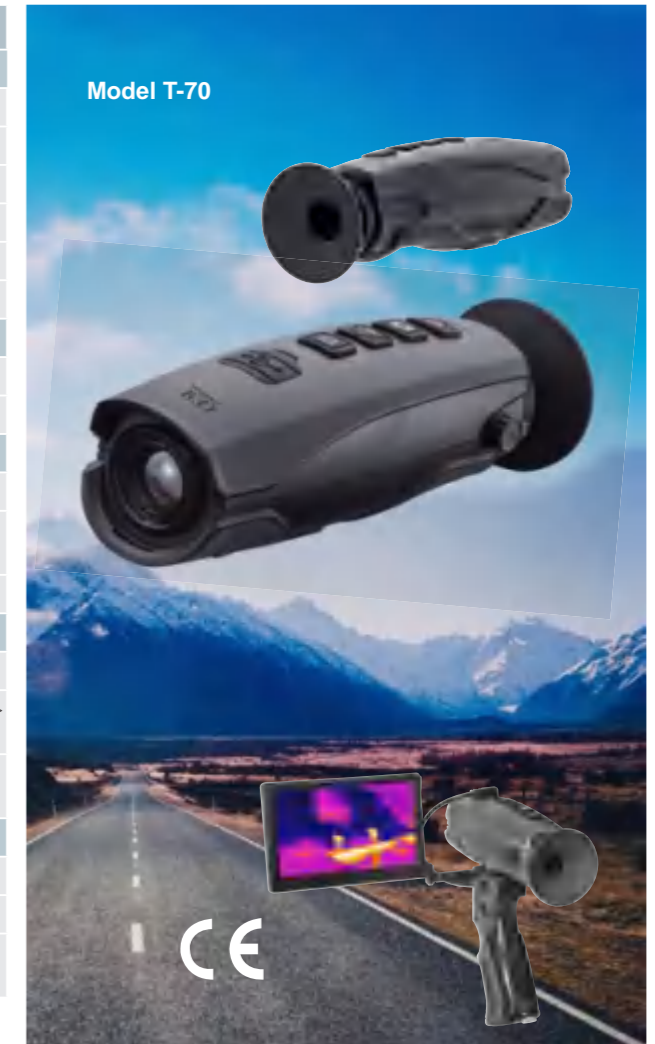
Size(HxWxD): 75 x75 x 258mm Weight: 547g  
Accessories: Infrared camera with lens, CVBS cable, Gift box.



T-70/71/72 Handheld Thermal Vision Monocular provide clear images with high IR resolution, easy access to new features such as video & image recording. WIFI connectivity offer video & image real time share to smartphone/tablet .

Specifications	T-70	T-71	T-72
<b>Imaging and optical data</b>			
IR resolution	80x80	160x120	384x288
Field of View (FOV)	8x8°	29.8°x22.6°	17°x12°
Spatial resolution	1.79mrad (IFOV)	3.78mrad (IFOV)	0.77mrad (IFOV)
Thermal sensitivity/NETD	< 0.05°C @ +30°C (+86°F) / 50 mK		
Image frequency	50Hz		
Len	19mm F1.0		
<b>Image presentation</b>			
Display	1.44" 640x480 EVF		
Color palettes	GREY/GREY IRON/IRON/RAINBOW/FEATHER		
<b>Set-up</b>			
Laser / floodlight	< class2 / white LED floodlight		
Set-up commands	Local adaptation of units, language, date and time formats, information of camera		
Language selection	English, Chinese, French, German, Spanish		
<b>Storage of videos/images</b>			
Storage media	4Gbytes eMMC		
Video storage format	Standard MPEG-4, 640x480@30fps, on memory card > 60 minutes		
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures		
<b>Data communication interfaces</b>			
USB interface	Data transform between camera and PC Remote control, live video		
Wi-Fi connectivity	Wi-Fi connectivity allows to send images and data to mobile devices remote control, live video		

Size(HxWxD): 48 x 50x 180mm Weight: 370g  
Accessories: Gift box.







The 3.5" 640x480 touchscreen LCD offers Auto Fusion function to blend a visible image with an infrared image to more easily locate problems. It can scan the asset's QR code or barcode, help classifying the thermal images into predefined folders. with WiFi function, you can transfer realtime thermal video or images to the smart phone, easily analyse, report and share.

Model T-50F



EMC  
EN: 61326-1  
EN: 61010-1



QR Code Scan



640x480 3.5" capacitive touch screen



Auto Fusion mode (AUF)



160x120 focal plane array (FPA)



Wi-Fi Connectivity



IP54

Specifications

	T-50F	T-60F	T-55	T-65F	T-68
IR resolution	120x90	160x120	206x156	256x192	320x240
Image frequency	25Hz	25Hz	9Hz	25Hz	9Hz
Pixel size	17µm	17µm	12µm	17µm	12µm
Field of view (FOV) / Minimum focus distance	50°x38°/0.5m	34°x23°/0.5m	36°x23°/0.5m	80°x60°/0.5m	36°x23°/0.5m
Object temperature range	-20°C to 150°C (-4°F to 302°F)	-20°C to 150°C (-4°F to 302°F)	-20°C to 330°C (-4°F to 626°F)	-20°C to 400°C (-4°F to 752°F)	-20°C to 330°C (-4°F to 626°F)
	0°C to 400°C (32°F to 752°F)	0°C to 400°C (32°F to 752°F)			
Built-in digital camera	2M				
Display	3.5" 640x480 Capacitive touch screen				
Image modes	IR image, Visual image, Picture in picture, Auto fusion				
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Brown, Blue-red, hot-cold, Feather, Above alarm, Below alarm, Zone alarm, vision zone				
Spot	Center Spot, Three manual spots				
Automatic hot/cold detection	Auto hot or cold markers				
Area	Three areas analyse				
Storage media	3.4GB internal EMMC				
Video storage format	Standard MPEG-4 encode, 640x480@30fps, on memory card				
Image storage format	Standard JPEG, or HIR files including measurement data, on memory card >6000 pictures				
Interfaces	USB type-C				
Wifi	802.11, transfer images and realtime video stream.				
Battery	Li-ion battery, 4 hours operating time				

Size(HxWxD): 80 x 52 x 18mm

Weight: 130g

Accessories: USB cable, Gift box.



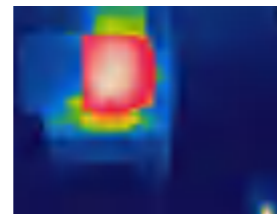
Electrical inspection



Building inspection



wilderness exploration



industrial inspection

Smart Thermview APP Function

- Thermal image snap and record
- Show temperature data at real time.
- Point/Line/Area real-time analysis
- History thermal image analysis
- Export PDF report
- Share thermal image
- Real-time preview the results of 9 color palettes



EMC  
EN: 61326-1  
EN: 61010-1



Model T-25



Model T-10

Specifications

	T-09F	T-10	T-15F	T-20	T-25
Thermal Sensor	120x90	206x156	160x120	320x240	256x192
Field of View	50°x38°/0.5m	36°	21°x16°/0.5m	36°	80°x60°
Frame Rate	25Hz	<9Hz	25Hz	<9Hz	<9Hz
Object Temperature Range	-20°C~400°C	-10°C~330°C	-20°C~400°C	-10°C~330°C	-10°C~330°C
Detection Range	543m	330m	543m	543m	543m
Recognition Range	136m	83m	136m	136m	136m
Identification Range	78m	48m	78m	78m	78m
Photo & Video	*	*	*	*	*
Spot/Line/Area Temperature	*	*	*	*	*
High/Low Temperature	*	*	*	*	*
Threshold Mode	*	*	*	*	*
9 Color Palettes	*	*	*	*	*
Auto Mode	*	*	*	*	*
Auto Emissivity	*	*	*	*	*

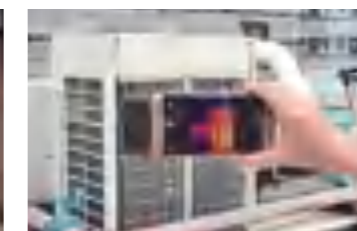
Size(HxWxD): 65 x 26x 16mm

Weight: 80g

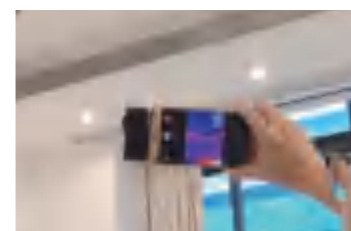
Accessories: Gift box.



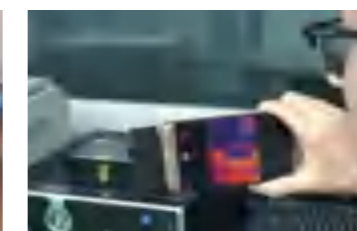
Electrical inspection



HVAC/R



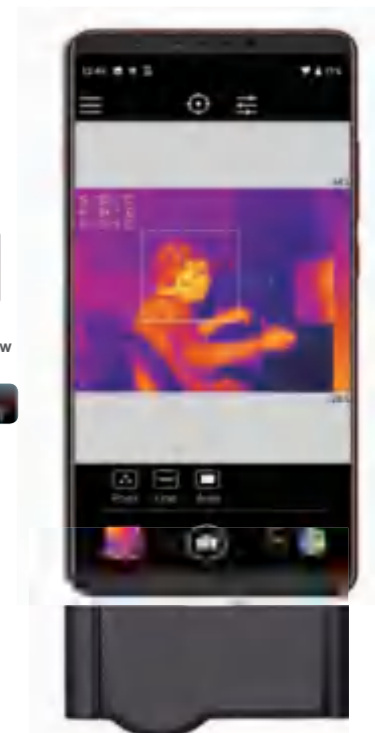
Air conditioning inspection



Machine monitoring



Smart Thermview







Model: UIR80, UIR160

Model: UIR384, UIR640

Specifications	UIR80	UIR160	UIR384	UIR640
<b>Imaging and optical data</b>				
IR Resolution	80x80	160x120	384x288	640x480
Focal Plane Array	Uncooled microbolometer/8~14um			
Field of View	17x17	29.8x22.6	24.6x18.6	24.6x19.8
Focal length	9mm	7.5mm	22mm	22mm
Spatial resolution	3.78mrad	3.33mrad	1.15mrad	0.77mrad
NETD(@25°C,F#1.0)	<0.1°C 100mK	<0.8°C 80mK	<0.5°C 50mK	<0.5°C 50mK
Image Frequency/ Focus	50Hz/ Manual			
<b>Measurement</b>				
Object temperature range	-20 to 150°C (-4 to 302°F) 0 to 350°C (32 to 662°F)			
Accuracy	±2°C (±3.6°F) or ±2% of reading			
<b>Image adjustment</b>				
Color palettes	Grey/Grey Inverted/IRON/Rainbow			
Brightness & contrast adjust	Auto/manual			
Imageing Algorithm	Intelligent image enhancement			
<b>Interfaces</b>				
Video output/ Digital output	Standard PAL/ 16 bit LVCMOS			
Communication interface	RS-232,UART(3.3V)			
Power/ Power consumption	9~12 VDC/ <1.8W @25°C			
<b>Options Lens</b>				
11mm		20.6° x 15.5°	47.1° x 36.2°	
22mm	8° x 8°	10.4° x 7.8°		
33mm		6.9° x 5.2°		
38mm			14.4° x 10.8°	
Size (HxWxD)	48x48x71mm		48x48x83mm	
Weight	178g		193g	

**DT-971S/971H/DB-640 Professional Thermal Imaging Camera**

**Key Features:**

- 100Mbps Ethernet;
- Composite video output, PAL or NTSC
- Standardized security interface design, using H.264 video compression protocol which is easy for system integration
- 50Hz passive infrared imaging ensure the high frame rate security monitor circular around the clock in all kinds of bad weather
- Image enhancement feature highlights the target details, easy to achieve target surveillance and recognition;
- Precise non-contact wide temperature ranges: 600°C to 2000 °C/ 1112 °F to 3632 °F; (DB-640)
- High-dynamic 2D-Si-CMOS array with 640× 512 pixels (DB-640)
- Spectral range 0.8 μm to 1.1 μm (DB-640)

Specifications	971S	971H	DB-640
<b>Imaging and optical data</b>			
Field of view (FOV) / Minimum focus distance	29.8°x 22.6°/0.2m	29.8°x 22.6°/ 0.2m	22° x 17.6°
Special range	8~14 μm	8~14 μm	0.8~1.1 μm
Spatial resolution (IFOV)	3.33mrad	3.33mrad	0.6mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK	< 0.08°C @ +30°C (+86°F) / 80 mK	< 1°C @ +600°C
Image frequency	50Hz		30Hz
Focal length	7.5mm	7.5mm	25mm
IR resolution	160 × 120 pixels	160 × 120 pixels	640 × 512 pixels
Object temperature range	-20 to +150°C (-4 to +302°F) 0 to +400°C (32 to +752°F)	-20 to +150°C (-4 to +302°F) 0 to +400°C (32 to +752°F)	600°C to 2000°C  1112 °F to 3632 °F
Accuracy	±2°C (±3.6°F) or ±2% of reading		2% of reading
Interfaces	composite video		
Video out	composite(PAL and NTSC)		
Input voltage	DC 9V to 12V		DC 5V
Ethernet type, connector type, video streaming	100Mbps, RJ-45, H.264		
Alarm output	2 relay output		
<b>Options Lens</b>			
11mm		(FOV=20.6° x 15.5°)	8mm (FOV=68.8° x 55°)
22mm		(FOV=10.4° x 7.8°)	12mm (FOV=45.8° x 36.7°)
33mm		(FOV=6.9° x 5.2°)	50mm (FOV=11° x 8.8°)
			75mm (FOV=7.3° x 5.9°)

**Size(HxWxD):** 195 mmx115mmx83mm  
**Weight:** 632g

**Accessories:** Infrared camera with lens, CVBS cable, Gift box.



Model: 971S



Model: 971H



EMC  
EN: 61326-1  
EN: 61010-1

CAM80/CAM160/CAM384/CAM640/CAM978/CAM979 have compact structure, small size and light weight which are a solid durable product with high sensitivity, clarity images, precise measurement and flexible operation features. It can meet the demand of non-contact temperature measurement, fast fault detection and thermal field analysis in the field of industrial, electrical, electronics and other industries. CAM979 is combined with Visual and Thermal Imaging function, provides more flexible operation features. The leading end will complete all the image processing and temperature measurement then the analog video can output to a monitor directly.



Model: 979



Model: 978

Specifications	CAM80	CAM160	CAM384/978	CAM640	CAM979
<b>Imaging and optical data</b>					
Field of view (FOV) / Minimum focus distance	17x17°/0.5m	29.8x22.6°/0.2m	24.6°x 18.6°/ 0.5m	24.6°x 19.8°/ 0.3m	29.8°x 22.6°/ 0.2m
Spatial resolution (IFOV)	3.78mrad	3.33mrad	1.14 mrad	0.45	3.33mrad
Thermal sensitivity/NETD	< 0.1°C /100mK	< 0.08°C /80mK	< 0.05°C /50mK	< 0.05°C /50mK	< 0.08°C @ +30°C (+86°F) / 80 mK
Image frequency	50HZ				
Focus mode	Manual				
Focal length	9mm	7.5mm	22mm	38mm	7.5mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8~14 μm				
IR resolution	80x80	160x120	384x288	640x480	160x120
<b>Image presentation</b>					
Image modes	IR image only				IR image, visual image
Color palettes	IRON, Rainbow, Grey, Grey Inverted, Sepia, Blue_Red, Hot_Cold, Humidity				
<b>Measurement</b>					
Object temperature range	-20°C to +150°C (-4°F to +302°F) 0°C to +350°C (+32°F to +662°F)		-20°C to +150°C (-4°F to +302°F) 0°C to +400°C (+32°F to +752°F)		
Accuracy	±2°C (±3.6°F) or ±2% of reading				
<b>Data communication interfaces</b>					
Interfaces	USB, composite video				composite video
USB	Remote control				
Video out	Composite(PAL and NTSC)				
Ethernet type, connector type, video streaming					100Mbps, RJ-45, H.264
Alarm output	2 relay output				
<b>Power system</b>					
Input voltage	DC 9V to 12V				
<b>Options Lens</b>					
11mm		20.6° x 15.5°	47.1° x 36.2°		20.6° x 15.5°
22mm		10.4° x 7.8°			10.4° x 7.8°
33mm		6.9° x 5.2°			6.9° x 5.2°
38mm			14.4° x 10.8°		

**Applications**

- Buildings, factories security monitor circular;
- Border, ports, airports, railway stations and other big visitors flow rate places monitor circular;
- Warehouse fire monitor circular;
- Forest fire monitor circular.



RL-7.5  
7.5mm Lens

RL-33  
33mm Lens      RL-22  
22mm Lens

**Size(HxWxD):** 90mmx74mmx74mm  
130mmx60mmx74mm(978 only)

**Weight:** 1000g

**Accessories:** Infrared camera with lens, CVBS cable, RS485 cable, Network cable, Gift box.



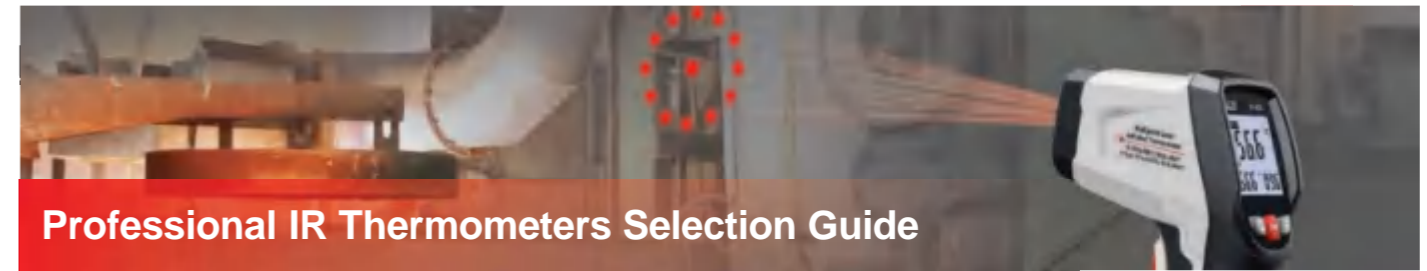


# Non-Contact InfraRed Thermometers



EMC  
EN: 61326  
EN: 60825-1

Infrared thermometers provide non-contact, point-and-shoot temperature measurements ensuring safety and accuracy on the job. With unrivaled distance ratios, offers IR thermometers for every application.



## Professional IR Thermometers Selection Guide



### Professional 32\*32 pixels IR Imager Thermometer

**DT-9868S** is a Professional infrared thermal imager with visible light and 32\*32 pixels IR temperature measurement resolution. It combines the convenience of digital camera with thermal heat map at breakthrough affordability. The blended image eliminates guesswork and tells you the exact location of the issue.



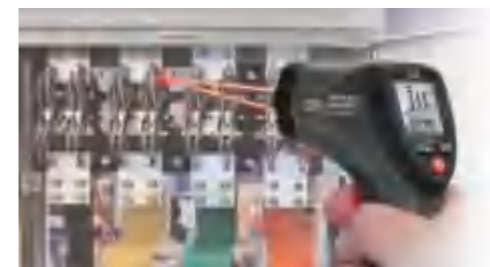
### Professional IR Video Thermometers with TFT color LCD display & Camera function

**DT-9860S/9861S/9862S** Professional Infrared Video Thermometers with 2.2" color TFT LCD display & a microSD memory card for capturing Circular images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements. The measurement of dewpoint will be very visible for wet and dry proof. These serials products are with international patent and good hand for industrial measurements and data analyzing.



### Professional High Temperature InfraRed Thermometers

**DT-8867H/8868H/8869H** Have widest temperature range up to 2200°C and 75: 1 high distance to target ratio measures smaller surface areas at greater distances. They have 150ms faster sampling time with 1% accuracy, providing much faster, easier and accurate readings for most surface temperature measurements with dual laser pointers.



### Professional InfraRed Thermometers with Dual Laser targeting

**DT-8862** Series dual-laser IR temp gun accurately detects temperatures at far distances, and the 100-millisecond response time enables faster hot spot scanning.



### Heavy Duty Professional InfraRed Thermometers with Circular Laser Targeting

**DT-835/836** Have IP54 rated for dust/water proof and 3 m (9.8 ft) drop tested, provide Hi and Lo temperature alarms for rapid display of measurements outside the limits, with Type K probe and Circular Laser Targeting, offer 150ms faster sampling time.





IR resolution  
120x90 pixels



Thermal sensitivity  
0.06°C (0.10°F)



**9870H** is a professional InfraRed 120 x 90 pixels imager thermometer with a single point infrared thermometer and 2.4" color TFT LCD display, 120x90 pixels Imagers & a microSD memory card for capturing Circular images(JPG) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurement.

**Applications**

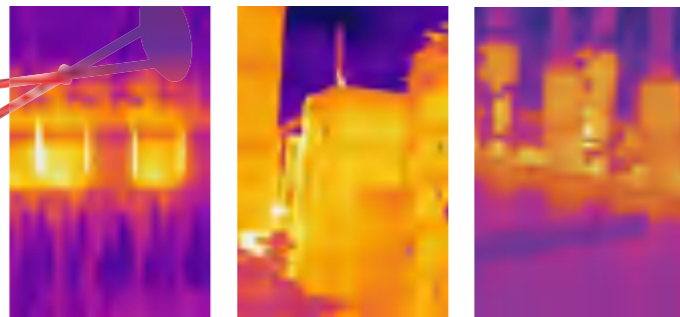
- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment



EMC  
EN: 61326  
EN: 60825-1



Model: 9870H



**Features**

	9870H
IR temperature measurement resolution	120x90
2.4" TFT 320x240 Pixels color LCD display	*
Single point infrared temperature	*
Dual laser targeting	*
2 million pixel video camera	*
Image capture frequency	30Hz
Thermal sensitivity (NETD)	≤60 mK
Hot Spot and Cold Spot Tracking	*
Visual camera & images capture(JPEG)	*
Micro SD memory card	*
Date/time setup controls, adjustable emissivity & trigger lock	*
Li-ION rechargeable battery	*
USB interface to smartphone / PC.	*
Language selection: English, Chinese, French, German, Italian	*

**Specifications**

<b>Imaging and optical data</b>	
IR resolution	120 x 90 pixels
Thermal sensitivity (NETD)	60 mK
Image frequency	30Hz
Object temperature range	-20°C to 400°C (-4°F to 752°F)
Basic accuracy	±2°C (±3.6°F) or ±2% of reading
Field of View	50° x 38°
Color palettes	GREY/GREY IRON/ IRON/RAINBOW
<b>Detector data</b>	
Detector type	VOX microbolometer
Spectral range	8-14µm
<b>Single point infrared thermometer</b>	
Temperature range	-50°C to 1200°C (-58°F to 2192°F)
D:S	50:1
Basic accuracy	±1°C (±1.8°F) or ±1% of reading
Response Time	Less than 150ms
Emissivity adjustable	0.10-1.0 Adjustable
Micro SD memory card	MAX. support 8GB
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures

**Size(HxWxD):** 125mm x 58mm x 205mm **Weight:** 414g

**Accessories:** 3.7V Li battery, USB cable, Carrying case and Gift box



IR resolution  
32x32 pixels

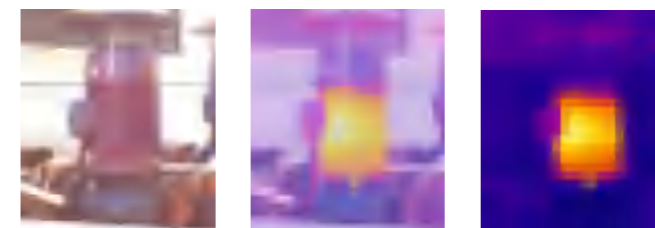


Thermal sensitivity  
0.10°C (0.18°F)



**9868S** is a Professional InfraRed 32x32 pixels Imager Thermometer with 2.2" color TFT LCD display, 32x32 pixels Imagers & a microSD memory card for capturing Circular images(BMP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements.

**9868H** is an InfraRed 32x32 pixels Imager Thermometer with 2.4" color TFT LCD display, which is with Single point infrared temperature and 2 million pixel video camera.



25% visual      50% blend      75% blend

9868S combines the convenience of digital camera with thermal heat map at breakthrough affordability. The blended image eliminates guesswork and tells you the exact location of the issue.



EMC  
EN: 61326-1  
EN: 61010-1



Model: 9868S

**Features**

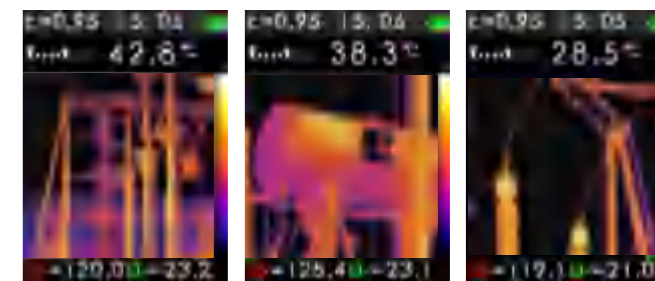
	9868S	9868H
IR temperature measurement resolution	32x32	32x32
2 million pixel video camera		*
640*480 pixel video camera	*	
Single point infrared temperature		*
2.2" TFT 320x240 Pixels color LCD display	*	
2.4" TFT 320x240 Pixels color LCD display		*
Image Capture Frequency 9Hz	*	*
Thermal Sensitivity (NETD)	100 mK	100 mK
Hot Spot and Cold Spot Tracking	*	*
Visual Camera & Images Capture(BMP)	*	*
MicroSD memory card	*	*
Date/time setup controls, Adjustable emissivity & trigger lock	*	*
Li-ion rechargeable battery	*	*
USB interface to smartphone / PC.	*	*
Language selection: English, Chinese, French, German, Italia	*	*

**Specifications**

<b>Imaging and optical data</b>	
Thermal sensitivity (NETD)	100 mK
Image frequency	9Hz
<b>Detector data</b>	
Detector type	Uncooled hyper-thin pyroelectric ceramic
Spectral range	8-14µm
IR resolution	32 x 32 pixels
Object temperature range	-20°C to 600°C (-4°F to 1112°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading
Spotmeter	Center spot
Emissivity adjustable	0.10-1.0 Adjustable
<b>Single point infrared thermometer</b>	
Temperature range	-50°C to 1000°C (-58°F to 1832°F) (9868H)
D:S	50:1(9868H)
Basic accuracy	±1°C (±1.8°F) or ±1% of reading (9868H)
Response Time	Less than 150ms (9868H)
Micro SD memory card	MAX. support 8GB
Field of View	33° x 33°
Color palettes	GRAY/GRAY IRON/ IRON/RAINBOW
Image storage format	Standard BMP, including measurement data, on memory card > 1000 pictures

**Size(HxWxD):** 125mm x 58mm x 205mm **Weight:** 404g

**Accessories:** 3.7V Li battery, USB cable, Carrying case and Gift box







EMC  
EN: 61326-1  
EN: 61010-1



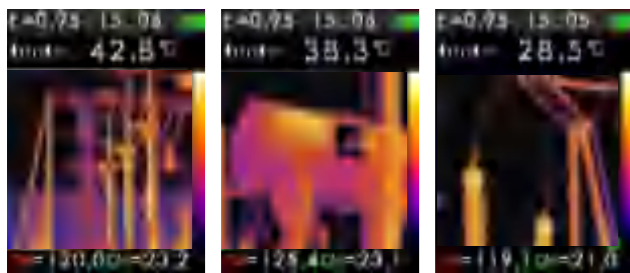
IR resolution  
120x90 pixels



Thermal sensitivity  
0.06°C (0.10°F)

Model 877H

877H Series are Professional InfraRed 120x90 pixels Imager Thermometers with 2.4" color TFT LCD display, 120x90 pixels Imagers providing fast, easy and accurate readings for most surface temperature measurements with cloud service.



Size(HxWxD): 210mm x 60mm x 123mm

Weight: 410g

Accessories: 3.7V Li battery, USB cable, Carrying case and Gift box

Features	877H	876H
IR temperature measurement resolution	120x90	32x32
Single point infrared thermometer	*	*
Circular laser targeting	*	*
2.4" TFT 320x240 Pixels color LCD display	*	*
2 million pixel video camera	*	*
Image capture frequency	30Hz	9Hz
Thermal sensitivity (NETD)	≤60 mK	≤100 mK
Hot Spot and Cold Spot Tracking	*	*
Visual camera & images capture(JPEG)	*	*
Micro SD memory card	*	*
Date/time setup controls, adjustable emissivity & trigger lock	*	*
Li-ION rechargeable battery	*	*
Optical Resolution	50:1	30:1
USB interface	*	*
Language selection: English, Chinese, French, German, Italian	*	*

Specifications	877H	876H
<b>Imaging and optical data</b>		
Object temperature range (32x32)	-20°C to 600°C (-4°F to 1112°F) (876H)	
Object temperature range (120x90)	-20°C to 400°C (-4°F to 752°F) (877H)	
Basic accuracy	±2°C (±3.6°F) or ±2% of reading	
Field of View	50° x 38° (877H) / 33° x 33° (876H)	
Color palettes	GREY/GREY IRON/ IRON/RAINBOW	
<b>Detector data</b>		
Detector type	VOX microbolometer(877H) Uncooled hyper-thin pyroelectric ceramic(876H)	
<b>Single point infrared thermometer</b>		
Temperature range	-50°C to 800°C -58°F to 1472°F	-50°C to 600°C (-58°F to 1112°F)
D:S	50:1	30:1
Basic accuracy	±1°C (±1.8°F) or ±1% of reading	
Response Time	Less than 150ms	
Emissivity adjustable	0.10~1.0 Adjustable	
Micro SD memory card	MAX. support 8GB	
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures	

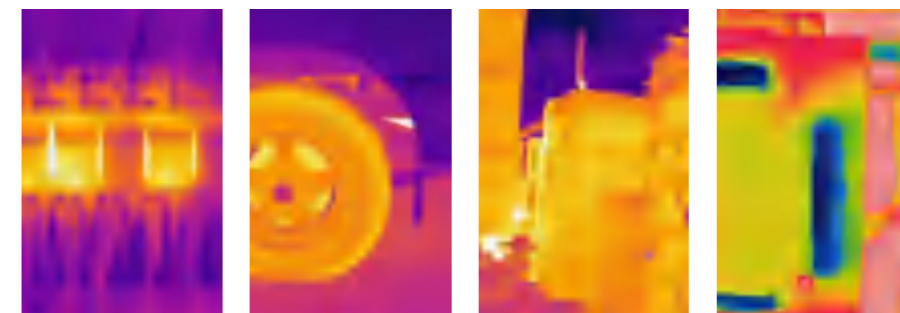
867/867B are the Professional InfraRed 32x32 pixels Imager Thermometers with 2.0" color TFT LCD display, 32x32 pixels Imagers for capturing images(BMP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements.

Features
2.0" TFT 320x240 Pixels color LCD display
IR temperature measurement with resolution 32x32 pixels
Image Capture Frequency 7Hz
Thermal Sensitivity (NETD) ≤100 mK
Hot Spot and Cold Spot Tracking
Visual Camera & Images Capture(BMP)
Date/time setup controls, Adjustable emissivity & trigger lock
Li-ION rechargeable battery (867 only)
3x "AAA" batteries (867B only)
USB interface to PC.
Language selection: English, Chinese
IP54 waterproof level

Specifications	
<b>Imaging and optical data</b>	
Thermal sensitivity (NETD)	0.10°C (0.18°F) @ 1Hz and 100°C
Image frequency	7Hz
<b>Detector data</b>	
Detector type	Uncooled hyper-thin pyroelectric ceramic
Spectral range	8~14μm
IR resolution	32 × 32 pixels
Display	2.0" TFT 320x240 pixels color LCD display
<b>IR temperature Measurement</b>	
Object temperature range	-20°C to +600°C (-4°F to +1112°F)
Accuracy	±3°C (±5.4°F) or ±2% of reading
Spotmeter	Center spot
Emissivity adjustable	0.10~1.0 Adjustable
Field of View	33° x 33°
Color palettes	GREY/GREY IRON/ IRON/RAINBOW
Image storage format	Standard BMP, including measurement data, on drive > 100 pictures

Size(HxWxD): 175mm x 58mm x 70mm      Weight: 350g

Accessories: 3.7V Li battery (867), 3x "AAA" batteries (867B), USB cable, Carrying case and Gift box



2.2" TFT Color LCD display

32x32 Pixels IR images



EMC  
EN: 61326-1  
EN: 61010-1

Model 867B





Professional InfraRed Video Thermometers with TFT color LCD display & Imager Video format

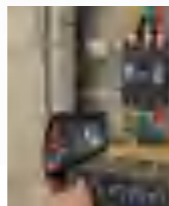
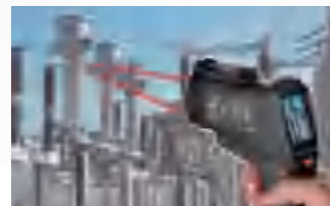


Cloud Server

Worldwide Patent:  
PCT/CN2010/000230  
200910189276.8  
200920261924.1



EMC  
EN: 61326  
EN: 60825-1



Upload images and videos to a PC or laptop for further analysis or use for report documentation.

Dual laser targeting & D:S = 50:1

Fold reading on the images

High accuracy (1.0%) measurement

Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment



2.2" TFT color LCD display



Support **Images**(JPEG) capture capabilities



Support **Video**(3GP) capture capabilities



Support **IR, K-Type, Air, Dewpoint, Wet bulb Temp. & Air Humidity** measurement



Dual laser targeting



Date/Time setup controls



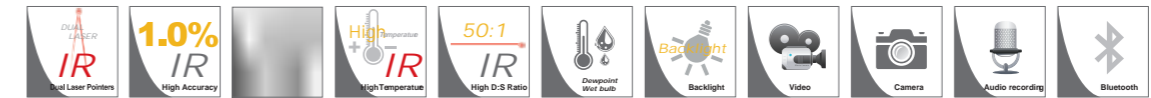
USB interface



Data Logger



Support **MicroSD** memory card extension



2.2" TFT Color LCD display

9860S/9861S/9862S Series Professional Infrared Video Thermometers with 2.2" color TFT LCD display & a microSD memory card for capturing Circular images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for most surface temperature measurements. The measurement of dewpoint will be very visible for wet and dry proof. These serials products are with international patent and good hand for industrial measurements and data analyzing. The user can be back in office to analyze the measured Infrared temperature readings under the support of software.

Capture Circular images(JPEG) 50 : 1 distance to spot size

Features

- 2.2" Color TFT LCD and Built-in 640 x 480 Camera With a microSD card for capturing images (JPEG) and video (3GP) for viewing on your PC
- Dual laser indicates ideal measuring distance where the two laser points converge to a 1" target spot
- Fast 150 millisecond response time
- Color bargraph for viewing trends
- Type K Thermocouple input
- Air Temperature and Relative Humidity measurement
- Adjustable emissivity increases measurement accuracy for different surfaces
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- MAX/MIN/AVG/DIF functions
- Trigger lock function for continuous readings
- USB interface
- Auto power off
- Double molded housing

Specifications

	9860S	9861S	9862S
IR Temp. Range	-50°C to 1000°C -58°F to 1832°F	-50°C to 1600°C -58°F to 2912°F	-50°C to 2200°C -58°F to 3992°F
Response Time	Less than 150ms		
Resolution	0.1° up 1000°, 1° over 1000°		
Basic Accuracy (IR)	±1.0% of reading		
Optical Resolution	50:1 Distance to Spot size		
Emissivity Adjustable	0.10~1.0 Adjustable		
Type K Temp. Range	-50°C to 1370°C /-58°F to 2498°F		
Basic Accuracy (TK)	±0.5% of reading ±1°C		
Micro SD memory card	MAX. support 8GB		
Air Temp Range	0 to 50°C/32 to 122°F		
Air Temp Basic Accuracy	±0.5°C/1°F		
Humidity Range	0 to 100%RH		
Humidity Basic Accuracy	±2.5%RH(20%~80%RH)		
Dew Point Temp. Range	0 to 50°C/32 to 122°F		
Wet Bulb Temp. Range	0 to 50°C/32 to 122°F		

Size(HxWxD): 125mm x 58mm x 205mm  
Weight: 494g

Accessories: 3.7V Li battery, Type K Temp. probe, USB cable, Carrying case and Gift box



EMC  
EN: 61326-1  
EN: 61010-1

Worldwide Patent:  
PCT/CN2010/000230  
200910189276.8  
200920261924.1

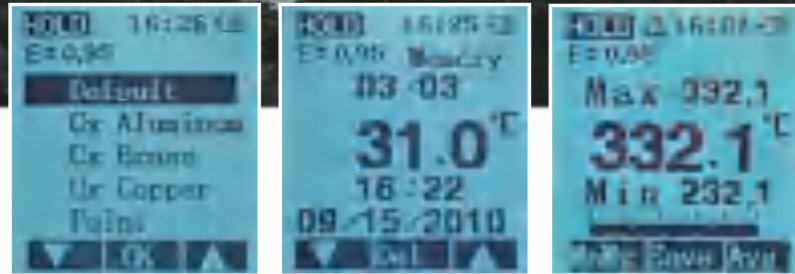
Model 9860S





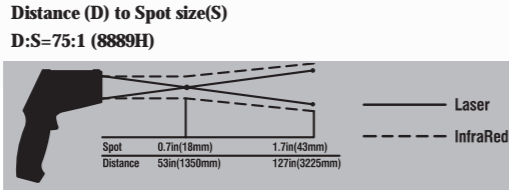


- 75: 1 distance to spot size
- Dual laser pointers
- 150ms faster sampling time
- 1% accuracy
- Reading memory



Adjustable Emissivity      Data Record      Fast measurement with high accuracy

- Features**
- Graphic white and black LCD display
  - Max, Min, DIF, AVG record & trigger lock
  - High / low alarm
  - Auto Power Off
  - Adjustable emissivity
  - Type K input
  - Memory data with Date/Time stamp (30 points)
  - USB interface
  - Datalog (Only 8879/8889H)
  - Wireless interface (Only 8879/8889H)



Model 8889/8889H



Thermistor clamp      TCP-100

Specifications	8878	8879	8889	8889H
IR Temp. Range	-50°C to 1200°C/ -58°F to 2192°F	-50°C to 1600°C/ -58°F to 2912°F	-50°C to 1850°C/ -58°F to 3362°F	-50°C to 2200°C/ -58°F to 3992°F
Response Time	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms
Resolution	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°
Basic Accuracy (IR)	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading
Optical Resolution	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	75:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0
Type K Temp. Range	-50°C to 1370°C/ -58°F to 2498°F	-50°C to 1370°C/ -58°F to 2498°F	-50°C to 1370°C/ -58°F to 2498°F	-50°C to 1370°C/ -58°F to 2498°F
Basic Accuracy (TK)	±0.5% of reading	±0.5% of reading	±0.5% of reading	±0.5% of reading
Readings memories	30	30	30	30
Datalog		*	*	*
Wireless interface(433Mhz)		*	*	*
Bluetooth interface			*	*

**Size(HxWxD):** 204mm x 155mm x 52mm      **Weight:** 320g  
**Accessories:** 9V battery, USB Cable, Tripod, Software, Type-K temperature probe, Carrying case and Gift box

8867H/8868/8868H/8869/8869H Series provide much faster, easier and accurate readings for most surface temperature measurements with Dual laser pointers. Two laser points converge to a single spot when the unit is at the optimal distance from the object being measured.

- 150ms faster sampling time with 1% accuracy
- High 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- Widest temperature range
- Unique flat surface, modern housing design
- Built-in dual laser pointers for accurate targeting
- Automatic Data Hold & Trigger Lock
- Max, Min, DIF, AVG record
- High and low temp. alarm
- Emissivity Digitally adjustable from 0.10 to 1.0
- USB interface
- Compatible with all standard connector Type K thermocouples

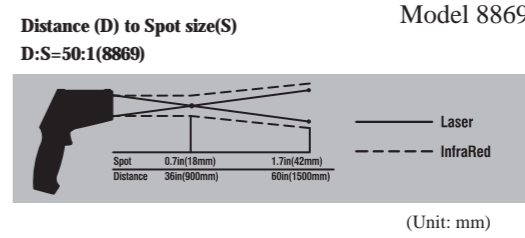


- 150ms faster sampling time
- 1% accuracy
- Reading memory

- 50 : 1 distance to spot size
- Dual laser pointers

CE  
EMC  
EN: 61326  
EN: 60825-1

- Features**
- User selectable °C or °F
  - Dual Laser targeting
  - Automatic Data Hold
  - Auto Power Off
  - White backlit LCD display
  - Overrange indication
  - High temperature
  - Max, Min, DIF, AVG record
  - High / low alarm, Trigger lock
  - Adjustable emissivity
  - Reading memory (8868/8869/8868H/8869H)
  - Type K input
  - USB interface



Specifications	8867H	8868	8869	8868H	8869H
IR Temp. Range	-50°C to 1650°C -58°F to 3002°F	-50°C to 1200°C -58°F to 2192°F	-50°C to 1600°C -58°F to 2912°F	-50°C to 1850°C -58°F to 3362°F	-50°C to 2200°C -58°F to 3992°F
Response Time	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms	Less than 150ms
Resolution	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°
Basic Accuracy (IR)	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading	±1.0% of reading
Optical Resolution	30:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0	Adjustable 0.10~1.0
Type K Temp. Range	-50°C to 1370°C -58°F to 2498°F	-50°C to 1370°C -58°F to 2498°F	-50°C to 1370°C -58°F to 2498°F	-50°C to 1370°C -58°F to 2498°F	-50°C to 1370°C -58°F to 2498°F
Basic Accuracy (TK)	±1.5% of reading	±1.5% of reading	±1.5% of reading	±1.5% of reading	±1.5% of reading
Readings memories		99	99	99	99

**Size(HxWxD):** 204mm x 155mm x 52mm      **Weight:** 320g  
**Accessories:** 9V battery, USB Cable, Tripod, Software, Type-K temperature probe, Carrying case and Gift box



**Applications**

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage



EMC  
EN: 61326  
EN: 60825-1



8857 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright circular laser. Even in the dark, the display is easy to read with the quality backlight.



- 150ms faster sampling time with 1% accuracy
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature

**Features**

	8857	8857H
User selectable °C or °F	*	*
Circular laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Trigger lock for continuous use	*	*
Max, MIN, DIF, AVG display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Type-K input	*	*
Bluetooth interface	*	*

**Specifications**

	8857	8857H
IR Temp. Range	-50°C to 1000°C	-50°C to 1200°C
	-58°F to 1832°F	-58°F to 2192°F
Response Time	Less than 150ms	
Resolution	0.1° up 1000°, 1° over 1000°	
Basic Accuracy (IR)	±1.0% of reading	
Optical Resolution	30:1 Distance to Spot size	40:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	
Type K Temp. Range	-50°C to 1370°C/-58°F to 2498°F	
Basic Accuracy (TK)	±1.5% of reading	
Readings memories	99	
Spectral Response	8-14µm	

**Size(HxWxD):** 170mm x 50mm x 95mm    **Weight:** 248g

**Accessories:** 2x1.5V“AAA”batteries, Type K Probe, Carrying case and Gift box.



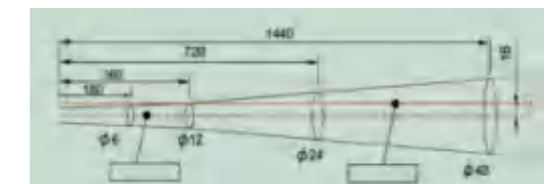
EMC  
EN: 61326  
EN: 60825-1

Model 8857



Model 8857H

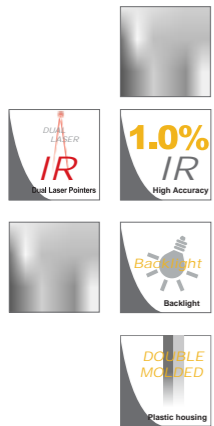
**Distance (D) to Spot size(S)**  
**D:S=30:1**



(Unit: mm)



# Professional InfraRed Thermometers with Dual Laser targeting



Fast response time 0.15 sec.

Built-in Dual Laser Pointers focus target (calibrated distance)  
High accuracy(1.0%) measurement

Triple LCD display indicates Reading, Max reading and Emissivity at same time.  
High contrast LCD with white backlight

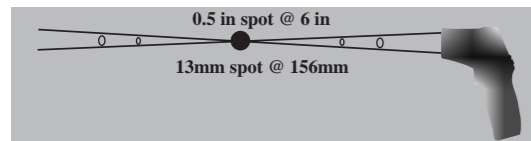
Double molded housing design



CE  
EMC  
EN: 61326  
EN: 60825-1

Model 8862B

Distance (D) to Spot size(S)  
D:S=12:1



(Unit: mm)

Features	8862B	8863B
User selectable °C or °F	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Trigger lock for continuous use	*	*
Max display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Optical Resolution	12:1	20:1
Red backlight & beeper alarm	*	*

Specifications	8862B	8863B
IR Temp. Range	-50°C to 650°C -58°F to 1202°F	-50°C to 800°C -58°F to 1472°F
IR Temp. Resolution	0.1° up to 1000°, 1° over 1000°	
Emissivity	Adjustable 0.10~1.0	
Basic Accuracy	±1.0% of reading	
Response Time	Less than 150ms	
Spectral response	8-14µm	

Size(HxWxD): 146mm x 104mm x 43mm Weight: 163g  
Accessories: 9V battery, Carrying case and Gift box.

## Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage



Red backlight alert



Triple LCD display with white backlight



Worldwide Patent:  
PCT/CN2012/082197

- 150ms faster sampling time
- 1% accuracy

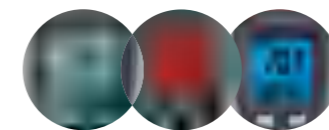
- Dual laser pointers



Model 8862



CE  
EMC  
EN: 61326  
EN: 60825-1



### Key Benefits

- Green, Red & Blue backlight: Normal, Higher & Lower temperature indications



Model 8862C



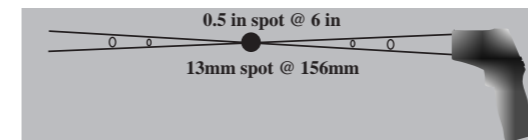
Model 8863/8865

Features	8860L	8860B	8861B	8861	8862	8862C	8862MAX+	8863	8865
User selectable °C or °F	*	*	*	*	*	*	*	*	*
Dual laser targeting	Single laser	Single laser	*	*	*	*	*	*	*
Automatic Data Hold	*	*	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*	*
White Backlit LCD Display	*	*	*	*	*	*	*	*	*
Overrange indication	*	*	*	*	*	*	*	*	*
Trigger lock for continuous use	*	*	*	*	*	*	*	*	*
Max display	*	*	*	*	*	*	*	*	*
High and low alarm	*	*	*	*	*	*	*	*	*
Adjustable emissivity	*	*	*	*	*	*	*	*	*
Optical Resolution	12:1	12:1	12:1	12:1	12:1	12:1	12:1	20:1	30:1
Green, Red & Blue backlight: Normal, Higher & Lower temperature indications							*		
Negativity display						*			

Specifications	8860L	8860B/8861B	8861	8862/8862C	8862MAX+	8863	8865
IR Temp. Range	-50°C to 500°C -58°F to 932°F	-50°C to 450°C -58°F to 842°F	-50°C to 550°C -58°F to 1022°F	-50°C to 650°C -58°F to 1202°F	-50°C to 800°C -58°F to 1472°F	-50°C to 800°C -58°F to 1472°F	-50°C to 1000°C -58°F to 1832°F
Emissivity	Fix 0.95	Adjustable 0.10~1.0					
IR Temp. Resolution	0.1° up to 1000°, 1° over 1000°						
Basic Accuracy	±2.0% of reading	±1.0% of reading					
Response Time	Less than 1s	Less than 150ms					
Spectral Response	8-14µm						

Size(HxWxD): 146mm x 104mm x 43mm Weight: 163g  
Accessories: 9V battery, Carrying case and Gift box.

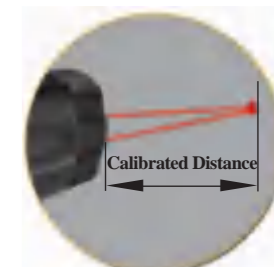
Distance (D) to Spot size(S)  
D:S=12:1



(Unit: mm)



Triple LCD display with white backlight



Accurate Measurement



High Quality Lens & Dual laser pointers





CE

EMC  
EN: 61326  
EN: 60825-1

**Applications**

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage



Circular laser pointers

150ms faster sampling time  
1% accuracy

8875/8876 Compact Infrared Thermometers provide much faster and more accurate readings for Infrared Temperature, Dew-point Temperature & Humidity.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature, dew-point temperature & humidity.

**Features**

	8875	8876
User selectable °C or °F	*	*
Dual laser targeting	*	*
Circular laser targeting		*
Automatic Data Hold	*	*
Auto Power Off	*	*
White backlit LCD display	*	*
Overrange indication	*	*
MAX, MIN, DIF, AVG display	*	*
K- Type input		*
Adjustable emissivity	*	*
Optical resolution	16:1	20:1
Red backlight & beeper alarm	*	*

**Specifications**

	8875	8876
IR Temp. Range	-50°C to 850°C -58°F to 1562°F	-50°C to 1000°C -58°F to 1832°F
IR Temp. Resolution	0.1° up to 1000°, 1° over 1000°	
Emissivity	Adjustable 0.10~1.0	
Basic Accuracy	±1.0% of reading	
Response Time	Less than 150ms	
Spectral response	8-14µm	

**Size(HxWxD):** 190mm x 55mm x 110mm      **Weight:** 263g  
**Accessories:** 9V battery, Carrying case and Gift box.



Triple LCD display with white backlit



Red backlight alert



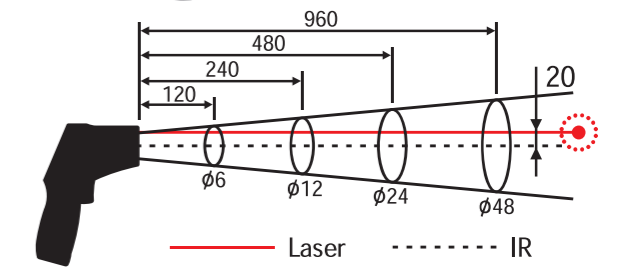
CE

EMC  
EN: 61326  
EN: 60825-1

Model 8876



Model 8875



Distance: Spot=20:1



# Professional InfraRed Thermometers with Circular Laser targeting



Fast response time 0.15 sec.



Built-in Circular Laser Pointers focus target (calibrated distance)



Triple LCD display indicates infrared temperature, dew-point temperature & humidity readings.



Double molded housing design



### Applications

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage



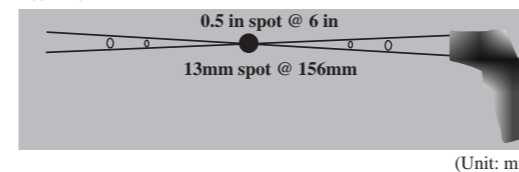
8870/8870B/8870V/8871/8872/8873 Series compact Infrared Thermometers provide much faster and more accurate readings for Infrared Temperature, Dew-point Temperature & Humidity.

- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomical design: Perfectly design for more suitable handheld
- Distance to spot: Precise laser technology allows more accurate and repeatable measurements
- Alarm: Hi and Lo alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature, dew-point temperature & humidity.



EMC  
EN: 61326  
EN: 60825-1

Distance (D) to Spot size(S)  
D:S=12:1



• Circular laser pointers

• 150ms faster sampling time



Model 8870B



Model 8873

Features	8870	8870B	8870V	8871	8872	8873
User selectable °C or °F	*	*	*	*	*	*
Circular laser targeting	*	Single laser	Dual laser	*	*	Dual laser
Automatic Data Hold	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
White Backlit LCD Display	*	*	*	*	*	*
Max/Min display			*			
Dew-point temperature alarm	*			*	*	*
Adjustable emissivity	*		*	*	*	*
Optical resolution	12:1	12:1	12:1	16:1	20:1	30:1
Dew-point temperature & humidity readings	*			*	*	*
Bluetooth interface		*				*
Memory data with Date/Time stamp		200 points				200 points

Specifications	8870	8870B	8870V	8871	8872	8873
IR Temp. Range	-50°C to 500°C -58°F to 932°F	-50°C to 380°C -58°F to 716°F	-50°C to 500°C -58°F to 932°F	-50°C to 800°C -58°F to 1472°F	-50°C to 800°C -58°F to 1472°F	-50°C to 1000°C -58°F to 1832°F
IR Temp. Resolution	0.1° up to 1000°, 1° over 1000°					
Basic Accuracy	±2.0% of reading					
Spectral Response	8-14µm					
Response Time	< 150ms	< 400ms	< 500ms	< 150ms		
Humidity	0~100% RH			0~100% RH		
Air Temp.	-20~50°C/ -4~122°F			-20~50°C/ -4~122°F		
Dew Point Temp.	-20~50°C/ -4~122°F			-20~50°C/ -4~122°F		
Emissivity	Adjustable 0.10~1.0					
Humidity Accuracy	±3%RH(20%~80%RH)					

Size(HxWxD): 165mm x 45mm x 85mm      Weight: 163g

Accessories: 9V battery, Carrying case and Gift box.







835 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright circular laser. Even in the dark, the display is easy to read with the quality backlight.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for infrared temperature

Features	835	835A/835C	836	836A/836C
User selectable °C or °F	*	*	*	*
Circular laser targeting	*	*	*	*
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
White Backlit LCD Display	*	*	*	*
Overrange indication	*	*	*	*
Trigger lock for continuous use	*	*	*	*
Max, MIN, DIF, AVG display	*	*	*	*
High and low alarm	*	*	*	*
Adjustable emissivity	*	*	*	*
Type-K input	*	*	*	*
Negativity display		*/colorful		*/colorful
Optical resolution	16:1	16:1	20:1	20:1

Specifications	835/835A/835C	836/836A/836C
IR Temp. Range	-50°C to 800°C	-50°C to 1000°C
	-58°F to 1472°F	-58°F to 1832°F
Response Time	Less than 150ms	
Resolution	0.1° up 1000°, 1° over 1000°	
Basic Accuracy (IR)	±1.0% of reading	
Optical Resolution	16:1 Distance to Spot size	20:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0	
Type K Temp. Range	-50°C to 1370°C/-58°F to 2498°F	
Basic Accuracy (TK)	±1.5% of reading	
Spectral Response	8-14µm	

**Size(HxWxD):** 170mm x 50mm x 95mm **Weight:** 248g  
**Accessories:** 2x1.5V“AAA”batteries, Type K Probe, Carrying case and Gift box.



CE  
EMC  
EN: 61326  
EN: 60825-1

Model 835



Model 836A



Model 835C



833 Series Professional IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects are easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlight.

- 150ms faster sampling time with 1% accuracy
- Dust and water-proof: IP54 rated for dust/water proof
- Rugged: 3 m (9.8 ft) drop tested
- Ergonomically designed: Completely redesigned for a more natural hand fit
- Distance to spot: Precise laser technology makes for more accurate and repeatable measurements
- Alarm: Hi and Lo temp. alarms for rapid display of measurements outside the limits
- Accurate readings for Infrared Temperature

Features	833	833A/833C
User selectable °C or °F	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Max, MIN, DIF, AVG display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Negativity display		*/colorful
Optical resolution	12:1	12:1

Specifications	
IR Temp. Range	-50°C to 650°C -58°F to 1202°F
IR Temp. Resolution	0.1° up to 1000°, 1° over 1000°
Emissivity	Adjustable 0.10~1.0
Basic Accuracy	±1.0% of reading
Response Time	Less than 150ms
Spectral Response	8-14µm

**Size(HxWxD):** 170mm x 50mm x 85mm **Weight:** 238g  
**Accessories:** 2x1.5V“AAA”batteries, Carrying case and Gift box.



CE  
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EN: 61326  
EN: 60825-1

Model 833



Model 833C





Worldwide Patent:  
PCT/CN2012/082197

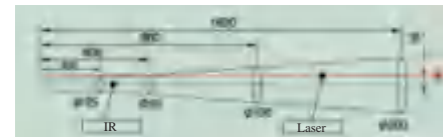


EMC  
EN: 61326  
EN: 60825-1

Model 811/812

Distance (D) to Spot size(S)

D:S=8:1



(Unit: mm)

810/810B/811/812 Series Low cost mini IR Thermometers provides non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit.

- Unique flat surface, mini modern housing design
- Temperature measurements from -50.0°C to 500°C/-58.0°F to 932°F (812)
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Max / Min record
- User selectable °C or °F
- Overrange indication
- Auto Data Hold when trigger released

Features	810/810B/811/812
User selectable °C or °F	*
Laser targeting	*
Automatic Data Hold	*
Auto Power Off	*
White Backlit LCD Display	*
Overrange indication	*
Max / Min record	*

Specifications	810	810B	811	812
Range	-30°C to 260°C -22°F to 500°F	-50°C to 500°C -58°F to 932°F	-30°C to 380°C -22°F to 716°F	-50°C to 500°C -58°F to 932°F
Basic Accuracy	±2% of reading or ±2°C/±4°F			
Resolution	0.1°C/°F			
Response Time	Less than 1 second			
Optical Resolution	8:1 Distance to Spot size			
Emissivity	Fixed at 0.95			

Size(HxWxD): 131mm x 96mm x 35mm Weight: 130g  
Accessories: 9V battery, Carrying case and Clamshell.

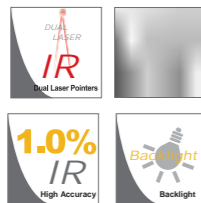
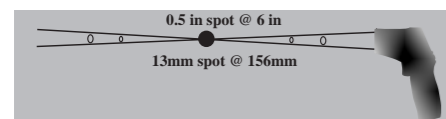
DT-820/820B/820V/821/822 12:1/20:1 InfraRed Thermometers



Model 822

Distance (D) to Spot size(S)

D:S=12:1



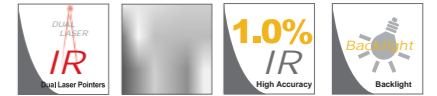
820/820B/821/822/ Series mini IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit.

Features	820B	820V	820/821	822
User selectable °C or °F	*	*	*	*
Targeted scanning for higher/lower temperature			*	*
Dual laser targeting	*	Single Laser	*	*
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Negativity display			*	*
Overrange indication	*	*	*	*
Max / Min record	*	*	*	*
Bluetooth				*

Specifications	820B	820V	820	821	822
Range	-50°C to 500°C -58°F to 932°F	-50°C to 500°C -58°F to 932°F	-50°C to 500°C -58°F to 932°F	-50°C to 650°C -58°F to 1202°F	-50°C to 800°C -58°F to 1472°F
Distance to Spot size	10:1	12:1	12:1	12:1	20:1
Response Time	Less than 1s		Less than 150 ms		
Basic Accuracy	±2.0% of reading		±1.0% of reading		
Resolution	0.1°C/°F				
Emissivity	Fixed at 0.95				

Size(HxWxD): 131mm x 96mm x 35mm Weight: 130g

Accessories: 9V battery, Carrying case and Clamshell (Unit: mm)



827/827V mini IR Thermometers provide non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. It allows you to read the measured data in dim environment with backli

Features	827	827V
User selectable °C or °F	*	*
Dual laser targeting	Single Laser	*
Automatic Data Hold	*	*
Auto Power Off	*	*
Negativity display		*
Overrange indication	*	*
MAX/MIN/DIF/AVG display	*	*
High/Low temp. alarm/record	*	*
Backlight	*	*
Color LCD display		*
Adjustable emissivity	*	*

Specifications	827	827V
Temperature Range	-50°C to 500°C/-58°F to 932°F	-50°C to 760°C/-58°F to 1400°F
Distance to Spot size	12:1	
Response Time	Less than 500ms	
Accuracy	±2% or ±2°C (3.6°F)	
Resolution	0.1°C/°F	
Emissivity	Adjustable 0.10~1.0	

Size(HxWxD): 131mm x 96mm x 35mm Weight: 130g  
Accessories: 9V battery, Carrying case and Clamshell.

DT-830/831 InfraRed Thermometers

830 IR Thermometer provides non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects become easy with the bright laser beam. It allows you to read the measured data in dim environment with backli

Features	830	831
User selectable °C or °F	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
White Backlit LCD Display	*	*
Overrange indication	*	*
Max, MIN, DIF, AVG display	*	*
High and low alarm	*	*
Adjustable emissivity	*	*
Optical resolution	*	*

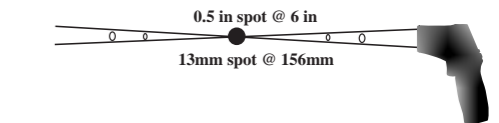
Specifications	830	831
IR Temp. Range	-35°C to 500°C/-31°F to 932°F	-35°C to 650°C/-31°F to 1202°F
IR Temp. Resolution	0.1°C/°F	
Distance to Spot size	12:1	
Emissivity	Adjustable 0.10~1.0	
Basic Accuracy	±2.0% of reading	
Response Time	Less than 1s	
Spectral Response	8-14µm	

Size(HxWxD): 170mm x 50mm x 85mm Weight: 238g  
Accessories: 2x1.5V“AAA”batteries, Carrying case and Gift box.



Model 827V

Distance (D) to Spot size(S)  
D:S=12:1



(Unit: mm)



Model 830



EMC  
EN: 61326  
EN: 60825-1





Model 8818V



Model 8859V

50 : 1 distance to spot size (8839V/8859V)

High Temperature 1600°C (2912°F)

- High 50 to 1 distance to target ratio measures smaller surface areas at greater distances (8839V/8859V)
- Widest temperature range from -50.0 to 1600°C /-58.0 to 2912°F (8859V)
- Unique flat surface, modern housing design
- Built-in laser pointer
- Automatic Data Hold
- Max, Min, DIF, AVG record
- High and low temperature alarm
- Adjustable emissivity
- 8818V/8819V Optical Resolution is 16:1 Distance to Spot size



EMC  
EN: 61326  
EN: 60825-1

Features	8818V	8819V	8829V	8839V	8859V
User selectable °C or °F	*	*	*	*	*
Laser targeting	*	*	*	*	*
Automatic Data Hold	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Backlit LCD Display	*	*	*	*	*
Overrange indication	*	*	*	*	*
High Temperature	*	*	*	*	*
Max, Min, DIF, AVG record	*	*	*	*	*
High and low alarm	*	*	*	*	*
Adjustable emissivity	*	*	*	*	*
Trigger lock	*	*	*	*	*

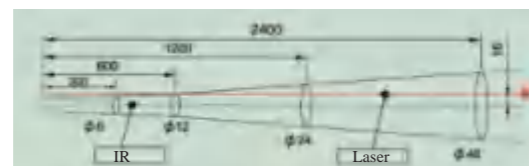
Specifications	8818V	8819V	8829V	8839V	8859V
Range	-50°C to 750°C (-58°F to 1382°F)	-50°C to 1000°C (-58°F to 1832°F)	-50°C to 1000°C (-58°F to 1832°F)	-50°C to 1000°C (-58°F to 1832°F)	-50°C to 1600°C (-58°F to 2912°F)
	16:1 Distance to Spot size	30:1 Distance to Spot size	30:1 Distance to Spot size	50:1 Distance to Spot size	50:1 Distance to Spot size
Emissivity	Adjustable 0.1~1.0				
Response Time	Less than 1 second				
Resolution	0.1° C/°F				
Basic Accuracy	± 1.5% of reading or ± 2°C/± 4°F				

Size(HxWxD): 220mm x 120mm x 56mm Weight: 290g

Accessories: 9V battery, Carrying case and Gift box

Distance (D) to Spot size(S)

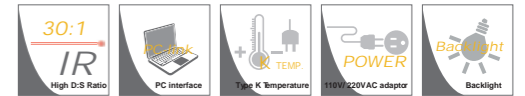
D:S=50:1



(Unit: mm)



8856 compact Infrared Thermometers provide fast, easy and accurate readings for most surface temperature measurements with Wireless USB Interface (RF 433MHz)



Features	
User selectable °C or °F	*
Built-in dual laser pointers focus target	*
Automatic Data Hold	*
Auto Power Off	*
White backlit LCD display	*
Fast response time 0.15 sec.	*
Trigger lock	*
Max, Min, DIF, AVG record	*
High and low alarm	*
Adjustable emissivity	*
Type K temperature measurement	*
High temperature	1050°C/1922°F
Wireless USB interface(RF 433MHz)	*
Optical resolution (Distance to Spot size)	30:1
Specifications	
IR Temp. Range	-50°C to 1050°C/ -58°F to 1922°F
IR Temp. Resolution	0.1° up to 2000°, 1° over 2000°
Optical Resolution	30:1 Distance to Spot size
Type K Temp. Range	-50°C to 1370°C/ -58°F to 2498°F
Type K Temp. Resolution	0.1° up to 2000°, 1° over 2000°
Response Time	Less than 150ms
Basic Accuracy	±1.5% of reading
Emissivity	Adjustable 0.10~1.0

- 30 : 1 distance to spot size
- IR thermometer with type K temperature measurement
- Dual laser pointers
- Wireless USB Interface(RF 433MHz)
- 20 Points Memory



Size(HxWxD): 180mm x 106mm x 48mm Weight: 250g

Accessories: 9V battery, Carrying case and Gift box, type K temperature probe, RF transmitter, power supply, tripod, CD Software.



DT-8830V/8833V/8835V Professional InfraRed Thermometers with Type K Input

Features	8830V	8833V	8835V
User selectable °C or °F	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White backlit LCD display	*	*	*
Overrange indication	*	*	*
Trigger lock	*	*	*
Max, Min, DIF, AVG record	*	*	*
High and low alarm	*	*	*
Adjustable emissivity	*	*	*
Type K temperature measurements	*	*	*
Max. temperature	500°C/ 932°F	800°C/ 1472°F	1050°C/ 1922°F
Optical resolution	13:1		30:1

Specifications	8830V	8833V	8835V
IR Temp. Range	-50 to 500°C -58 to 932°F	-50 to 800°C -58 to 1472°F	-50 to 1050°C -58 to 1922°F
Optical Resolution	13:1		30:1
IR Temp. Resolution	0.1°C/°F		
Type K Temp. Range	-50°C to 1370°C/-58°F to 2498°F		
Type K Temp. Resolution	0.1° up to 2000°, 1° over 2000°		
Response Time	Less than 1 second		
Basic Accuracy	±1.5% of reading		
Emissivity	Adjustable 0.10~1.0		

Size(HxWxD): 180mm x 106mm x 48mm Weight: 250g

Accessories: 9V battery, Carrying case, clamshell and type K temperature probe

8830V/8833V/8835V compact Infrared Thermometers provide fast, easy, and accurate readings for most surface temperature measurements with Type K Input and 20 Points Memory.

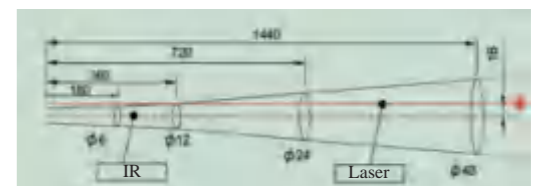
- IR Thermometer with Type K Input and 20 Points Memory

30 : 1 distance to spot size

Worldwide Patent:  
PCT/CN2012/082197

Distance (D) to Spot size(S)

D:S=30:1



(Unit: mm)



EMC  
EN: 61326  
EN: 60825-1

Model 8835V





Worldwide Patent:  
PCT/CN2012/082197



Model 8866

8866 compact Infrared Thermometer provides much faster, easy, and accurate readings for most surface temperature measurements.

Two laser points converge to a single spot when the unit is at the optimal distance from the object being measured.

Features	
User selectable °C or °F	
Dual laser targeting	
Automatic Data Hold	
Auto Power Off	
White Backlit LCD Display	
Overrange indication	
Trigger lock	
Max / Min display	
High and low alarm	
Adjustable emissivity	
800°C/1472°F High Temperature	
12:1 Optical Resolution (Distance to Spot size)	

Specifications	
IR Temp. Range	-35°C to 800°C -31°F to 1472°F
IR Temp. Resolution	0.1°C/°F
Optical Resolution	12:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0
Basic Accuracy	±1.0% of reading
Response Time	Less than 300ms
Spectral Response	8-14µm

Size(HxWxD): 160mm x 82mm x 42mm Weight: 177g  
Accessories: 9V battery, Carrying case and Gift box

DT-880V/882V/883V Compact InfraRed Thermometers



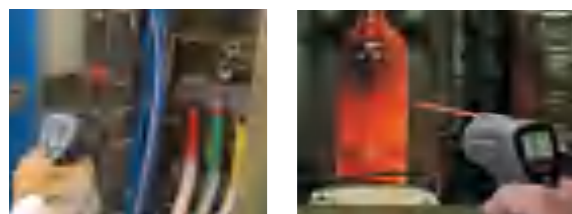
Model 880V

880V/882V/883V Compact IR Thermometer provides non-contact temperature measurements: Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen Printing, Measure ink and dryer temperature, Diesel and Fleet maintenance. Targeting objects are easy with the bright laser beam. Even in the dark, the display is easy to read with the quality backlit scroll.

Features	880V	882V	883V
User selectable °C or °F	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Auto Power Off	*	*	*
White Backlit LCD Display	*	*	*
Overrange indication	*	*	*
Adjustable emissivity	*	*	*
Max / Min record	*	*	*
High Temperature	*	*	*
High and low alarm	*	*	*

Specifications	880V	882V	883V
Range	-50°C to 380°C -58°F to 716°F	-50°C to 500°C -58°F to 932°F	-50°C to 850°C -58°F to 1562°F
Optical Resolution (D:S)	12:1 Distance to Spot size		
Response Time	Less than 1 second		
Resolution	0.1°C/°F		
Basic Accuracy	± 2% of reading or ± 2°C/± 4°F		

Size(HxWxD): 160mm x 82mm x 42mm Weight: 177g  
Accessories: 9V battery, Carrying case and Gift box.



8662/8663 series Infrared Dewpoint Temperature Detectors are very visible for wet and dry proof. The green LED light will change to yellow and red when reading close to Dewpoint Temperature. It provides faster sampling time and high accuracy, widely applied in steel, oil & chemical, stove, environment testing, calibration lab, gas production industry etc.

Features	8662	8663
User selectable °C or °F	*	*
Dual laser targeting	*	*
Automatic Data Hold	*	*
White Backlit LCD Display	*	*
Trigger lock for continuous use	*	*
Max display	*	*
Optical Resolution	12:1	20:1

Specifications	8662	8663
IR Temp. Range	-50°C to 260°C / -58°F to 500°F	-50°C to 380°C / -58°F to 716°F
IR Temp. Resolution	0.1°	
Emissivity	0.95	
Temp. Basic Accuracy	±1.0% of reading	
Response Time	Less than 150ms	
Spectral response	8-14µm	
Humidity	0~100% RH	
Humidity Accuracy	±2.5% RH(20%~80% RH)	
Dew Point Temp.	-30~100°C/ -22~199°F; Basic Accuracy: ±2.0% of reading	
Wet Bulb Temp.	-30~100°C/ -22~199°F; Basic Accuracy: ±2.0% of reading	

Size(HxWxD): 82mm x 58mm x 168mm  
Weight: 163g  
Accessories: 9V battery, Carrying case and Gift box.



Worldwide Patent:  
PCT/CN2012/082197



Green LED Normal Yellow LED Close to Dewpoint Red LED Dewpoint

DT-8666/8666H Thermal Leak Detector with Audible Alarm

Features	8666	8666H
Optical Resolution	10:1	20:1
Threshold for light color transition( off, 1°F, 5°F, 10°F)	*	
Auto-set base temperature for reference	*	
Single laser targeting	*	*
Fixed Emissivity at 0.95	*	*
°C / °F Switchable	*	*
Beeper alarm, Green, Red & Blue light alarm: Normal, Higher & Lower temperature indications	*	*

Specifications	8666	8666H
Temperature Range	-35 to 800°C/-31 to 1472°F	*
Temperature Range	-50 to 380°C/-58 to 716°F	*
Temperature accuracy	±1.0% of reading ±2 °C/°F	*
Response Wavelength range	8-14um	*
Resolution	0.1°C/°F	*
Emissivity	Adjustable 0.10~1.0	Fixed at 0.95
Response Time	< 500ms	*

Size(HxWxD): 183mm x 131mm x37mm Accessories:  
Weight: 220g 9V battery, Carrying case and Gift box.



Higher temperature Located with Red LED indicator Normal Temperature with Green LED indicator Lower temperature Located with blue LED indicator



8666/8666H Thermal Leak Detector is visible for higher/lower temperature. It permits targeted scanning to find higher/lower temperature with continuous audible alarm.



Model 8666

- High accurate measurements to 1.0%
- Fast response time 0.5sec
- White Backlit LCD Display

Model 8666H

CE  
EMC  
EN: 61326  
EN: 60825-1



Worldwide Patent:  
PCT/CN2012/082197



Model 8665

• 150ms faster sampling time  
• 1% accuracy

• Dual laser pointers



Normal Temperature with Green LED indicator



Higher temperature Located with Red LED indicator



Lower temperature Located with blue LED indicator

8665 Infrared Temperature Finder is visible for higher/lower temperature. It permits targeted scanning to find higher/lower temperature with continuous audible alarm. It provides faster sampling time and higher accuracy, widely applicant in industrial and environment field.

- Targeted scanning for higher/lower temperature
- The position of higher/lower temperature can be precisely found.
- Enables you to work with certainty for Fault diagnosis
- The Audible will alarm when temperature is changed with switchable audible of higher/lower temperature
- LCD display with new target graphics
- Easy keypad operation

**Features**

T-Sound: Changeable beeper indication by Temperature  
 User selectable °C or °F  
 Dual laser targeting  
 Automatic Data Hold  
 Auto Power Off  
 White Backlit LCD Display  
 Overrange indication  
 Trigger lock for continuous use  
 Max/Min display  
 20:1 distance to target ratio measures smaller surface areas at greater distances  
 Green, Red & Blue backlight: Normal, Higher & Lower temperature indications

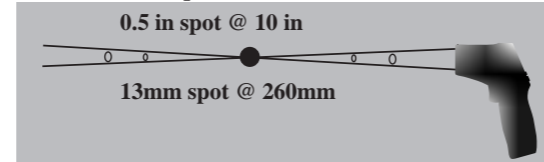
**Specifications**

IR Temp. Range	-50°C to 380°C -58°F to 716°F
IR Temp. Resolution	0.1°
Emissivity	Fixed at 0.95
Temp. Basic Accuracy	±1.0% of reading
Response Time	Less than 150ms
Spectral Response	8-14µm



EMC  
EN: 61326  
EN: 60825-1

Distance (D) to Spot size(S) D:S=20:1



(Unit: mm)

Size(HxWxD): 82mm x 58mm x 168mm  
Weight: 163g

Accessories: 9V battery, Carrying case and Gift box.



869U 4-in-1 Thermometer features a non-contact IR Thermometer, UV Leak Detector, bright Flashlight, and a unique coaxial Distance-to-Spot laser.



- Non-contact IR Thermometer measures temperature up to 500°C (932°F)
- UV Leak Detector with 5 UV/Blue LEDs (460-470nm)
- Coaxial laser displays a circular set representation of the target area
- Programmable High/Low Temperature set points with audible and visual alarm
- Adjustable emissivity for better accuracy on different surfaces
- MAX/MIN/AVG/DIF displays
- Bright flashlight with 5 white LEDs
- Automatic data hold when trigger is released
- Auto Power off
- Complete with two AA batteries

**Specifications**

IR Temperature	-50°C to 500°C (-58 to 932°F)
Resolution	0.1°C/°F
Accuracy	±1.5% rdg or ±3°F/±1.5°C whichever is greater
Distance to Target ratio	12:1
Emissivity	0.10 to 1.00 (adjustable)
Repeatability	±0.8% rdg or ±2°F/±1°C whichever is greater
Dimensions/Weight	4.1 x 2.1 x 7.3" (104 x 54 x 185mm)/ 10.6oz (300g)



Size(HxWxD): 195mm x 99mm x 51mm  
Weight: 252g

Accessories:  
2x1.5V "AA" batteries, Type K Temp. probe, USB cable, Carrying case and Gift box



EMC  
EN: 61326-1  
EN: 61010-1



Model: 869U



# Precision Infrared Calibrator



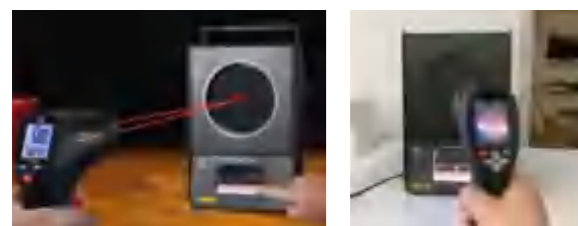
CE  
EMC  
EN: 61326

Model BXL-500P

New accredited performance for point-and-shoot calibrations (BXL-500P)

**Accuracy and traceability for infrared measurements**

- Easy to increase your IR temperature measurement accuracy
- Calibrated radiometrically for meaningful, consistent results.
- Accurate, reliable performance from 35 °C to 500 °C
- Large target size of 152 mm (6 in) is required for calibrating most thermometers.
- Intuitive, easy-to-read display that indicates when temperature is stable.
- Ethernet network interface



TFT Color display with capacitive touch screen

Specifications	
Temperature Range	35°C ~ 500°C/ (95°F ~ 932°F)
Accuracy	±0.5°C @ 100°C/ (±1.0°F @ 212°F)
	±1.8°C @ 500°C/ (±3.6°F @ 932°F)
Stability	±0.1°C @ 100°C/ (±0.2°F @ 212°F)
	±0.3°C @ 500°C/ (±0.6°F @ 932°F)
Target size	6" (152.4mm)
Target Emissivity	0.95
Resolution	0.01°C/°F up to 300°; 0.1°C/°F over 300°;
Heating Time	30 minutes to max
Cooling Time	40 minutes max to 100°C
Power	230 VAC (±10%), 1.5 A; or 110V AC, 3A

**Size(HxWxD):** 180mm x 114mm x 233mm **Weight:** 2682g  
**Accessories:** Carton box, AC power cable.

BX-350/BX-500/BXC-15 portable IR calibrators are used for calibrating long distance Infrared Thermometer, which are designed as handhold and small calibrators.

Specifications			
Temperature Range	BX-350 50°C ~ 350°C (122°F ~ 662°F)	BX-500 50°C ~ 500°C (122°F ~ 932°F)	BXC-15 -15°C ~ 120°C (5°F ~ 248°F)
Accuracy	±0.5°C @ 100°C (±1.0°F @ 212°F)	±0.5°C @ 100°C (±1.0°F @ 212°F)	±0.40°C at -15 to 0°C ±0.50°C at 0 to 100°C ±0.55°C at 100 to 120°C
	±1.2°C @ 350°C (±2.4°F @ 662°F)	±1.8°C @ 500°C (±3.6°F @ 932°F)	
Stability	±0.1°C @ 100°C (±0.2°F @ 212°F)	±0.1°C @ 100°C (±0.2°F @ 212°F)	±0.1°C @ 100°C (±0.2°F @ 212°F)
	±0.2°C @ 350°C (±0.4°F @ 662°F)	±0.3°C @ 500°C (±0.6°F @ 932°F)	
Target size	2.25" (57mm)	2.25" (57mm)	3.26" (83x83mm)
Target Emissivity	0.95	0.95	0.95
Resolution	0.1°C/°F	0.1°C/°F	0.01°C/°F up to 300°; 0.1°C/°F over 300°;
Heating Time	30 minutes to max	40 minutes to max	15 min: 120°C to 23°C 15 min: 23°C to -15°C
Cooling Time	30 minutes max to 100°C	45 minutes max to 100°C	15 min: 120°C to 23°C 20 min: 23°C to -15°C
Power	230 VAC (±10%), 1.5 A; or 110V AC, 3A		

The BXC-15 reaches temperatures from -15 °C to 120 °C



Model BXC-15

CE  
EMC  
EN: 61326

Whether you're using in-line or handheld infrared pyrometers, you need a high performance calibration standard to verify accuracy. Portable IR Calibrator provides a stable blackbody target for calibrating non-contact IR thermometers up to 500°C (BX-500).

The portable IR calibrator features a large temperature controlled blackbody target with a diameter of 2.25" (57 mm), which offers a wide field of view area for optical variations in IR thermometers. With an emissivity of 0.95, the isothermal target can be controlled in set-point increments of 0.1° from 50°C to 500°C (BX-500)

For even higher precision, a contact calibration well is located directly behind the blackbody surface. Using an optional digital RTD thermometer and calibrated secondary probe, accuracies of ±0.1°C can be achieved.



**Size(HxWxD):** 180mm x 114mm x 233mm  
**Weight:** 2682g  
**Accessories:** Carton box, AC power cable.



Model BX-350/500

## BX-150 Dry-Well Temperature Calibrator

The new heat source to check your thermometer's accuracy up to 300°C/572°F. Simply set the heat source to the desired test point, insert the test probe into the best fitting well, and get a verification of the performance. It's that easy!

Specifications	
Range	33°C to 300°C (91.4°F to 572°F)
Resolution	0.1°C/°F
Accuracy	±0.5°C (33 to 199°C) & ± 1°C (200 to 300°C) ±0.9°F (91.4 to 390.2°F) & ± 1°F (392 to 572°F)
Stability	±0.5°C
Heating Time	ambient to 300°C (572°F) after 10 minutes
Cooling Time	300°C (572°F) to 100°C (212°F) after 10 minutes
Stabilization	5 minutes
Well Depth	4" (100mm)
Power	230/115 volts

**Size(HxWxD):** 180mm x 114mm x 233mm **Accessories:** Box, AC power cable.  
**Weight:** 2200g

CE  
EMC  
EN: 61326



Model BX-150



## Food Safety Check

A varied selection of products for controlling food safety can help you meet with your HACCP requirements effortlessly - and enables you to be sure you are storing and processing food safely.

Our measuring technology includes data loggers, thermometers, cooking oil testers, pH measuring instruments and lots more.



## Food Safety Meters Selection Guide

### 2 in 1 Food Safety Infrared Thermometer

The IR-95 Food Safety infrared and contact thermometer for surface scans with a probe thermometer and alarm monitoring for internal temperature readings.



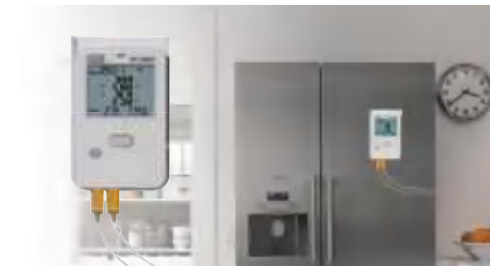
### Professional BBQ Thermometers

The 162W/163W professional wireless BBQ thermometer measures the core temperature of grilled food, transmits it wirelessly to a portable display, signals its doneness and gives an acoustic and visual alarm when the cooking time is about to be exceeded.



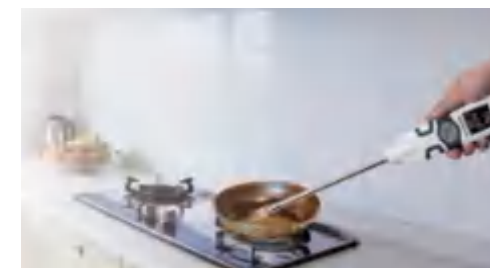
### Food Safety type-K Thermometer

The 270KT Food safety type-k thermometer in the food sector, cooling chain compliance has to be checked and verified. The ambient conditions may also have an influence on product quality. This makes continuous monitoring of temperature and relative humidity in the warehouse essential.



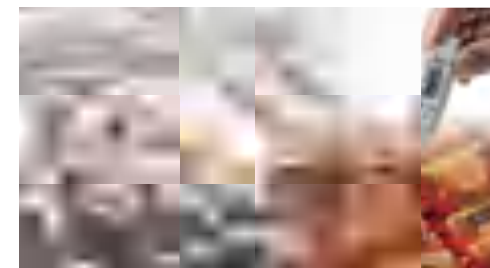
### Deep-frying Oil Tester

The 70 is a handy measuring instrument for fast testing of cooking oils. It can display the temperature of the cooking oil and TPM value. The TPM value (total polar materials) enables a statement on the ageing of cooking oils due to the effects of heat.



### Pen type Thermometers

The 133A contact thermometer offers fast response and laboratory accuracy. The thermometer offers 0.1°C/0.1°F resolution over the entire measurement ranges. A rugged holster protects the model.





The IR-95 Food Safety infrared and contact thermometer for surface scans with a probe thermometer and alarm monitoring for internal temperature readings.

**Features**

- Built-in fold-out probe for measuring internal food temperatures
- Probe temperature range -40 to 230 °C
- High and low alarm
- Backlit display for clear readings in poorly lit areas
- IP65 waterproof
- Mini modern housing design
- Flashlight

**Specifications**

IR Temp. Range	-40°C to 280°C/-40°F to 536°F
Response Time	Less than 500ms
Optical Resolution	4:1 Distance to Spot size
Thermistor Temperature Range	-40°C to 230°C/-40°F to 446°F
Emissivity	Fixed at 0.97
Resolution	0.1°C/°F
Basic Accuracy	±1.0% of reading



Model IR-95  
HACCP approved

IP65 waterproof

500ms faster sampling time



EMC  
EN: 61326  
EN: 60825-1



Size(HxWxD): 50mm x67mm x 185mm  
Weight: 180g  
Accessories:  
2X1.5V "AAA" batteries, Clamshell.

The 160/161 is a waterproof folding thermometer which offers handy, practical and strong support when carrying out temperature measurements. The thermometer features IP67 class protection and can be used under all conditions. It can also be easily cleaned under running water and has a rubber-coated surface for non-slip handling. The 161 has a large, illuminated display for easy and error-free viewing of measurement data under poor lighting conditions.

- Compact 5.9" size (15 cm)
- Ideally suited to core temperature measurements
- IP67 protection
- Non-slip rubber coated surface
- Large, illuminated readout display
- ABS/TPE/Metal housing

**Features**

Measuring temperature range	-50 to 300°C / -58 to 572°F (161)
	-50 to 260°C / -58 to 500°F (160)
Accuracy	±2°C / ±3.6°F (-50°C to -20°C / -58 to -4°F)
	±1°C / ±1.8°F (-20°C to 100°C / -4 to 212°F)
Resolution	±1% (100°C to 300°C / 212 to -572°F)
Battery	0.1°C / 0.1°F
Material/Housing	2 x1.5V "AAA" batteries / 800 hr battery life
	ABS

Size(HxWxD): 150mm x 45mm x 20mm      Accessories :  
Weight: 50g      2 x1.5V "AAA" batteries, Clamshell



Probe is suitable for various field test



Solid metal surface



Compact size



IP67 waterproof



EMC  
EN: 61326  
EN: 13485  
EN: 60825-1

Model 161  
HACCP approved



**IR-97 Food Safety Infrared Thermometer**

The Food Safety infrared non-contact thermometer for surface scans with a probe thermometer for internal temperature readings. An integrated countdown timer with alarm monitors line checks as well as cooking and cooling intervals.

**Features**

- Built-in fold-out probe for measuring internal food temperatures
- Probe temperature range -40 to 200 °C
- Countdown timer to monitor cooking, cooling and HACCP exposure times
- Backlit display for clear readings in poorly lit areas
- MAX temperature displayed for quick reference

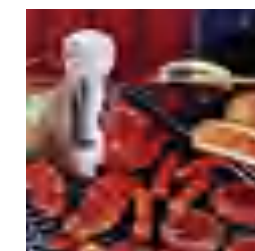
**Specifications**

IR Temp. Range	-40°C to 280°C/-40°F to 536°F
Response Time	Less than 500ms
Optical Resolution	20:1 Distance to Spot size
Emissivity	Fixed at 0.97
Thermistor Temperature Range	-40°C to 200°C/-40°F to 392°F
Resolution	0.1°C/°F
Basic Accuracy	±1.0% of reading

Size(HxWxD): 50mm x67mm x 185mm  
Weight: 180g  
Accessories:  
9V battery, Clamshell.



EMC  
EN: 61326  
EN: 60825-1



Model IR-97





EMC  
EN: 61326  
EN: 60825-1

HACCP approved

162W/163W professional wireless BBQ thermometer measures the core temperature of grilled food, transmits it wirelessly to a portable display, signals its doneness and gives an acoustic and visual alarm when the cooking time is about to be exceeded. A temperature probe measures the temperature of the grilled or pan-fried food, while the transmitter sends the data to the portable receiver over a distance of up to approx. 30m. The receiver features an acoustic voice output in five languages. The temperature can be displayed in °C or °F. The stainless steel temperature probe can be disassembled from the transmitter for easy cleaning.

162 BBQ thermometer is with single measuring probe  
162W wireless BBQ thermometer is with single measuring probe.  
163W wireless BBQ thermometer is with dual measuring probes.

**Features**

	162	162W	163W
Food and cooking temperature of the wireless transmission functions/Transmitter range		433MHz/30m	433MHz/30m
Probe measurement	Single	Single	Dual
LED for signal indication	*	*	*
Temperature and Time gauge alarm functions	*	*	*
Food type and taste level selection	*	*	*
Food, temperature and time display	*	*	*
°C/°F temperature selection	*	*	*
Backlight function	*	*	*
Power supply	2x1.5AAA	4x1.5AAA	4x1.5AAA

**Specification**

Temperature range	-40 to 230°C / -40 to 446°F
Temperature accuracy	±1% ±1°C / ±1% ±1.8°F

Size(HxWxD): 105mm x 58mm x 30mm  
Weight: 350g



EMC  
EN: 61326  
EN: 60825-1

HACCP approved



Model: 162



Model: 162W



Model: 163W



IR-92/93 Series The Non-contact Infrared Thermometers can be used to measure the temperature of objects' surface that is improper to be measured by traditional (contact) thermometer (such as moving object, the surface with electricity current or the objects which are uneasy to be touched.)



Model IR-92



Features

	IR-92	IR-93
User selectable °C or °F	*	*
Laser targeting	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
Overrange indication	*	*
For food	*	*

Specifications

	IR-92	IR-93
Temperature Range	-35 to 300°C/-31 to 572°F	-18 to 300°C/ 0 to 572°F
D:S	4:1	8:1
Temperature accuracy	Blow 39°F (4°C) ±3.6°F (2°C) 39 to 150°F (4 to 65°C) ±2°F (1°C) Above 149°F (65°C) ±(1%+2°F(1°C)) of reading.	±3.6°F(2°C) or ±2% of reading
Response Wavelength range	8-14um	
Resolution	0.1	
Emissivity	Fixed at 0.97	Fixed at 0.95
Response Time	About 150ms	
Laser wavelength	630-660nm	
Laser class	Class 2	
Low power indication	Yes	

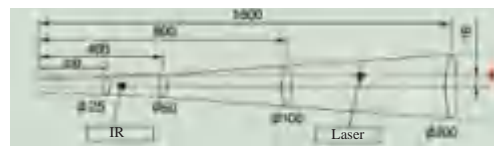
Size(HxWxD): 186mm x45mm x 38mm  
Weight: 190g

Accessories:  
9V battery, Clamshell.



EMC  
EN: 61326  
EN: 60825-1

Distance (D) to Spot size(S)  
D:S=8:1



(Unit: mm)

IR-96 Food Safety IR Thermometer with thermistor probe



Model IR-96



EMC  
EN: 61326  
EN: 60825-1

Features

- User selectable °C or °F
- Data Hold & Auto Power Off
- Overrange indication
- Max, Min record
- IR with probe temperature

Specifications

IR Temp. Range	-35°C to 260°C/ -31°F to 500°F
IR Temp. Resolution	0.1°C/°F
Optical Resolution	1:1 Distance to Spot size
Emissivity	Adjustable 0.10~1.0
Thermistor Temperature Range	-40°C to 260°C/ -40°F to 500°F
Resolution	0.1°C/°F
Response Time	Less than 1 second
Basic Accuracy	±2% of reading

Size(HxWxD): 140mm x 42mm x 25mm  
Weight: 80g

Accessories: CR2032 Button battery, Clamshell.

DT-880B Food Thermometer with Red/Green LED indication



Model 880B



EMC  
EN: 61326  
EN: 60825-1

- High Accuracy for food temperature measurement.
- Set alarm & Sound alarm if temperature is exceeded.
- Digital LCD display with backlit.
- Data displayed in Celsius or Fahrenheit.
- Auto power off (energy saver).
- Small, convenient, easy to use.

Specifications

Surface Temp.range	-50.0 to 200°C(-58°F to 392°F)
Basic Accuracy	±0.3°C/±0.6°F at 30°C~40°C/ 86°F~104°F Range
Optical Resolution	8:1 Distance to Spot size
Resolution	0.1° C/F
Response Time	Less than 1 second
Emissivity	Fixed at 0.95

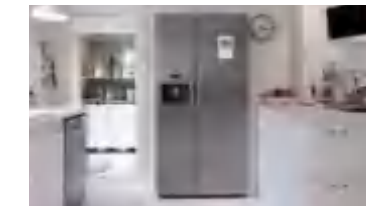
Size(HxWxD): 160mm x 82mm x 42mm  
Weight: 177g

Accessories:  
9V battery, Carrying case and Gift box.

The 270KT Food safety type-k thermomrter in the food sector, cooling chain compliance has to be checked and verified. The ambient conditions may also have an influence on product quality. This makes continuous monitoring of temperature and relative humidity in the warehouse essential.

Specifications

Temp range	-40 to 70°C
Temp accuracy	±1.0°C
Humidity range	0 to 100%RH
Humidity accuracy	±3%RH
Temp K range	-200 to +1370 °C
Temp K accuracy	Above -100°C: 0.15% rgd +1.0 °C Below -100°C: 0.5% rgd +2.0 °C
Resolution	0.1 °C (-99.9 to +999.9 °C) 1 °C (residual range)
Protection class	IP54
Measurement rate	5 sec to 24 h (5 seconds default)
Communication rate	5 sec to 24 h (5 seconds default)
Memory	4071 readings/channel
Battery life	12h at +25°C, 5 second communication cycle
Voltage supply	4 x AA batteries Mains unit optional For temperatures below -10°C please use Energizer batteries
Radio frequency	2.4 GHz (IEEE 802.11 b/g/n)
Encryption method	WEP, WPA , WPA2 (TKIP, AES)



Size(HxWxD): 68mm x 108mm x 35mm Weight: 172g  
Accessories: Li-ion battery, charger, adaptor and gift box.

IR-100 2 in 1 Food Safety Infrared Thermometer

IR-100 2 in 1 Food safety Infrared Thermometer with a platinum probe is a fully integrated temperature measuring device for managing HACCP and inspection programs for retail and food service organizations. It is with bluetooth for a mobile application, cloud-based enterprise server and easy to read the temerature shown on the smartphone by APP.

Features

- 2 in 1 Food safety Infrared Thermometer with a platinum probe
- Manage Food Quality and HACCP
- Platinum probe for high accurate measurement
- Infrared thermometer for surface temperature scanning
- LED indication for cold and hot food temperature
- Data Hold & Auto Power Off
- Overrange indication
- Max, Min record
- User selectable °C or °F
- Bluetooth Interface and Andriod/iOS APP software
- Rechargeable Li-ion battery with charger

Specifications

IR Temp. Range	-40°C to 300°C/ -40°F to 572°F
IR Temp. Resolution	0.1°C/°F
Optical Resolution	2:1 Distance to Spot size
Emissivity	Fixed at 0.95
Platinum Thermistor Temperature Range	-40°C to 250°C, -40°F to 482°F
Resolution	0.1°C/°F
Response Time	Less than 1 second
Basic Accuracy(Platinum Thermistor)	±0.6°C/ ±1.1°F

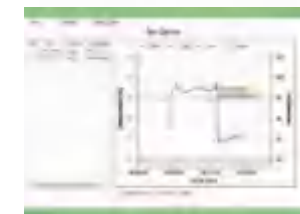
Size(HxWxD): 176mm x 55mm x 41mm Weight: 210g  
Accessories: Li-ion battery, charger, adaptor and gift box.



EMC  
EN: 61326  
EN: 60825-1



Model 270KT







EMC  
EN: 61326  
EN: 60825-1



High Quality Sensor

Model 70

DT-70 is a handy measuring instrument for fast testing of cooking oils. It can display the temperature of the cooking oil and TPM value. The TPM value (total polar materials) enables a statement on the ageing of cooking oils due to the effects of heat.

**Features**

- Display the temperature of the cooking oil: Indicator for correct setting of the deep fat fryer, checking of integrated temperature displays.
- Display the TPM value: Indicator for the aging of the cooking oil.
- The sensor works on a capacitive basis and determines as the reading the total polar materials as a %.

**Specifications**

Measuring range	Temperature: 40.0 to 200°C;(104.0 to 392.0°F) TPM: 0 to 40%
Accuracy	Temperature:±1.5°C TPM: ±2%
Resolution	Temperature:0.1°C TPM: 0.5%
Battery life	approx 25h of continuous operation(corresponds to 500 measurements)
Operating temperature	0 to 50 °C
Storage/transport temperature	-20 to 70 °C
TPM response time	< 30s
Dimensions (LxWxH)	365x48x31
Housing material	ABS+PC 、 TPE
Protection class	IP68

**Size(HxWxD):** 365mm x 48mm x 26mm

**Weight:** 248g

**Accessories:** 2x1.5V“AAA”batteries, Carrying case and Gift box.



The 130/131 contact thermometers offer fast response and laboratory accuracy. These thermometers offer 0.1°C/0.1°F resolution over the entire measurement ranges. A rugged holster protects both models.

- Easy to use: Remove the protective sheath, press the ON/OFF button and insert into the testing area.
- LCD screen shows readings in Fahrenheit or Celsius
- Range: -40° to +250° C/ -40° to +482° F
- 132 is pen type humidity & temperature meter

**Features**

	130	130A	131/133	131A	132	133A
User Selectable °C or °F	*	*	*	*	*	*
Resolution 0.1°C/0.1°F	*	*	*	*	*	*
Sampling time 2.0 seconds	*	0.5S	*	0.5S	*	0.5s
Reaction time	10s	6s	10s	6s	10s	6s
LCD display	*	*	*	*	*	*
Max / Min Hold and Data Hold			*		*	*
Auto Power Off	*	*	*	*	*	*
Humidity & Temperature measurement	Temp.	Temp.	Temp.	Temp.	*	Temp.
2.0mm Diameter probe shaft tip		*		*		*

**Specifications**

Function	Range	Basic Accuracy	130A	131A	133A	130	131/133	132
Temperature	-40~250°C/482°F	±1.5%				*	*	*
	-40~200°C/392°F	±1.0%	*	*	*			
Humidity	10%RH~95%RH	±3.5%						*

**Size(HxWxD):** 130:150mm x 40mm x 28mm

131/132/133:211mm x 32mm x 19mm

**Weight:** 130:19g

131/132/133:35g

**Accessories :**

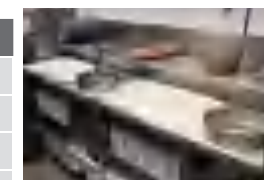
One LR44(1.5V) button battery and clamshell.



High Accuracy  
Faster Reaction time 6s (133A)



EMC  
EN: 61326  
EN: 60825-1



Model 133A



Model 132



Model 130



Model 133



Model 131



- 300ms quickest sampling time with 1.5% accuracy (IR-65B)
- Easy to use : hold it within two feet of the area to be measured and push the button
- Large LCD screen shows readings in Fahrenheit or Celsius
- Range: -35 to 250°C/-31 to 482°F (IR-65B)
- Compact size design for the ultimate in convenience and portability
- World smallest & IP rating 67 (IR-67/67B)

1.5% Accuracy (IR-65B)

Model IR-65



EMC  
EN: 61326  
EN: 60825-1

Features	IR-65	IR-65B	IR-67	IR-67B
User selectable °C or °F	*	*	*	*
Automatic Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
Lock function	*	*	*	*
Set Min, Max	*	*		
Fast sampling time	<1s	300ms	<1s	<1s
Housing material	Plastic	Plastic	Plastic	Metal
High accuracy		1.5%		1.5%

Specifications	IR-65	IR-65B	IR-67	IR-67B
Range	-35°C~230°C/ -31°F~446°F	-35°C~250°C/ -31°F~482°F	-35°C~230°C/ -31°F~446°F	-35°C~250°C/ -31°F~482°F
Response Time	Less than 1 second	Less than 1 second	Less than 1 second	Less than 1 second
Basic Accuracy	±2% or ±2°C/±4°F	±1.5% or ±2°C/±4°F	±2% or ±2°C/±4°F	±1.5% or ±2°C/±4°F
Optical Resolution	1:1			
Emissivity	Fixed at 0.95	0.1 to 1 (adjustable)	Fixed at 0.95	
Resolution	0.1°C/°F			

Size: 80mm x 40mmx25mm (IR-65/65B)  
100mm x 25mm(IR-67/67B)

Weight: 36g (IR-65/65B) 33g(IR-67/67B)

Accessories : One CR2032 button battery & Clamshell (IR-65/65B)  
Two LR44(1.5V) button batteries, Clamshell (IR-67/67B)



World smallest



≤100°C Green backlight



>100°C Red backlight



Model IR-67B

Features	IR-66	IR-66B
User selectable °C or °F	*	*
Automatic Data Hold	*	*
Auto Power Off	*	*
Low battery indication	*	*
Lock function	*	*
Set Min, Max	*	*
Fast sampling time	<1s	300ms
High accuracy		1.5%

Specifications	IR-66	IR-66B
Range	-35°C~230°C/ -31°F~446°F	-35°C~250°C/ -31°F~482°F
Response Time	Less than 1second	Less than 300ms
Basic Accuracy	±2% or ±2°C/±4°F	±1.5% or ±2°C/±4°F
Optical Resolution	1:1	
Resolution	0.1°C/°F	
Emissivity	Fixed at 0.95	

Size(HxWxD): 75mm x 40mm x 20mm Weight: 33g

Accessories : One CR2032 button battery, Carrying Case & Clamshell

- 300ms quickest sampling time with 1.5% accuracy (IR-66B)
- Easy to use : hold it within two feet of the area to be measured and push the button
- Large LCD screen shows readings in Fahrenheit or Celsius
- Range: -35 to 250°C/-31 to 482°F
- Compact size design for the ultimate in convenience and portability

1.5% Accuracy (IR-66B)

300ms faster sampling time (IR-66B)



EMC  
EN: 61326  
EN: 60825-1



Model IR-66



Model IR-66B

IR-77H/88/88H/88G series Pocket InfraRed Thermometers with Laser Pointer

The IR-77H/88/88H series Pocket InfraRed Thermometers are new models designed with lower cost. Check all types of A/C and heating systems. Monitor performance of appliances such as refrigerator, dishwasher, freezer and oven. Ensure proper cooking, grilling and storage temperatures.

- Built-in laser pointer identifies target area
- 6:1 Distance to Spot size ratio
- Data Hold and Max Hold (IR-88/88H)
- Fixed emissivity 0.95 covers 90% of surface applications
- Adjustable Emissivity (88H)
- 0.1° resolution (88H)
- Lock for continuous use (88H)
- Programmable alarm setpoint (88H)

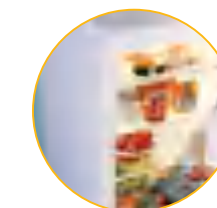
- Laser Pointer
- Measure up to 270°C/518°F

- 6:1 Distance to Spot
- Adjustable Emissivity (88H)

Specifications	IR-77H	IR-86/IR-87/IR-88	IR-88H	IR-88G
Range	-30°C~270°C/ -22°F~518°F	-20°C~270°C/ -4°F~518°F	-20°C~270°C/ -4°F~518°F	-20°C~500°C/ -4°F~932°F
Response Time	Less than 1 second			
Resolution	0.1°C/°F			
Basic Accuracy	±2% or ±2°C/±4°F			
Optical Resolution	6:1			
Emissivity	Fixed at 0.95	Fixed at 0.95	0.1 to 1 (adjustable)	0.1 to 1 (adjustable)
Battery	1.5V AAA battery x 2			

Size(HxWxD): IR-77H: 97mm x 57mm x 29mm  
IR-86/87/88/88H: 97mm x 53mm x 25mm Weight: 81g

Accessories : Two "AAA" Batteries, Manual and Clamshell.



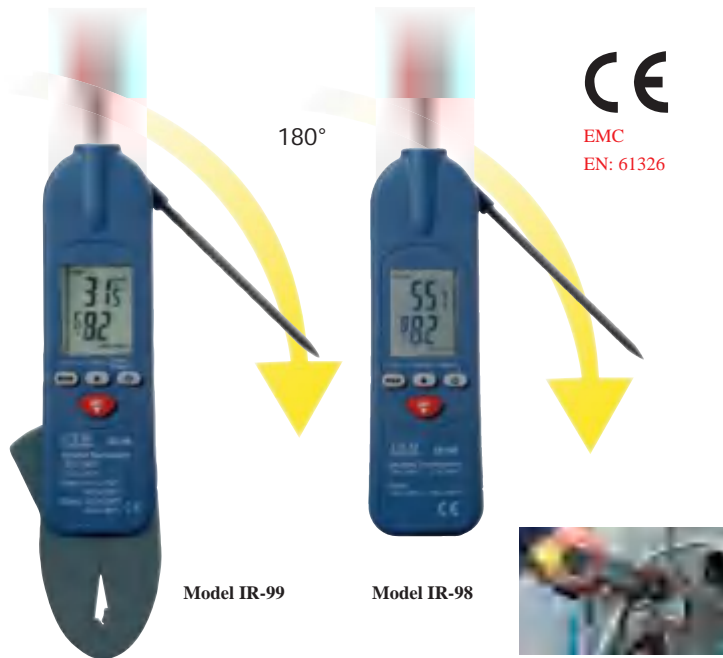
Model IR-88



Model IR-77H







Features	IR-98	IR-99
User selectable °C or °F	*	*
Data Hold & Auto Power Off	*	*
Overrange indication	*	*
Max, Min record	*	*
IR with probe temperature	*	*
IR with probe & clamp temperature		*

Specifications	IR-98	IR-99
IR Temp. Range	-35°C to 260°C / -31°F to 500°F	*
IR Temp. Resolution	0.1°C/°F	*
Optical Resolution	1:1 Distance to Spot size	*
Emissivity	Adjustable 0.10~1.0	*
Thermistor Temperature Range	-40°C to 260°C / -40°F to 500°F	*
Resolution	0.1°C/°F	*
Clamp Temperature Range	-40°C to 200°C / -40°F to 392°F	*
Response Time	Less than 1 second	*
Basic Accuracy	±2% of reading	*

**Size(HxWxD):** 140mm x 42mm x 25mm (IR-98) **Weight:** 80g  
**Accessories:** CR2032 Button battery, Clamshell.  
**Size(HxWxD):** 183mm x 52mm x 25mm (IR-99) **Weight:** 109g  
**Accessories:** CR2032 Button battery, Clamshell.

IR-15 2 in 1 InfraRed Thermometer & Pressure Temperature Chart



Model IR-15

2 in 1 Digital Infrared Thermometer with pressure temperature chart offers fast and accurate IR temperature or temperature references on a large easy-to-read LCD display.

- Rugged, double molded case
- Easy to chart the references of freezing devices

Specifications	
IR Temp. Range	-30 to 500°C / -22 to 932°F
Response Time	Less than 300 ms
Basic Accuracy	±1.5% or ±2°C/±4°F
Optical Resolution	13:1
Resolution	0.1°C/°F
Emissivity	Fixed at 0.95

**Size(HxWxD):** 154mm x 61mm x 46mm **Weight:** 190g  
**Accessories:** 9V battery, gift box with carrying case.

AC-8T 2 in 1 InfraRed Thermometer & Non-contact AC Voltage



Model AC-8T

2 in 1 Infrared Thermometer with Non-contact AC Voltage(NCV) provides easy and safety measurement. Check all types of A/C, electronic and heating systems.

Specifications (IR thermometer)	
IR Temp. Range	-35°C~230°C (-31°F~446°F)
Response Time	Less than 1second
Basic Accuracy	±2% or ±2°C/±4°F
Optical Resolution	1:1
Resolution	0.1°C/°F
Emissivity	Fixed at 0.95
Specifications (NCV)	
Standard	CAT III 1000V
Operating Range	VoltFinder: 100 ~ 1000V AC; 200 ~ 1000V AC (European standard)

**Size(HxWxD):** 158mm x 21mm x 25mm **Weight:** 34g  
**Accessories:** Two "AAA" batteries, clamshell

IR-2G 2 in 1 InfraRed Thermometer & Flash Memory



Model IR-2G

Specifications	
IR Temp. Range	-35°C~230°C (-31°F~446°F)
Response Time	Less than 1second
Basic Accuracy	±2% or ±2°C/±4°F
Optical Resolution	1:1
Resolution	0.1°C/°F
Emissivity	Fixed at 0.95
Flash memory	2G bits

**Size(HxWxD):** 102mm x 35 x 20mm **Weight:** 48g  
**Accessories:** Two "AAA" batteries, Clamshell.

Features	
User selectable °C or °F	
Automatic Data Hold	
Low battery indication & Auto Power Off	
Set Min, Max, Lock	

Specifications	
Range	-35°C~900°C / -31°F~1652°F
Response Time	Less than 500ms
Resolution	0.1°C/°F
Basic Accuracy	±1.5% or ±2°C/±4°F
Optical Resolution	50:1 Distance to Spot size
Emissivity	0.1 ~ 1.0 (adjustable)
Power	230 VAC (±10%), 0.1 A, switchable 50/60 Hz or 12 ~24 DCV

**Size(HxWxD):** 71mm x 71mm x 87mm **Weight:** 268g  
**Accessories:** Stand, Cable and Gift box .



Model IR-91

IR-82 InfraRed Thermometer Probe

- 8:1 Distance to Spot size ratio
- Built-in laser pointer
- Built-in Analog output of 1 mV/°C or °F & °C/°F switchable
- Compatible with multimeters, clamp meters, oscilloscope and industrial applications etc
- Ideal for applications where object being measured cannot be touched
- Provides instant , highly repeatable readings & Low battery indication

Specifications	
Range	-35°C to 550°C / -31°F to 1022°F
Response Time	Less than 500ms
Resolution	1mV/°C or °F
Basic Accuracy	±2% or ±2°C/±4°F
Optical Resolution	8:1
Emissivity	Fixed at 0.95
Battery	9V

**Distance (D) to Spot size(S)**  
**D:S=8:1**



(Unit: mm)

**Size(HxWxD):** 166mm x 53mm x 40mm **Weight:** 189g  
**Accessories:** 9V battery, Clamshell



Model IR-82

8810 Series and IR-68 Multifunction InfraRed Thermometers

Features	8811H/8811	8812H/8812	IR-68
16"Gooseneck detector			*
User selectable °C or °F	*	*	*
Laser targeting	*	*	*
Automatic Data Hold	*	*	*
Audible and visible Overrange indication	*	*	*
Auto Power Off	*	*	*
Backlit LCD Display	*	*	*
Low battery indication	*	*	*
Wide range	*	*	*
Automatic range	*	*	*

Features	8811H	8812H	IR-68
Range	-20°C to 500°C / -4°F to 932°F	-50°C to 650°C / -58°F to 1202°F	-50°C to 600°C / -58°F to 1112°F
Response time	Less than 1 second.	Less than 1 second.	Less than 1 second.
Resolution	0.1° up to 200°, 1° over 200°	0.1° up to 200°, 1° over 200°	0.1° up to 200°, 1° over 200°
Basic Accuracy	± 2% of reading or ±2°C/±4°F	± 2% of reading or ±2°C/±4°F	± 2% of reading or ±2°C/±4°F
Optical resolution	8:1 Distance to Spot size	8:1 Distance to Spot size	8:1 Distance to Spot size
Emissivity	Fixed at 0.95	Fixed at 0.95	Fixed at 0.95

**Size(HxWxD):** 159mm x 79mm x 57mm **Weight:** 180g  
**Accessories:** 9V battery, Clamshell or gift box with carrying case



Model IR-68

Model 8811H

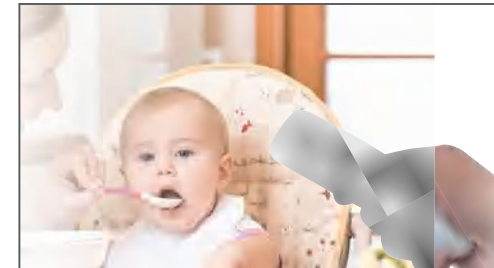


Clinical measuring instruments for healthy care



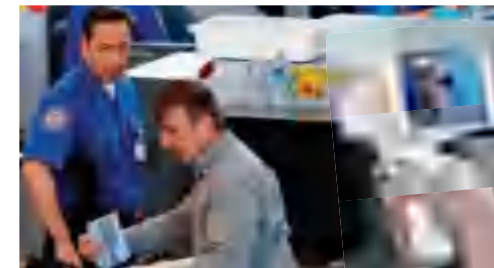
Clinical Forehead Infrared Thermometers with 32 readings memory

**8806H/8806U/8806R/8816H** Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings. From a distance of around 5cm, all you have to do is pointing it towards the forehead to read the temperature shown on the LCD screen.



Non-Contact Clinical Forehead InfraRed Thermometers

**8807** Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature. It is with high precise and can be set alarm value and sound alarm.



Non-Contact Clinical Forehead InfraRed Thermometers with Bluetooth

**8836/8836H** Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings. From a distance of around 20cm, all you have to do is pointing it towards the forehead to read the temperature readings on the LCD screen. The temperature readings are transmitted to smart phone via bluetooth which transmits information to the cloud



2 in 1 Non-Contact Clinical Forehead InfraRed Thermometer with TDS test

**MT-1** Clinical Forehead Infrared Thermometer ensures accurate and stable body temperature readings and Total dissolved solids (TDS) test. It provides fast response less than 1 second with White / Green / Red LED alarm display.



Non-Contact Pocket Clinical Forehead InfraRed Thermometer with Bluetooth

**Leyu1/Leyu2/Leyu3** are pocket Clinical Forehead Infrared Thermometers, which ensures accurate and stable body temperature readings and transfer the measuring datas to the smart phone by bluetooth. **Leyu2** shows temperature readings by white LED display. **Leyu3** shows temperature readings by LCD display.



# Non-Contact Clinical Forehead InfraRed Thermometer



CE 0197 FC   
 FDA



# Leyu1/Leyu2/Leyu3

Leyu1/Leyu2/Leyu3 are pocket Clinical Forehead Infrared Thermometers, which ensures accurate and stable body temperature readings and transfer the measuring datas to the smart phone by bluetooth. Leyu1 is easy to use and safety with waterproof, and is particularly efficient for taking the temperature of newborn babies and very young children. From a distance of around 5cm, just point it towards to read the temperature shown on the smartphone by App. Leyu2 shows temperature readings by white LED display. Leyu3 shows temperature readings by LCD display.

## Features

	Leyu1	leyu2	leyu2S	leyu3	leyu3S
White LED display		*	*		
LCD display				*	*
Fast Sampling time	*	*	*	*	*
Easy to use	*	*	*	*	*
Safety, Anti-swallow&fall	*	*	*	*	*
Waterproof	*	*	*	*	*
Non-contact measurement	*	*	*	*	*
Particular efficient for taking the temperature	*	*	*	*	*
Bluetooth Interface and Android/iOS APP software	*	*	*	*	*

## Specifications

APP software	Yes
LED indication for temperature	Yes
Range/Accuracy	Body: 35 ~ 42°C(95°F ~ 107.6°F) / ±0.3°C(0.5°F) Surface: 0 ~ 60°C (32°F~140°F) / ±1°C(1.8°F)
Repeatability	±0.2°C(0.4°F)
Response time	1s
Spectral response	8 to 14um
Measuring Distance	1 to 4cm
LED indication	Red/Green/Yellow/Blue
Operating temp.	10 to 40°C(50 to 104°F)
Storage temp.	-10 to 60°C(14 to 140°F)
Relative humidity	10% to 90%RH operating, <80%RH storage
Power supply	CR2032



Leyu1



Leyu2



Leyu3



## Leyu-808/808S Non-Contact Thermometers with Voice Reading

### Features

	Leyu-808	Leyu-808S
Forehead temperature	*	*
LCD display	*	*
Easy to use & fast sampling time	*	*
Safety, Anti-swallow & fall	*	*
Non-contact measurement without touching the body	*	*
Particularly efficient for taking the temperature	*	
Bluetooth Interface and Andriod/iOS APP software	*	

### Specifications

Range/Accuracy	Body: 35 ~ 42°C(95°F ~ 107.6°F) / ±0.3°C(0.5°F) Surface: 0 ~ 60°C (32°F~140°F) / ±1°C(1.8°F)
Repeatability	±0.2°C(0.4°F)
Response time	1s
Measuring Distance	1 to 4cm
Power supply	2 x AAA batteries

Size(HxWxD): 48mm x 52mm x 105mm  
 Weight: 130g  
 Accessories: 2 x AAA batteries, Carrying case and Gift box.





# Non-Contact Clinical Forehead InfraRed Thermometers



8806H/8806U/8806R/8816H Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings, which is particularly efficient for taking the temperature of newborn babies and very young children. From a distance of around 5cm, all you have to do is pointing it towards the forehead to read the temperature shown on the LCD screen.

- 8806H is portable and easy to take the measurements and store 32 readings.
- 8816H is portable with body temperature datalogger to memory 6000 readings.
- 8806U is portable with USB interface
- 8806R is portable with RS485 interface

**Safety Conformance**

- ASTM E1965-1998
- EN 980: Graphical symbols for use in the labeling of medical devices
- EN 1041: Information supplied by the manufacturer with medical devices
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1:1998)
- EN 60601-1-2: Medical electrical equipment Part 1-2: General requirements for safety Collateral standard Electromagnetic compatibility Requirements and test (IEC 60601-1-2:2001)

**Features**

	8806H	8806U	8806R	8816H
Precise non-contact forehead temperature measurements	*	*	*	*
Selectable °C or °F & forehead heat detection	*	*	*	*
Selectable Body and Surface temperature	*	*	*	*
Set alarm value and sound alarm	*	*	*	*
Memorization of the last 32 measurements	*	*	*	*
Automatic Data Hold & Auto power off	*	*	*	*
Automatic selection range	*	*	*	*
Display Resolution 0.1°C(0.1°F)	*	*	*	*
Backlight LCD display	*	*	*	*
Wireless data transmitting(RF433MHz)				*
6000 Readings memories				*
Records readings with real date and time stamp				*
Read the Max/Min measuring temperature				*
USB interface		*		*
RS485 interface			*	*

**Specifications**

Range(body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range(Surface mode)	0°C to 60°C/32°F to 140°F
Resolution	0.1°C/0.1°F
Basic accuracy	32 to 35.9°C/93.2 to 96.6°F(±0.3°C/±0.5°F)
ASTM	36 to 39°C/96.8 to 96.6 to 102.2°F(±0.2°C/±0.4°F)
E1965-1998(2003)	39 to 42.5°C/102.2 to 108.5°F(±0.3°C/±0.5°F)
Measuring distance	5-15CM
Response time	0.5 second



**Size(HxWxD):** 146mm x 88mm x 43mm (8806H/8816U/8816H)  
**Weight:** 205g

**Accessories:** 2x1.5V“AA”batteries, Carrying case and Gift box.



Model 8806H



Model 8816H



Model 8816R

Body Temperature Datalogger

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

**Safety Conformance**

- ASTM E1965-1998
- EN 980: Graphical symbols for use in the labeling of medical devices
- EN 1041: Information supplied by the manufacturer with medical devices
- EN 60601-1: Medical electrical equipment Part 1: General requirements for safety (IEC:60601-1:1998)
- EN 60601-1-2: Medical electrical equipment Part 1-2: General requirements for safety Collateral standard Electromagnetic compatibility Requirements and test (IEC 60601-1-2:2001)

**Features**

	8806	8806B	8806S
Housing colour	Blue	Blue	Purple
Precise non-contact forehead temperature measurements	*	*	*
Selectable °C or °F & forehead heat detection	*	*	*
Selectable Body and Surface temperature	*	*	*
Set alarm value and sound alarm	*	*	*
Memorization of the last 32 measurements	*	*	*
Automatic Data Hold & Auto power off	*	*	*
Automatic selection range	*	*	*
Display Resolution 0.1°C(0.1°F)	*	*	*
Backlight LCD display	*	*	*
Bluetooth & Cloud server		*	*

**Specifications**

Range(body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range(Surface mode)	0°C to 60°C/32°F to 140°F
Resolution	0.1°C/0.1°F
Basic accuracy	32 to 35.9°C/93.2 to 96.6°F(±0.3°C/±0.5°F)
ASTM	36 to 39°C/96.8 to 96.6 to 102.2°F(±0.2°C/±0.4°F)
E1965-1998(2003)	39 to 42.5°C/102.2 to 108.5°F(±0.3°C/±0.5°F)
Measuring distance	5-15cm
Response time	0.5 second

**Size(HxWxD):** 131mm x 82mm x 35mm (8806/8806S)

**Weight:** 130g

**Accessories:** 2x1.5V“AAA”batteries, Carrying case and Gift box.

Model 8806B



## DT-608/609 Mini Non-Contact Forehead Infrared Thermometers

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

**Features**

- Precise non-contact body temperature measurements
- Selectable °C or °F & forehead heat detection
- Selectable Body and Surface temperature
- Automatic Data Hold & Auto power off
- Automatic selection range and Display Resolution 0.1°C(0.1°F)
- 0.5~2.5cm Measuring distance

**Specifications**

Body temperature range	30.0°C to 42.5°C/86°F to 109°F
Surface temperature range	0°C to 60°C(32°F to 140°F) (Model:608) -35°C to 110°C(-31°F to 230°F) (Model:609)
Resolution	0.1°C/0.1°F
Basic accuracy	±0.3°C at 30°C~40°C/86°F~104°F Range
Response time	0.5 second
Over range indication	LCD will show “Hi”/ “Lo”
Emissivity	fixed at 0.95
Spectral response	6~14um
Power off	Automatic shut off after 7 seconds, approx.

**Size(HxWxD):** 80mm x 40mm x 23mm

**Weight:** 33g

**Accessories:** One CR2032 button battery, Carrying case and Gift box.



Model 608



Model 609





Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

Memorization of the last 32 measurements

Accuracy:  $\pm 0.3^{\circ}\text{C}/\pm 0.5^{\circ}\text{F}$

Model 8807



DT-886/886B Ear Thermometer

886/886B Infrared Ear Thermometers measure the kind of temperature from the eardrum has been found to be a clinically reliable indicator of body core temperature. They are high quality products incorporating the latest technology and tested in accordance with international standard. They perform a self-test every time and can be used by consumers in household environment and doctor in clinic as reference.

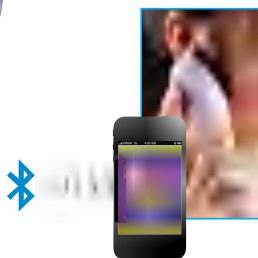
Features	886	886B
Unique Thermoscan Feedback system confirms the thermometer is in the correct position and then confirms an accurate temperature reading has been taken by a constant light and a beep	*	*
Temperature results in degrees °C or degrees °F	*	*
Accurate and safe for newborns and the whole family, new ultra soft and gentle tip is warmed up for accuracy and extra comfort Memory recalls last 8 temperatures	*	*
Bluetooth & Cloud server		*

Specifications	
Temperature unit	°C/°F
Body Temperature range	32.0°C~42.9°C/95°F~109°F
Basic accuracy	35.5°C~42.0°C( $\pm 0.1^{\circ}\text{C}/0.2^{\circ}\text{F}$ )
Resolution	0.1°C/0.1°F
Response time	0.5S
Operating environment	5°C~40°C (41°F~104°F) /15~95%RH

Size(HxWxD): 155mm x 50mm x 33mm    Accessories: 2x1.5V batteries, Gift box.  
Weight: 68g



Made for iPod iPhone iPad



Model 886B



Accuracy:  $\pm 0.3^{\circ}\text{C}/\pm 0.5^{\circ}\text{F}$



Model 807



Features

- Precise non-contact Forehead temperature measurements
- Selectable °C or °F
- Selectable Body and Surface temperature
- Automatic Data Hold & Auto power off
- Display Resolution 0.1°C(0.1°F)
- Backlight LCD display

Specifications

Range (body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range (Surface mode)	0°C to 60°C/32°F to 140°F
Resolution	0.1°C/0.1°F
Basic accuracy	32 to 35.9°C/93.2 to 96.6°F( $\pm 0.3^{\circ}\text{C}/\pm 0.5^{\circ}\text{F}$ )
ASTM	36 to 39°C/96.8 to 96.6 to 102.2°F( $\pm 0.2^{\circ}\text{C}/\pm 0.4^{\circ}\text{F}$ )
E1965-1998(2003)	39 to 42.5°C/102.2 to 108.5°F( $\pm 0.3^{\circ}\text{C}/\pm 0.5^{\circ}\text{F}$ )
Measuring distance	1~5cm
Response time	0.5 second

DT-806 Series Non-Contact Body Infrared Thermometers

Non-Contact Body IR Thermometer is a newly design with European style, specially designed to take the body temperature of a person regardless of room temperature.

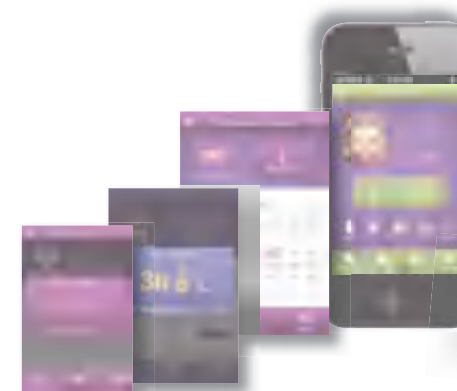


Features

	806/806D/806R	806C	806CV	806B
Precise non-contact body temperature measurements	*	*	*	*
Selectable °C or °F & forehead heat detection	*	*	*	*
Selectable Body and Surface temperature	*	*	*	*
Set alarm value and sound alarm	*	*	*	*
Memorization of the last 32 measurements	*	*	*	*
Automatic Data Hold & Auto power off	*	*	*	*
Automatic selection range and Display Resolution 0.1°C(0.1°F)	*	*	*	*
Backlight LCD display	*	*	*	*
Meterbox iCare & cloud computing service				*
Red, orange, green LED indicator		*	*	
Talking function			*	
Body IR Thermometer analyzer				*
Measuring distance (Distance to Spot size)		1~10cm		
Bluetooth & Cloud server				*

iCare software for Body Thermometers

- Meterbox-iCare Software permits/ functions:
- Temperature measuring data transferred to Cloud Edit, analysis & Store the temperature data
- Connecting with iPhone/iPod/ iPad/Android Phone/Android Pad
- Sharing the data with others by E-mail, facebook & twitter Trend capture
- Cloud backup
- Body IR Thermometer analyzer



Blue backlight Low temperature reading alarm



Red backlight High temperature reading alarm



Model 806/806C

Size(HxWxD): 150mm x 58mm x 40mm  
Weight: 157g  
Accessories: 2 x 1.5V "AAA" battery, Carrying case and Gift box.



Model 806B





Model 8836/8836H

8836/8836H Clinical Forehead Infrared Thermometers ensure accurate and stable body temperature readings, which is particular efficient for taking the temperature of newborn babies and young children. From a distance of around 20cm, all you have to do is pointing it towards the forehead to read the temperature readings on the LCD screen. The temperature readings are transmitted to smart phone via bluetooth which transmits information to the cloud



Features	8836	8836H
Precise non-contact forehead temperature measurements	*	*
Selectable °C or °F & forehead heat detection	*	*
Selectable Body and Surface temperature	*	*
Set alarm value and sound alarm	*	*
Face recognition	*	*
Image storage	*	*
Automatic Data Hold & Auto power off	*	*
Automatic selection range	*	*
Display Resolution 0.1°C(0.1°F)	*	*
Backlight LCD display	*	*
Readings memories	*	*
Records readings with real date and time stamp	*	*
Read the Max/Min measuring temperature	*	*
Automatic generation of data tables	*	*
Automatic Data Hold & Auto power off	*	*

Specifications	
Range(body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range(Surface mode)	0°C to 60°C/32°F to 140°F
Resolution	0.1°C/0.1°F
Basic accuracy	32 to 35.9°C/93.2 to 96.6°F(±0.3°C/±0.5°F)
ASTM E1965-1998(2003)	36 to 39°C/96.8 to 96.6 to 102.2°F(±0.2°C/±0.4°F)
	39 to 42.5°C/102.2 to 108.5°F(±0.3°C/±0.5°F)
Measuring distance	15-25CM
Response time	0.5 second

Size(HxWxD): 155mm x 50mm x 33mm  
Weight: 68g

Accessories:  
2x1.5V batteries, Gift box.



Features	MT-1	MT-2
TDS	*	*
Body temperature	*	*
Ambient temperature/Surface temperature	*	*
White LED digital display	*	*
White / Green / Red LED alarm display	*	*
Fast response less than 1 second	*	*

Specifications	MT-1	MT-2
Body temperature Measuring range	35-42°C (95 -107.6 °F)	
Ambient temperature measuring range	0-60°C (32 -140 °F)	
TDS	TDS: 0-9990PPM	
Basic accuracy	Body temperature: +0.2°C / +0.4°F TDS: +2%F.S	Body temperature: +0.2°C / +0.4°F TVOC: +5%F.S
	Resolution	Body temperature: 0.1°C/°F TDS: 1PPM
Measuring distance	1-5CM	
Operating temperature	10-40°C	
Operating Humidity	<85%RH	
Battery type	2*AAA	

Size(HxWxD): 35mm x 142mm x 50mm  
Weight: 73g

Accessories:  
2x1.5V batteries, Gift box.



Model MT-1

DT-8809/8809H Non-Contact Infrared Thermometers for animals

Features	8809	8809H
Measuring distance	0.5-1m	0.5-1m
Precise non-contact forehead temperature measurements	*	*
Selectable °C or °F & forehead heat detection	*	*
Selectable Body and Surface temperature	*	*
Set alarm value and sound alarm	*	*
Memorization of the last 32 measurements	*	*
Automatic Data Hold & Auto power off	*	*
Display Resolution 0.1°C(0.1°F)	*	*
Backlight LCD display	*	*
Read the Max/Min measuring temperature	*	*
Red backlight & beeper alarm	*	*
Interface	Bluetooth (Optional)	NB-IOT

Specifications	
Range(body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range(Surface mode)	0°C to 60°C/32°F to 140°F
Range (animal mode)	30°C to 45°C/86°F to 113°F
Resolution	0.1°C/0.1°F
Basic accuracy	±0.3°C/±0.5°F
Measuring distance	50-100CM
Response time	0.5 second

Size(HxWxD): 204mm x 155mm x 52mm  
Weight: 320g

Accessories:  
9V batteries, Gift box.



Model 8809



Measuring distance 1~75cm



Model 8817

Non-Contact Forehead IR Thermometer is specially designed to take the body temperature of a person regardless of room temperature.

### Features

- Precise non-contact forehead temperature measurements
- Selectable °C or °F & forehead heat detection
- Selectable Body and Surface temperature
- Set alarm value and sound alarm
- Memorization of the last 10 measurements
- Automatic Data Hold & Auto power off
- Display Resolution 0.1°C(0.1°F)
- Backlight LCD display

### Specifications

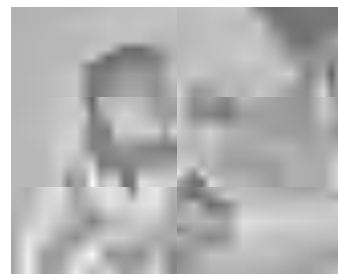
Range(In body mode)	32.0°C to 42.5°C/89.6°F to 108.5°F
Range(In Surface mode)	0°C to 60°C/32°F to 140°F
Resolution	0.1°C/0.1°F
Basic accuracy	32 to 35.9°C/93.2 to 96.6°F(±0.3°C/±0.5°F)
ASTM	36 to 39°C/96.8 to 96.6 to 102.2°F(±0.2°C/±0.4°F)
E1965-1998(2003)	39 to 42.5°C/102.2 to 108.5°F(±0.3°C/±0.5°F)
Measuring distance	1~75cm
Response time	0.5 second

**Size(HxWxD):** 146mm x 104mm x 43mm **Weight:** 163g  
**Accessories:** 9V battery, Carrying case and Gift box.

### DT-137 Electron Clinical Thermometer



Model 137



The special-purpose of electron clinical thermometer is body temperature Measuring, offering safe, accurate and quick temperature readings. Select oral, rectal or axillary as your measurement site. No need to worry about broken glass or mercury hazards.

### Specifications

Measurement rang	32.0°C -42.9°C(89.6°F-109.2°F)
Measurement accuracy	±0.1°C(0.2°F)between 35°C to 42°C (95°F to 107.6°F)
Operating Temperature	10°C to 40°C(50°Fto 104°F)
Storage temperature	-10°C to +60°C
Memory	For signaling the last measured value
Battery:	3V, CR2032

**Size(HxWxD):** 156mm x 34mm x 22mm **Accessories:**  
**Weight:** 32g CR2032 3V battery, Clamshell

### BP-96/96B/96H Electronic Blood Pressure Monitor



Model 96B



Model 96



Model 96H



### Specifications

Systolic/mmHg	Diastolic/mmHg	Meaning	Action
<105	<60	Hypotonic	Consult your doctor
105-140	60-90	Normal	Self-monitoring is sufficient
140-160	90-95	Borderline hypertonic	Consult your doctor
>160	95-105	Mildly hypertonic	Consult your doctor
>160	105-115	Hypertonic,medium severity	Get medical attention
>180	>115	Severely hypertonic	Get medical attention immediately

**Size(HxWxD):** 66mm x 65mm x 30mm(96)  
 73mm x 68mm x 28mm(96B)  
 85mm x 85mm x 28mm(96H)

**Weight:** 99g(96), 107g(96B),133g (96H)

BP-102/106 Arm cuff is suitable for arm from 220 to 320mm circumference, the blood pressure monitor readjust itself to identify the necessary pumping pressure, if the pumping pressure set in the factory is not sufficient, the device identifies this and continues pumping

### Features

- Talking function (BP-102)
- 99 x2 memory locations
- The date and time are displayed and stored together with every blood pressure value
- If the battery icon is displayed, the batteries are discharged and the device cannot be used until new batteries are installed

### Specifications

Display	Digital LCD display
Measurement	Oscillometric method
Pressure Display Range	0-299mmHg
Measurement Range	Pressure: 30 to 280 mmHg
Pulse rate	40 to 199 beats/min
Accuracy	Pressure: Within ±5 mmHg Pulse rate: Within ±5% of reading
Power Supply	4x1.5V "AA" Size Batteries
Operating Environment	10~40°C /15%~85%RH
Storage Environment	-10~50°C/10%~93%RH
Measurable Arm Circumference	220mm~320mm
Safety Classification	Internal power: Type B
Inflation	Automatic inflation with pumping
Air Release	Automatic rapid air release
Pressure Detection	Electrostatic capacity pressure sensor
Pulse Detection	Electrostatic capacity pressure sensor

**Size(HxWxD):** 136mm x 131.5mm x 68.5mm(106),145mm x 113mm x 115mm(102)  
**Weight:** 451g(106),596g(102)

### Accessories:

4x1.5V "AA" batteries, Carrying case and Gift box.

Model BP-102



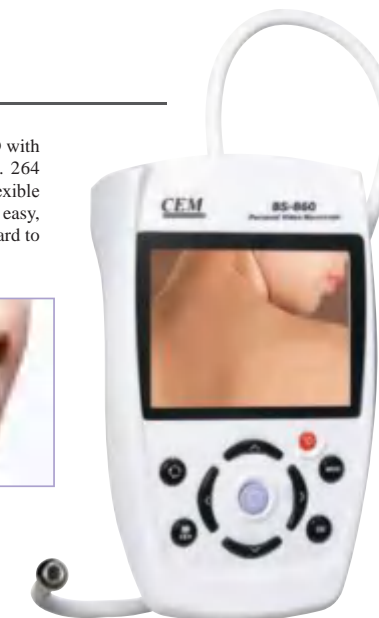
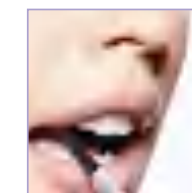
Model BP-106

### BS-860 High Definition Personal Video Borescope

### Features

- 3.5" Color TFT LCD
- Camera and Video function
- Support real-time live view
- TV peripherals to support operations in other
- Highlighted with LED to support the operation in the dark
- Built-in 1800mAh lithium battery, support USB charging
- Standby function to support the charge
- Support rotating the image 180° from top to bottom
- Flexible gooseneck camera head with waterproof

BS-860 personal video borescope using 3.5" TFT LCD with high resolution: 320(W) x 240(H) application of H. 264 video codec technology makes images clearer. The flexible and comfortable waterproof (IP67) goose neck provide easy, simple and convenient way to check the place where hard to see.



Model 860

### Specifications

LCD screen type	3.5" TFT
LCD Pixels	320x240
The max number of frames(FPS)	30FPS/S
Picture format from the camera	JPG(640x480)
Camera video format	AVI
Gooseneck length	1m(39")
Camera diameter	6mm(0.23")
Viewing distance	15cm to ∞
Viewing direction	Viewing angle 64°
Zoom and Rotation	2xZoom, 90° rotation
SD card	2GB/Max 32GB
Dust and water proof	IP 67
Working voltage	Li Battery 3.7V/1800mA
Language	Support English,French,German, Spanish

**Size(HxWxD):** 120mm x 87mm x 185mm **Accessories:**  
**Weight:** 584g 3.7V Li battery, gift box with carrying case.

3.5"Color TFT LCD

Flexible gooseneck imager head with waterproof and Easily perform visual inspections in hard to reach areas

Camera and Video function

Allows user to view image and video on LCD monitor

High visibility and 10 degree adjustable LED lighting

Rechargeable battery with USB cable Support SD memory card expansion

Menu with multinational language

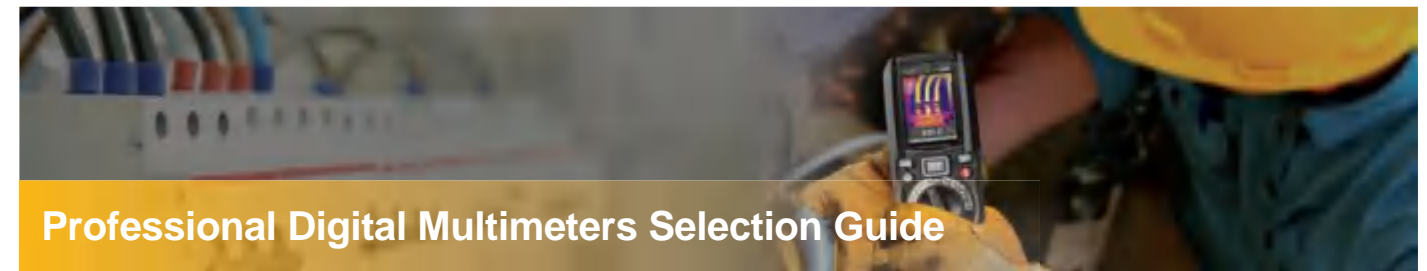


# Professional Digital Multimeters

Digital multimeter (DMMs) is a professional electrical engineers or electrical maintenance technicians essential tools, can help you quickly and accurately diagnose and troubleshoot all kinds of circuit problems. Every industrial instrument has been tested to the extreme: drop, shock, humidity, you name it. Each digital multimeter gives you what you need: accurate measurement; Consistent, reliable performance; Pay attention to safety; And the strongest assurance



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



## Professional Digital Multimeters Selection Guide



### Professional True RMS Industrial Multimeter with InfraRed Thermal Imager

9889 is a professional True RMS digital multimeter and built-in 80 x 80 thermal imager ideal for commercial electricians, automation, electronics, field service, and HVAC work etc. It can visually find the precise location of an electrical problem without direct contact and pinpoint hot spots faster, safer, and more efficiently. Thermview+ software & cloud sever support the Bluetooth function, the measured data can easily transferred to customers' smartphone for edit and storage.



### Professional True RMS Multimeter Built-in Oscilloscope

9989 is True RMS multimeter + Oscilloscope + Data logger + Low pass filter + Trend Capture feature, all in one! CEM DT-9989 professional multi-purpose instrument is outgoing right-hand product for engineers. It can quickly solve complex problems in electronics, factory automation, power distribution and electronic engineering equipment etc. TFT color LCD display + IP67 dustproof and waterproof + Bluetooth interface to smartphone/ PC bring you a better experience.



### Heavy Duty True RMS Industrial Multimeter with Backlight

965BT with automatic backlight for LCD, buttons and knob switch, it is the perfect multimeter for weak light or night use. Protection against water rating IP67 and plus the strong flashlight, it is more safe and reliable.



### 50,000 counts True RMS Industrial Multimeter with Bluetooth

DT-989 HEAVY DUTY True RMS industrial digital multimeter with 50,000 counts TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and trend capture features. Offering low pass filter to help user accurately analyze non-traditional sine waves and noisy signals. It is easy to find and solve the electrical challenges. It features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



### Heavy Duty True RMS Industrial Multimeters with VFD Measurement

DT-9560/9561/9562/9663H heavy duty industrial digital multimeter with VFD measurement, the advanced variable frequency drive filtering to help user accurately analyze non-traditional sine waves and noisy signals. It also offers comprehensive features like  $\mu$ A current measurement capability and durable design for quick and safe troubleshooting of electrical, electronic, and HVAC/R systems. It can assess temperatures up to 1000°C (1832°F) with the Type-K thermocouple. Protection against water rating IP67 is more safe and reliable.

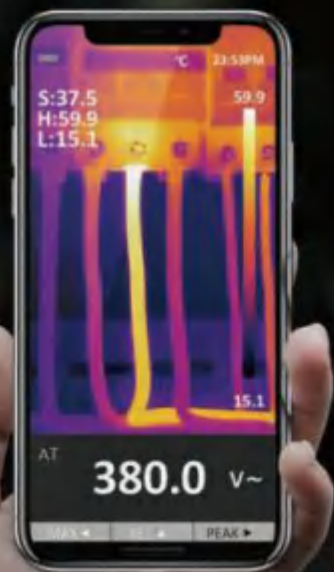


# Professional True RMS Industrial Multimeter

Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Support **Images** capture capabilities
- Support **MicroSD** memory card extension
- Data Logger
- Date/Time** setup controls



- TFT color LCD display
- PC Calibration

- IP65 dust and water proof
- True RMS

9889 Professional True RMS Industrial Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy, with datalogging and Trend Capture features. Advanced system platform permits smart multifunctions such as updating software on line, PC calibration etc.

Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

### Features

- Built-in Thermal Imager design quickly identifies hot spots without contact
- 240 x 320 2.8" TFT color LCD display
- Large LCD display 6000 counts
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- Long work time with li-ion battery
- AC, AC+DC true-RMS measurements & 1kHz ACV, ACA bandwidth
- 3000A Flexible Coil Current Measurements
- A/D convert fast sampling time: 10 Times/sec.
- Peak capture (records transients as fast as 500µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- MicroSD memory card
- Support capture screen capabilities
- 80x80 Infrared resolution
- Bluetooth BLE instant share function
- Easy to view and analyze images quickly
- Non-Contact Voltage detection (VAC:100V~1000V)

### Specifications

Thermal Imager	
IR resolution	80x80 pixels
Field of View (FOV)	21° x 21°
Thermal sensitivity/NETD	< 0.1°C@ +30°C(+86°F)/100mK
Image frequency	50Hz
Object temperature range	range: -20 to 260°C (-4 to 500°F)
Focus mode	Focus free
Focal length	7.5mm
Spectral range	8-14 µm
Color palettes	IRON/Rainbow/Grey/Grey Inverted
Accuracy	±3°C (±5.4°F) or ±3% of reading (Environment temperature 10°C-35°C, object temperature >0°C. )

True RMS Multimeter Functions			
Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1000V	100mV	±(0.09% + 5)
Voltage AC	1000V	100mV	±(0.8% + 5)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Resistance	60MΩ	0.1Ω	±(0.5% + 5)
Capacitance	6000µF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	8 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 195mm x 80mm x 58mm Weight: 540g

### Accessories:

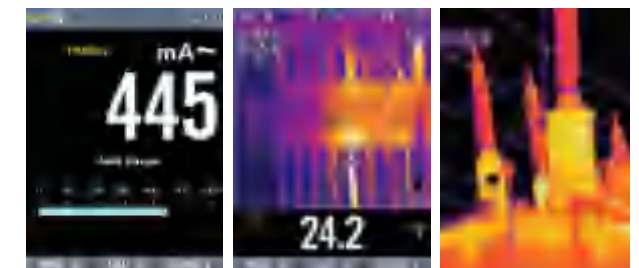
Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9889



**IP65 Dust and Water Proof.**  
2m drop protection, IP65 dust and waterproof extend its service life.



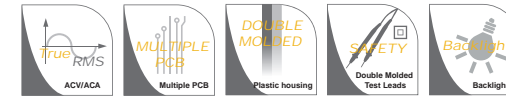
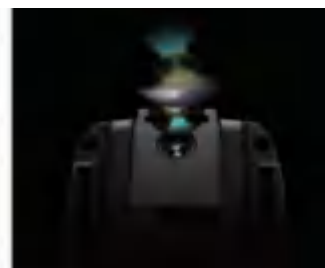
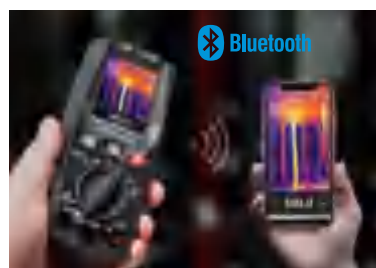
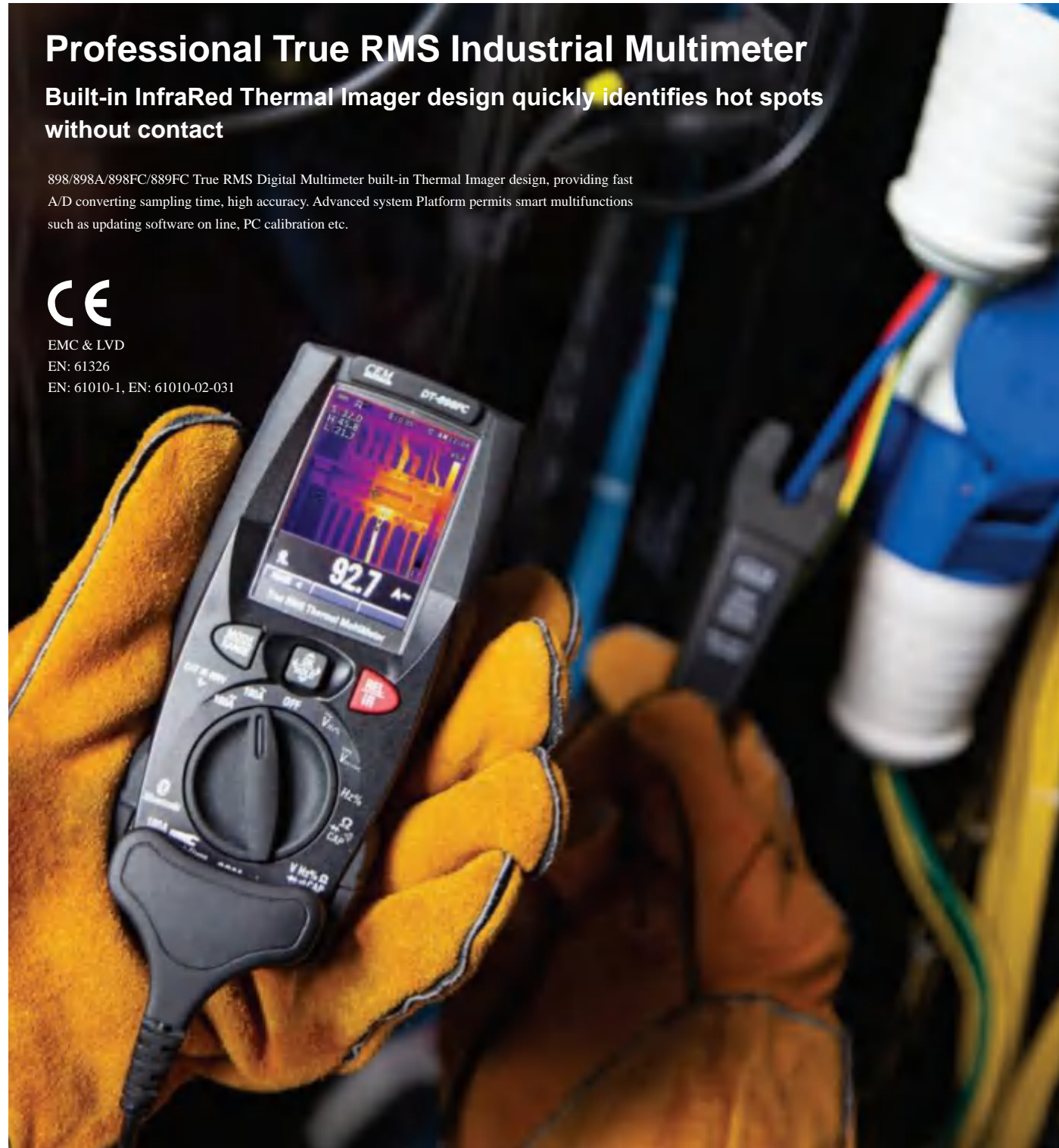
# Professional True RMS Industrial Multimeter

Built-in InfraRed Thermal Imager design quickly identifies hot spots without contact

898/898A/898FC/889FC True RMS Digital Multimeter built-in Thermal Imager design, providing fast A/D converting sampling time, high accuracy. Advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.



EMC & LVD  
EN: 61326  
EN: 61010-1, EN: 61010-02-031



Model 898



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032,  
EN: 61010-02-033



Model 898A



Model 898FC/889FC



## Features

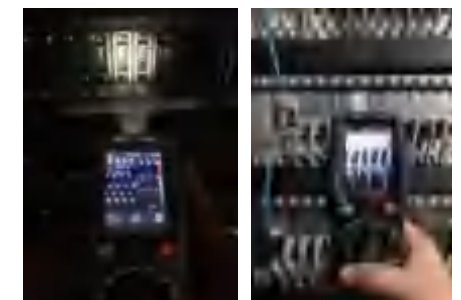
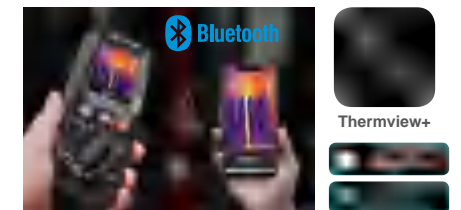
	898	898A	898FC	889FC
0.47" (12mm) Fork clamp sensor for AC/DC 100A current measurement			*	*
Bluetooth interface		*	*	*
Large LCD display 4000 counts with True RMS measurements & flashlight	*	*	*	*
Built-in Thermal Imager design quickly identifies hot spots without contact	*	*	*	*
Logging function with Trend Capture for easy review of logged data (100,000 dot measurements)	*	*	*	
AC, AC+DC True RMS measurement & 1kHz ACV/ACA bandwidth	*	*	*	
240 x 320 2.4" TFT color LCD display	*	*	*	*
Built-in 0.3Megapixels visible light digital camera				*
A/D convert fast sampling time: 3 Times/sec.	*	*	*	*
Peak capture (records transients as fast as 500µs) & Data Hold	*	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*	*
CAT III-600V Category safety rating	CAT III-300V CAT II-600V	*	*	*

## Specifications

	898	898A	898FC	889FC
<b>Thermal Imager</b>				
IR resolution		80x80 pixels		32x32 pixels
Field of View (FOV)	17° x 17°	*		40°x40°
Thermal sensitivity/NETD	< 0.08°C /80mK	*		*
Image frequency	50Hz	*		9Hz
Object temperature range	-20 to 260°C (-4 to 500°F)	*		-20 to 300°C (-4 to 572°F)
Spectral range	8-14 µm			
Color palettes	IRON/Rainbow/Grey/Grey Inverted			
Accuracy	±2°C (±3.6°F) or ±2% of reading			

## True RMS Multimeter Functions

Mode		898	898A	898FC	889FC
Function	Max Range				
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10A	±1.5%	*	*	*
Fork clamp DC current	100A	±3.0%	*	*	*
Current AC	10A	±2.0%	*	*	*
Fork clamp AC current	100A	±3.0%	*	*	*
Resistance	40MΩ	±1.0%	*	*	*
Capacitance	4000µF	±3.0%	*	*	*
Frequency	10MHz	±1.0%	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*
Diode Check & Continuity Test		*	*	*	*



Full visible light (889FC)

Size(HxWxD): 148mm x 68mm x 48mm  
Weight: 348g

Accessories:  
Test leads, Li-ion batteries, Software, gift box with carrying case.



## Professional True RMS Industrial Multimeter / Oscilloscope with TFT color LCD display

9989 Professional True RMS Industrial Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. Meterbox pro software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.



Resistance measurement : 50MΩ  
Capacitance measurement : 10mF



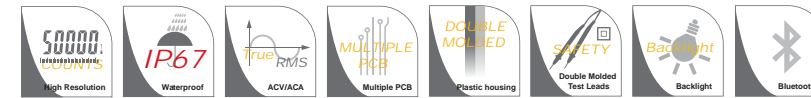
Type K thermocouple temperature function



Built-in digital Oscilloscope and FFT functions



IP67 dust and water proof



- IP67 dust and water proof
- True RMS

- TFT color LCD display
- 50000 counts
- PC Calibration

### Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

### Features

- 50,000 counts 320 x 240 TFT color LCD display
- 20MHz bandwidth and 50ms/s realtime sample rate
- Logging function with trend capture and over 10,000 data logging
- Free software to calibrate accuracy
- 100kHz bandwidth (voltage/current)
- AC, AC+DC True RMS measurements
- 0.025% DCV accuracy with fully PC calibration
- Saves measurements, records events and trends
- 20 times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- Moto winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC

### Specifications

#### Oscilloscope Functions

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	10MHz
Real time sample rate	50MS/s
Risetime	10ns
Channels	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input impedance	1MΩ/15pF
Max Input Volatage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

#### True RMS Multimeter Functions

Function	Max	Max.resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025%+5)
Voltage AC	1000V	1µV	±(0.3%+25)
Current DC	10A	0.01µA	±(0.15%+2)
Current AC	10A	0.01µA	±(0.6%+5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0%+2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05%+2)
Capacitance	10mF	0.001nF	±(2.0%+40)
Frequency	10MHz	0.01Hz	±(0.01%+10)
Diode & Continuity	Yes		
Bluetooth Interface	Smartphone/PC		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

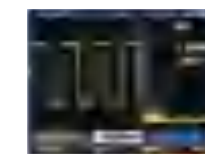
Accessories: Test leads, Li-ion batteries, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



Model 9989



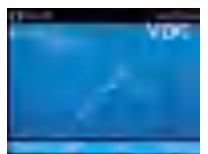
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-2-032  
EN: 61010-2-033



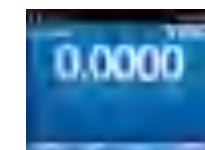
10MHz Oscilloscope Function



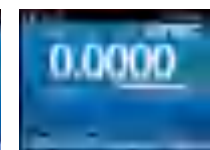
Selectable Multifunction



Trend Capture function



High Resolution & Accuracy



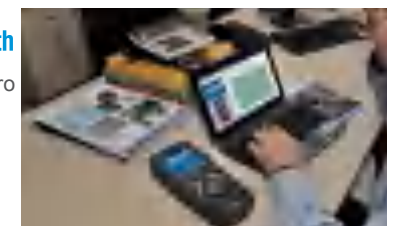
Fast response time



Help Menu

### Bluetooth interface to smartphone /PC

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms







- TFT color LCD display
- 50000 counts
- PC Calibration

- IP67 dust and water proof
- True RMS



Model 9987



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The 9987 Professional True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memory the datasheets. It is much safer measurements with double molded plastic housing design and IP67 waterproof.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

Large 50,000 count 320 x 240 TFT color LCD display
Logging function with Trend Capture for easy review of logged data
Bluetooth interface for easy data transfer & accuracy calibration
100kHz bandwidth (voltage/current)
AC, AC+DC True-RMS measurements
Records events and trends
Saves measurements
A/D convert fast sampling time
Peak capture (records transients as fast as 250µs)
Min/Max/Average with Time stamp (records signal fluctuations)
Moto winding and low ohm 50Ω measurement range
4-20mA process loop measurements with % reading
Low pass filter
IP Rating 67
Meterbox pro & cloud service

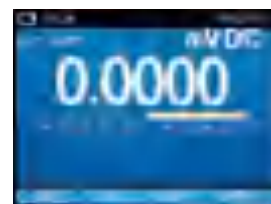
**Specifications**

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

**Accessories:**

Test leads, Li-ion batteries, Type K temperature probe, AC Adaptor Software, gift box with carrying case.



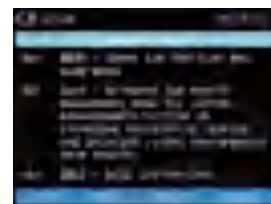
Fast response time



Trend Capture function



High Resolution & Accuracy



Help Menu



- IP67 dust and water proof
- True RMS

- Full Graphics LCD display
- 50000 counts
- PC Calibration

9979 Professional True RMS Industrial Digital Multimeter with 50,000 counts and full Graphics Type LCD display with white backlight, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can monitor any problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memory the datasheets. It is much safer measurements with double molded plastic housing design and IP67 waterproof function.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

Large 50,000 counts, Full Graphics Type LCD display with white backlight. Multiple sets of measurement information can simultaneously be displayed at the same time.
Voltage (DC/AC), current(DC/AC), resistor, diode, capacitance, frequency and duty cycle measurement
Ability to record data of signals and review Trend Capture curve, monitoring while you work on other project, it plots measurements as a single line to help detect signal anomalies over time; store up to 10,000 recorded events
Log multiple sessions or log data continuously for over 200 hours.
Real Time Clock – for automatic time stamping of saved readings
Expandable meter lets you keep current as new capabilities are added
Allow to save and name the measurements, and also recall them at any time
Min/Max/Average with Time Stamp to record signal fluctuations
Auto zeroing function
Soft keys, scroll buttons much more secondary functions to access in easily
TRMS AC voltage and current for accurate measurements on complex signals or non-linear loads.
Measure up to 10A (20 A for 30 seconds; 10A continuous)
Peak hold function with calibration mode
10MHz Frequency counter and 1MHz duty cycle measurement
IP67 Waterproof and Auto Power Off
Bluetooth interface
Meterbox pro & cloud service

**Specifications**

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.3% + 20)
Current DC	10A	0.01µA	±(0.10% + 5)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 5)
Capacitance	10mF	0.001nF	±(2.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 5)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	18 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

**Accessories:**

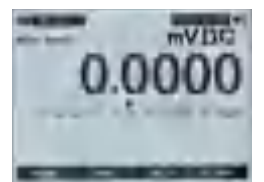
Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



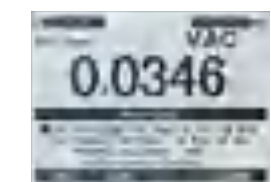
Model 9979



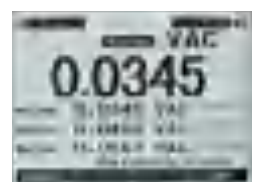
Trend Capture function



Fast Response time



Real-time data Recording



Multifunction selectable





Model 9978  
Meterbox Pro

**CE**  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



9978 is the new Professional Digital Multimeter which provides safer measurements with double molded plastic housing design and IP67 waterproof function. 9978 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that data are easy to read under all circumstances.

Meterbox pro software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



**Specifications**

Model		9970	9971	9978
	Max. Range		Best Accuracy	
DC Voltage (v)	1000V	±(0.1%+8)	±(0.05%+5)	±(0.025% + 5)
AC Voltage (v)	1000V	±(0.8%+40)	±(0.6%+40)	±(0.4% + 40)
DC Current (A)	10A	±(0.2%+20)	±(0.15%+20)	±(0.15% + 2)
AC Current (A)	10A	±(1%+15)	±(0.8%+15)	±(0.6% + 5)
Resistance (Ω)	50MΩ	±(0.5%+20)	±(0.4%+20)	±(0.05% + 2)
Capacitance (F)	10mF	±(1.5%+20)	±(0.2%+20)	±(1.0% + 5)
Frequency (HZ)	10MHZ	±(0.1%+15)	±(0.1%+15)	±(0.005% + 1)
Temperature(°C)	-40°C~1000°C		±(1.0%+30)	±(1.0% + 2.5°)
Temperature (°F)	-40°F~1832°F		±(1.5%+50)	±(1.0% + 2.5°)

**Features**

		9970	9971	9978
3.5" LCD Display Count		30,000	30,000	50,000
True RMS and Auto Range		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging		*	100	*
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analogue Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%		±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current Measurement Alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm

Weight: 631g

Accessories: Test leads, 6x1.5V "AAA" batteries, Type K temperature probe(9971), gift box with carrying case and Software



Model 9970



Model 9971



Model 9972

9972/9973/9974 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9972/9973/9974 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and 0.025% basic DC accuracy within the reach of more customers.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.

**CE**  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



• IP67 dust and water proof  
• True RMS

• Bluetooth interface  
• 50000 counts  
• PC Calibration



**Specifications**

Model		9972	9973	9974
	Range			
	Best Accuracy			
DC Voltage (v)	500mV/5V/50V/500V/1000V	±(0.025%+5)	±(0.025%+5)	±(0.025%+5)
AC Voltage (v)	500mV/5V/50V/500V/1000V	±(0.4%+30)	±(0.4%+30)	±(0.4%+30)
DC Current (A)	500μA/5000μA/50mA/500mA/10A	±(0.1%+15)	±(0.15%+15)	±(0.1%+15)
AC Current (A)	500μA/5000μA/50mA/500mA/10A	±(0.7%+15)	±(0.7%+15)	±(0.7%+15)
Resistance (Ω)	500Ω/5KΩ/50KΩ/500KΩ/5MΩ/50MΩ	±(0.3%+8)	±(0.3%+8)	±(0.3%+8)
Capacitance (F)	50nF/500nF/5μF/50μF/500μF/5mF/50mF	±(1%+20)	±(1%+20)	±(1%+20)
Frequency (Hz)	10Hz-10MHz	±(0.01%+8)	±(0.01%+8)	±(0.01%+8)
Temperature(°C)	-40°C~1000°C	±(1%+30)	±(1%+30)	±(1%+30)
Temperature (°F)	-40°F~1832°F	±(1.5%+50)	±(1.5%+50)	±(1.5%+50)
Power (W)	2500W			±(2%+5)

**Features**

		9972	9973	9974
3.5" LCD Display Count		50,000	50,000	50,000
Auto Range		*	*	*
True RMS		*	*	*
Bandwidth (Hz)	100KHz	*	*	*
Duty Cycle	10%~90%	±(1%+30)	±(1%+30)	±(1%+30)
Diode		*	*	*
Auto Power Off		*	*	*
Continuity Buzzer		*	*	*
Low battery indication		*	*	*
Data Hold		*	*	*
Relative Mode		*	*	*
MAX/MIN		*	*	*
Data logging		100	9999	100
Bluetooth Interface		*	*	*
Double Backlight		*	*	*
Analogue Bar Graph		*	*	*
Full Icon Display		*	*	*
Setup		*	*	*
Input Impedance for DCV/ACV	10MΩ	*	*	*
4-20mA Loop	0~100%	±(1%+50)	±(1%+50)	±(1%+50)
10A/1000V & 0.5A/1000V fuses protection on current ranges		*	*	*
Current Measurement Alarm		*	*	*
Voltage & Current AC+DC Measurement		*	*	*

Size(HxWxD): 220mm x 96mm x 60mm

Weight: 631g

Accessories:

Test leads, 6x1.5V "AAA" batteries, Type K temperature probe, power adaptor(9974) gift box with carrying case and Software



Model 9973



Model 9974



# Heavy Duty True RMS Industrial Multimeter with TFT color LCD display

## Features

- Bluetooth interface
- Fully PC Calibration
- Fast response time 10/sec
- 100kHz AC bandwidth
- Heavy duty & compact size
- CATIV 600V/ CATIII 1000V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The 989 Heavy duty True RMS Industrial Digital Multimeter with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memory the datasheets. It is much safer measurements with double molded plastic housing design.

- Safety Conformance**
- EN61010-1 CAT IV 600V, CAT III 1000V
  - 1000V input protection on all ranges
  - 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features	989	989H
Large 50,000 count 320 x 240 TFT color LCD display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Graph 100 Data review	*	*
Bluetooth interface for easy data transfer & accuracy calibration	*	*
10kHz bandwidth (voltage/current)	*	100kHz
AC, ACV+DCV True-RMS measurements	*	*
Records events and trends	*	*
Saves measurements	*	*
10times/sec A/D convert fast sampling time	*	*
Peak capture (records transients as fast as 250µs)	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Date indication	*	*
Meterbox Pro & cloud service	*	*
2m drop proof	*	*

Specifications	Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	10mV	±(0.05% + 5)	
Voltage AC	1000V	10mV	±(0.5% + 5)	
Current DC	10A	10µA	±(0.2% + 5)	
Current AC	10A	10µA	±(0.8% + 5)	
Temperature	-200°C to 1350°C	0.1°C	±(1.0% + 3°C)	
Resistance	50MΩ	10mΩ	±(0.2% + 10)	
Capacitance	10mF	0.001nF	±(1.0% + 8)	
Frequency	10MHz	0.0001Hz	±(0.01% + 5)	
Diode and Continuity	Yes			
PC Interface	Bluetooth			
Power Supply	7.4V Li-ion rechargeable battery; AC Adaptor			

**Size(HxWxD):** 170mm x 79mm x 50mm **Weight:** 360g  
**Accessories:** Test leads, Li-ion batteries, Type K temperature probe, Software, Power Adaptor, gift box with carrying case.

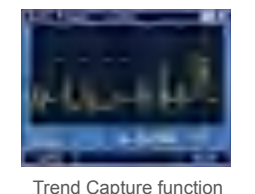
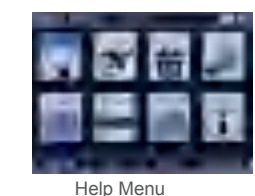


- Bluetooth Meterbox Pro
- True RMS
- TFT color LCD display
- 50000 counts
- PC Calibration

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 989



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms





• True RMS

- TFT color LCD display
- 6000 counts
- PC Calibration



Model 988H



The 988H Heavy duty True RMS Industrial Digital Multimeters with TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments, providing Bluetooth technology and memory the datasheets. It is much safer measurements with double molded plastic housing design.

**Features**

- Large 6000 counts 320 x 240 TFT color LCD display
- Logging function with Trend Capture for easy review of logged data
- Graph 100 Data review
- Bluetooth interface for easy data transfer & accuracy calibration (Optional)
- 1kHz bandwidth (voltage/current)
- AC ACV+DCV True RMS measurement
- Setup function & save measurement
- Fast sampling time
- Peak capture (records transients as fast as 500µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- 4-20mA process loop measurements with % reading
- Meterbox Pro & cloud service

**Specifications**

Function	Maximum	Max Resolution	Basic accuracy
Voltage DC	1000V	100mV	±(0.1% + 5)
Voltage AC	1000V	100mV	±(0.9% + 5)
Voltage AC+DC	1000V	100mV	±(3.0% + 20)
Current DC	10A	0.1µA	±(0.9% + 5)
Current AC	10A	0.1µA	±(1.2% + 5)
Temperature	1350°C/2462°F	0.1°C/°F	±(1.2% + 3°)
Resistance	60MΩ	0.1Ω	±(0.8% + 5)
Capacitance	10mF	0.01nF	±(1.2% + 8)
Frequency	10MHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	7.4V Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 170mm x 79mm x 50mm Weight: 360g

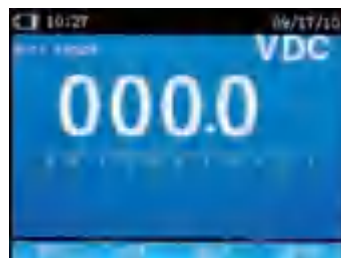
Accessories: Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



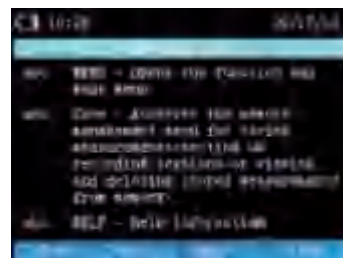
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



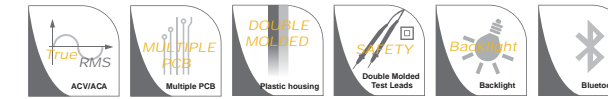
Fast response time



High Resolution & Accuracy



Help Menu



• True RMS

• 6000/60000 counts

The 985/987A Heavy duty True RMS Industrial Digital Multimeters with providing fast A/D converting sampling time, high accuracy. It can trace any interrupted problems of the equipments and watch on without person. It is easy to find and solve the problems of the production equipments. It is much more safe measurements with double molded plastic housing design.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges



**Features**

	985	987A	987BT	987H
Large 60,000/6000 count LCD display with analog bargraph & backlight		*	*	*
10kHz bandwidth (voltage/current)	*	*	*	100kHz
AC True-RMS measurements	*	*	*	*
Low pass filter (VFD)		*	*	
A/D convert fast sampling time	*	*	*	*
Peak capture (records transients as fast as 500µs)	*	*	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*	*	*
Bluetooth interface for easy data transfer & accuracy calibration			*	*
4-20mA process loop measurements with % reading			*	*

**Specifications**

Function	Maximum	Max, resolution	Basic Accuracy	985	987A	987BT	987H
Voltage DC	1000V	10mV	±(0.9% + 5)	*	*	*	*
		100mV					
Voltage AC	1000V	10mV	±(1.0% + 5)	*	*	*	*
		100mV					
Current DC	10A	0.01µA	±(1.5% + 5)	*	*	*	*
		0.1µA					
Current AC	10A	0.01µA	±(2.5% + 5)	*	*	*	*
		0.1µA					
Resistance	60MΩ	10 mΩ	±(1.2% + 5)	*	*	*	*
		100 mΩ					
Temperature	760°C/1400°F	0.1°C/°F	±(2.0% + 3°)	*	*	*	*
Capacitance	10mF	0.01nF	±(2.5% + 5)	*	*	*	*
Frequency	10MHz	0.01Hz	±(1.0% + 2)	*	*	*	*
Diode and Continuity	Yes						
Power Supply	1.5Vx4 "AAA" batteries.						

Size(HxWxD): 170mm x 79mm x 50mm

Weight: 360g

Accessories: Test leads, Batteries, Type K temperature probe, Software, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 985



Model 987A



Model 987BT





EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

965 Series are new compact meters with double molded plastic housing and over sized high contrast 6000 counts LCD display. They are all CAT IV 600V/CATIII 1000V.



Model 965



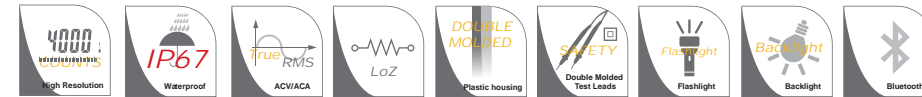
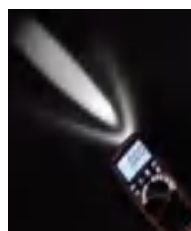
Model 965BT

Meterbox Pro

Specifications				
Model	Range	965	965T	965BT
DC Voltage (V)	600mV/6V/60V/600V/1000V	±(0.5%+1)	±(0.5%+1)	±(0.1%+2)
AC Voltage (V)	600mV/6V/60V/600V/1000V	±(1.0%+3)	±(1.0%+3)	±(0.8%+10)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(0.5%+10)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.2%+3)	±(1.2%+3)	±(0.8%+3)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4µF/40µF/400µF/4000µF	±(3.0%+5)		
	60nF/600nF/6µF/60µF/600µF/6000µF		±(3.0%+5)	±(3.0%+10)
Frequency(Hz)	10Hz-10KHz	±(0.1%+5)	±(0.1%+5)	±(0.01%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.8%+4°F)
Features				
Display Count		6000	6000	6000
Auto Range		*	*	*
True RMS			*	*
Bandwidth(Hz)		45Hz-1kHz	45Hz-1kHz	45Hz-1kHz
Duty Cycle	0.1~99.9%	*	*	*
Diode		*	*	*
Auto Power Off	Around 15 Minutes	*	*	*
Continuity Buzzer		*	*	*
Low Battery Indication	≤4.5V	*	*	*
Data Hold/Relative Mode		*	*	*
MAX/MIN/AVG		MAX/MIN	MAX/MIN	MAX/MIN/AVG
AC+DC				*
Peak Value			*	*
Bluetooth interface with Meterbox pro software				*
Automatic backlight for LCD, Button, knob Switch & Flashlight		*	*	*
Analogue Bar Graph		61	61	61
Low input Impedance for DCV/ACV measurements	>3kΩ @ 600V MAX.		*	*
Input Protection		*	*	*
Input Impedance for DCV	Around 10MΩ	*	*	*
IP67 Waterproof		*	*	*

Size(HxWxD): 170mm x 74mm x 45mm Weight: 218g

Accessories: Test leads, 1.5AAA x 4 batteries, Temperature Probe, carrying case and gift box.



950 Series are new compact meters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They are all CAT III 600V.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Meterbox Pro  
Model 952BT



Model 951H



Model 950

Specifications						
Model	Range	950	950B	951H	951BT	952BT
DC Voltage (V)	400mV/4V/40V/400V/600V	±(0.8%+2)	±(0.8%+2)	±(0.8%+8)	±(0.8%+1)	±(0.8%+1)
AC Voltage (V)	4V/40V/400V/600V	±(1.0%+3)	±(1.0%+3)	±(1.5%+10)	±(0.8%+10)	±(0.8%+10)
	4A/10A	±(1.0%+3)		±(1.0%+8)	±(0.5%+10)	±(0.5%+10)
DC Current (A)	400µA/4000µA/40mA/400mA		±(1.0%+3)			±(1.0%+3)
	4A/10A	±(1.2%+3)	±(2%+3)	±(2%+3)	±(1.2%+3)	±(12%+3)
AC Current (A)	400µA/4000µA/40mA/400mA		±(1.2%+3)	±(1.5%+3)		±(1.2%+3)
Resistance (Ω)	400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)	±(0.8%+10)
Capacitance (F)	40nF/400nF/4µF/40µF/400µF/4000µF	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+10)	±(3.0%+10)
Frequency(Hz)	10Hz-10MHz	±(1.2%+5)	±(1.2%+5)	±(1.2%+3)	±(1.2%+5)	±(1.2%+5)
Temperature(°C)	-20°C~760°C	±(1.2%+3°C)	±(1.2%+3°C)	±(1.5%+5°C)	±(1.0%+3°C)	±(1.0%+3°C)
Temperature(°F)	-4°F~1400°F	±(2.0%+4°F)	±(2.0%+4°F)	±(1.5%+9°F)	±(1.8%+4°F)	±(1.8%+4°F)

Features				
	950	950B	951H	951BT/952BT
Display Count	4000	4000	4000	4000
Auto Range	*	*	*	*
True RMS			*	*
Bandwidth(Hz)	45Hz-1kHz	45Hz-1kHz	45Hz-400Hz	45Hz-1kHz
Duty Cycle	0.1~99.9%	*	*	*
Diode		*	*	*
Auto Power Off	Around 15 Minutes	*	*	*
Continuity Buzzer		*	*	*
Low Battery Indication	≤3.5V	*	*	*
Data Hold		*	*	*
MAX/MIN		*	*	*
Bluetooth interface with Meterbox pro software				*
LCD Backlight	*	*	*	*
Flashlight	*	*	*	*
Analogue Bar Graph	41	41	41	41
Low input Impedance for DCV/ACV measurements	>3kΩ @ 600V MAX.		*	*
Input Protection		*	*	*
Input Impedance for DCV	Around 10MΩ	*	*	*
IP67 Waterproof		*	*	*

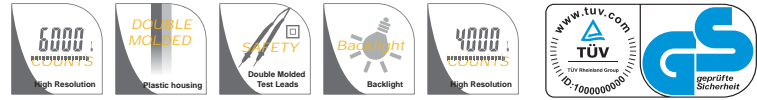
Size(HxWxD): 150mm x 65mm x 38mm

Weight: 188g

Accessories:

Test leads, 1.5V AAA x 3 batteries, Temperature Probe, carrying case and gift box.





Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- 6000 counts display with LCD Backlight
- True RMS measurement
- 45Hz~1kHz AC Bandwidth
- Diode & Continuity Buzzer
- Auto Power Off
- Low Battery Indication
- Data Hold function
- Auto Ranging
- Max/Min
- Relative Mode
- Input Protection
- IP67 Waterproof



Model 9560



IP67 dust and water proof



2m Drop-proof

Specifications		Best Accuracy	
Model	Range	9560	9561
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)	±(4.0%+3)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99nF/999.9nF/9.999µF/99.99µF/999.9µF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)
Frequency(Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)
Temperature(°C)	-40°C~1000°C		±(3.0%+3)
Temperature(°F)	-40°F~1832°F		±(3.0%+5)

Size(HxWxD): 180mm x 82mm x 55mm Weight: 255g

Accessories: Test leads, 9V battery, temperature probe (9561) and gift box with carrying case.



Features

- Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9562/9664H/9665H)
- Low input impedance prevents false readings due to “ghost voltage” (LoZ) (9664H/9665H)
- 3000A ACA flexible clamp (9664H/9665H)
- Peak Value (9664H/9665H)
- 6000 counts display with LCD backlight
- True RMS Measurement
- 45Hz-1kHz Bandwidth (9562/9663H/9664H)
- 45Hz-10kHz Bandwidth (9665H)
- Duty Cycle 0.1~99.9%
- Diode & Continuity Buzzer
- Auto Ranging & Auto Power Off
- Low Battery Indication ≤7.5V
- Data Hold
- Relative Mode
- Max/Min (9562/9663H)
- 61 Analogue Bar Graph
- Input Protection
- Input Impedance for DCV & ACV (around 10MΩ)
- IP67 Waterproof

Specifications

Model	Range	9562	9663H	9664H	9665H
DC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
AC Voltage (V)	60mV/600mV/6V/60V/600V/1000V	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
VFD	50.0V to 700V	±(4.0%+3)		±(4.0%+3)	±(4.0%+3)
Loz (V)	600V DC/AC			±(3.0%+30)	±(3.0%+30)
DC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
AC Current (A)	600µA/6000µA/60mA/600mA/6A/10A	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Flexible Coil Current 3000A	3000A			±(3.0%+5)	±(3.0%+5)
Resistance (Ω)	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	±(0.8%+2)	±(0.8%+5)	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99nF/999.9nF/9.999µF/99.99µF/999.9µF/9.999mF/99.99mF	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)	±(4.0%+5)
Frequency (Hz)	9.999Hz-9.999MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)
Temperature(°C)	-40°C~1000°C	±(3.0%+3)	±(3.0%+3)	±(3.0%+3)	±(3.0%+3)
Temperature(°F)	+40°F~1832°F	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)	±(3.0%+5)

Size(HxWxD): 180mm x 82mm x 57mm Weight: 255g

Accessories: Test leads, 9V battery, temperature probe, carrying case and gift box.



# Professional True RMS Industrial Digital Multimeters

**CE**

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

**Meterbox pro Software**  
for DT-9959 DMM

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- User can annotate and save each measurement
- Data can be shared to e-mail and other platforms



9919/9929/9939/9949/9959 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9949/9959 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that datas are easy to read under all circumstances.

All inputs are protected to EN 610101-1 CATIV 600V/CATIII 1000V.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges

- Bluetooth interface (9959)
- 50000 counts
- PC Calibration

- IP67 dust and water proof
- True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	9919	9929	9939	9949	9959
20,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)					
40,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)	*	*	*		
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)				*	*
Triple LCD display with bargraph & Backlit		*	*		*
AC+DC Measurement		*	*		*
9999 Readings memories		*	*		*
True RMS measurement & Peak capture mode	*	*	*	*	*
1000V input protection on all ranges	*	*	*	*	*
4-20mA process loop measurements with % reading	*	*	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*	*	*
Wide capacitance range	*	*	*	*	*
Wireless USB interface				*	
Bluetooth interface with Meterbox pro software					*

**Specifications**

Function	Max. Range	Max. Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (9949/9959) ±0.06% (9929/9939) ±0.06% (9919/9919B)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	40MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	40mF	10PF	±3.5%
Temperature	1200°C/2192°F/ 760°C/1400°F(9919)	0.1°C/°F	±1.0%
Diode Check			
Continuity Test			

**Size(HxWxD):** 183mm x 82mm x 55mm **Weight:** 447g

**Accessories:** Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software (9959)

USB cable and Software (9939)



Model 9959



Model 9929/9939



Model 9949



Model 9919







Model 9918



Model 9915H



Model 9917H



True RMS

IP67 dust and water proof

They set the standard with a combination of precision, features, easy-to-use, safety and reliability.

Have True RMS AC Voltage, Current readings, as well as Frequency and Capacitance ranges.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

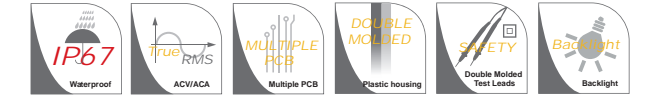
	9915H	9917H	9918T
Digital LCD display counts	6000	6000	4000
True RMS measurement	*	*	*
Temperature measurement		*	*
IP67 & Safety design	*	*	*
Relative zero	*	*	*
Wide capacitance range	*	*	*
Max/Min recording mode & Data Hold	*	*	*
Auto Power Off & Backlight	*	*	*
AC/DC current clamp-on adaptor input	*	*	*
Peak capture mode			*
Analog bargraph/segment			*

**Specifications**

Function	Max. Range	Basic Accuracy	9915H	9917H	9918T
Voltage DC	1000 V	±0.5%+5digits	*	*	*
Voltage AC	1000V	±0.8%+3digits	*	*	*
Current DC	10A	±1.0%+3digits	*	*	*
Current AC	10A	±1.5%+3digits	*	*	*
Resistance	60MΩ	±0.8%+2digits	*	*	*
Duty Cycle	99.9%	±1.2%+2digits	*	*	*
Frequency	9.999MHz	±1.0%+5digits	*	*	*
Capacitance	99.99mF	±4.0%+5digits	*	*	40mF
Temperature	1300°C/2372°F	±3.0%+5°C/9°F		*	*
AC/DC current clamp-on adaptor input					40A/400A
Diode Check			*	*	*
Continuity Test			*	*	*

Size(HxWxD): 182mm x 82mm x 55mm Weight: 360g

Accessories: Test leads and 9V battery, Type K temperature probe (9918T), gift box with carrying case.



9926, 9927 & 9927T series are the new 6000 counts multimeters. They are a combination of precision, features, easy-to-use, safety and reliability.

9928/9928T are the new 11,000 counts and 9938 is the new 22,000 counts multimeter. They are a combination of precision, features, easy-to-use, safety and reliability.

9927T/9928T has True RMS AC Voltage and Current readings, MAX-MIN recording.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	9926	9927	9927T	9928	9928T	9938
Digital display counts	6000	6000	6000	11,000	11,000	22,000
Max.Resolution	0.1mV/0.1μA/0.1Ω			0.01mV/0.01μA/0.01Ω		
True RMS measurement			*		*	*
Analog bargraph/segment	*/61	*/61	*/61			*
Safety design	*	*	*	*	*	*
Relative mode	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*
MAX/MIN recording mode	*	*	*	*	*	*
Auto Ranging	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Wide capacitance range	1000μF	1000μF	1000μF	110mF	110mF	*
Temperature function		*	*	*	*	*

**Specifications**

Function	Max. Range	Basic Accuracy
Voltage DC	1000 V	±0.09%
Voltage AC	1000V	±0.8%
Current DC	10A	±1.0%
Current AC	10A	±1.5%
Resistance	40MΩ	±0.3%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±0.1%
Capacitance	40mF	±3.5%
Temperature	760°C/1400°F(9919)	±3.0%
Diode Check		
Continuity Test		

Size(HxWxD): 182mm x 82mm x 55mm  
Weight: 360g

**Accessories:**

Test leads, 9V battery.  
Type K temperature probe and gift box with carrying case.



Model 9927/9927T



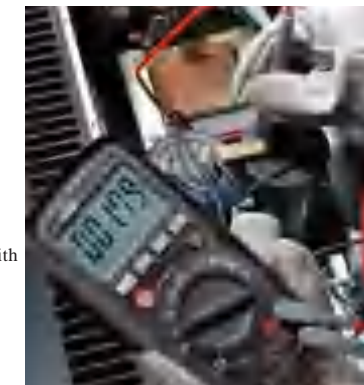
Model 9926



Model 9928/9928T



Model 9938







9968/9968BT are Professional digital multimeters which provide safer measurements with double molded plastic housing design and IP67 waterproof function. 9968/9968BT performance as True RMS AC/DC voltage and current measurement, 6000 counts resolution. The large OLED display with analog bargraph and backlit ensures that readings are easy to read under all circumstances. All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.

• 6,000 counts

IP67 dust and water proof  
True RMS



Model 9968BT

Meterbox Pro



Model 320B



Model 9968



Model 320B

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fast fuses protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

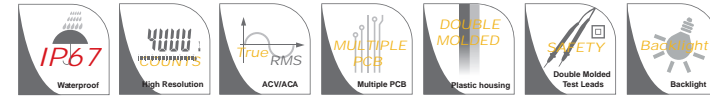
	9968	9968BT
Large 6,000 count OLED display	*	*
Logging function with Trend Capture for easy review of logged data	*	*
Bluetooth interface for easy data transfer		*
2kHz bandwidth (voltage/current)	*	*
AC, ACV+DCV True-RMS measurements	*	*
Record events and trends	*	*
Save measurements	*	*
Peak Hold	*	*
Min/Max/Average with Time stamp (records signal fluctuations)	*	*
4-20mA process loop measurements with % reading	*	*
Battery capacity indication	*	*
Flexible Current test (320B optional)	*	*
Date indication	*	*
Bluetooth interface		*
Meterbox pro & cloud service		*

**Specifications**

Function	Maximum	Max. resolution	Accuracy
Voltage DC	1000V	100mV	±(0.9% + 4)
Voltage AC	1000V	100mV	±(1.0% + 40)
Current DC	10A	0.1µA	±(1.8% + 5)
Current AC	10A	0.1µA	±(2.0% + 5)
Flexible A	3000A	0.01A	±(3.0%+5d)
Temperature	-20°C to 1000°C	0.1°C	±(2.0% + 3°C)
Resistance	60MΩ	0.1Ω	±(1% + 5)
Capacitance	60mF	0.01nF	±(2.0% + 10)
Frequency	10MHz	0.01Hz	±(0.5% + 4)
Diode	Max 3V Test current <0.5mA		
Continuity	Buzzer sounds at 50Ω		

Size(HxWxD): 170mm x 79mm x 50mm Weight: 342g

Accessories: Test leads, 9V battery.  
Type K temperature probe and gift box.



9969 is a Professional digital multimeter with 50000 counts resolution and a 0.06% basic DC accuracy within the reach of more customers.

9967/9967T series are the new 6600 counts multimeters. They are a combination of precision, easy-to-use, safety and reliability.

9967T has True RMS AC Voltage, Current readings, MAX-MIN recording, as well as Frequency and Capacitance readings.

All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



• PC Calibration  
• 50,000 counts

• IP67 dust and water proof  
• True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9969



Bluetooth

Meterbox Pro

Remote measurement of voltage, current, resistance, capacitance and other electrical parameter  
Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored  
User can annotate and save each measurement  
Data can be shared to e-mail and other platforms

**Features**

	9967	9967T	9969
Digital display counts	6600	6600	50,000
50,000 counts high resolution (0.001mV, 0.01µA, 0.01Ω)			*
True RMS measurement		*	*
1000V input protection on all ranges	*	*	*
Data Hold/ MAX/MIN /Relative function	*	*	*
Auto Power Off	*	*	*
Analog bargraph & segment	*	*	*
NCV Function	*	*	*

**Specifications**

Function	Max. Range	Basic Accuracy	9967	9967T	9969
Voltage DC	1000 V	±0.5%	*	*	±0.06%
Voltage AC	1000V	±0.8%	*	*	±1.0%
Current DC	10A	±1.2%	*	*	±1.0%
Current AC	10A	±1.8%	*	*	±1.5%
Resistance	60MΩ	±0.8%	*	*	±0.3%
Duty Cycle	99.9%	±1.2%	*	*	±1.2%
Frequency	10MHz	±1.5%	*	*	±0.1%
Capacitance	100µF/60mF	±3.0%	*	*	±3.5%
Temperature	760°C/1400°F	±3.0%	*	*	±1.0%
Diode Check			*	*	*
Continuity Test			*	*	*

Size(HxWxD): 170mm x 79mm x 50mm Weight: 366g

Accessories: Test leads, 9V battery.  
Type K temperature probe and gift box.



Model 9967





Model 9960H      Model 9961H      Model 9964H      Model 9965H



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Digital display counts	4000	6000	4000	6000	4000	6000	6000	6000
True RMS measurement	*	*	9961W	*	9962T	9963T	*	*
Safety design	*	*	*	*	*	*	*	*
Relative zero	*	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*	*
MAX/MIN recording mode		*		*	*	*	*	*
VFD function							*	*
Current Clamp AC/DC 60A							*	
Auto Power Off	*	*	*	*	*	*	*	*
Peak capture mode					*			
Wide capacitance range		99.99mF		99.99mF	40mF	1000uF	99.99mF	99.99mF
Analog bargraph/segment					*/42	*/61	61	61
NCV Function	*	*	*	*	*	*	*	*
Live test		*		*				
Low input Impedance				*			*	

Specifications	Max. Range	Basic Accuracy	9960	9960H	9961/9961W	9961H	9962/9962T	9963/9963T	9964H	9965H
Voltage DC	1000 V	±0.5%	*	*	*	*	*	*	*	*
Voltage AC	1000V	±0.8%	*	*	*	*	*	*	*	*
Current DC	10A	±1.2%	*	±1.0%	*	±1.0%	*	*	±1.0%	±1.0%
Current AC	10A	±1.8%	*	±1.5%	*	±1.5%	*	*	±1.5%	±1.5%
Current Clamp DC	60A	±1.0%							*	
Current Clamp AC	60A	±1.2%							*	
VFD function	700V AC	±4.0%							*	*
Resistance	40MΩ	±0.8%	*	60MΩ	*	60MΩ	*	*	60MΩ	60MΩ
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*	*
Frequency	10MHz	±1.5%	*	*	*	*	*	*	*	*
Capacitance	100µF/40mF	±3.0%	100µF	99.99mF	100µF	99.99mF	40mF	1000µF	99.99mF	99.99mF
Temperature	760°C/1400°F	±3.0%		1000°C/1382°F	*	1000°C/1382°F	*	*	1000°C/1382°F	1000°C/1382°F
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 170mm x 79mm x 50mm      Weight: 366g      Accessories: Test leads, 9V battery. Type K temperature probe without 9960 and gift box.



9515 series Digital Multimeters are compact and simple use for safe and reliable measurements. They are high accuracy and good choose to find and solve problems of the production equipments.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

- CAT IV 600 V safety category
- Large OLED display (9519BT)
- Frequency and temperature measurement
- Voltage, Resistance, Continuity, Capacity measurement
- AC/DC current measurement, Max 10A current
- Diode test, data hold
- Peak Hold

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (9516/9517/9518B/9519BT)

Features	9515	9516	9517	9518B	9519BT
LCD display	LCD	LCD	LCD	LCD	OLED
Backlit Controls	*	*	*	*	*
Range mode	Manual	Auto	Auto	Auto	Auto
ACV+DCV measurements					*
Digital display counts	6000	6000	6000	6000/60000	6000
Analog Bargraph/segments				*	*
AC bandwidth (voltage/current)	1kHz	1kHz	1kHz	10kHz	1kHz
Auto Power Off	*	*	*	*	*
True-RMS measurements	*	*	*	*	*
Flexible A 3000A					*
VFD function		*	*	*	*
Bluetooth interface					*
Flexible Current test					*
Date indication					*
Data storage					*

Specifications	Max. Range	Basic Accuracy	9515	9516	9517	9518B	9519BT
AC Voltage	1000V	1.0% ± 5 counts	*	*	*	*	*
DC Voltage	1000V	0.5% ± 3 counts	*	*	*	*	*
AC Current	10A	2.5% ± 5 counts	*	*	*	*	*
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*
Flex A AC	3000A	3.0% ± 3 counts					*
Resistance	60Meg	2.5% ± 5 counts	*	*	*	*	*
Temperature	-20 to 1000°C -4 to 1832°F	2.5% ± 3°C			*	*	*
Capacitance	6000uF	2.5% ± 5 counts	*	*	*	*	60mF
Duty Cycle	1~99%			*	*	*	*
Frequency	10MHz	1.0% ± 2 counts	*	*	*	*	*
Continuity	50Ω		*	*	*	*	*
LoZ	600V		*	*	*	*	*
Diode Check	MAX 3V		*	*	*	*	*
4-20mA						*	*

Size(HxWxD): 188mm x 90mm x 45mm      Weight: 373g

Accessories: Test leads, 1.5Vx3 "AAA" batteries, Type K temperature probe, 320B option (9518/9519BT), software and gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9515



Model 9517



Model 320B

Model 9519BT



## Compact Digital Multimeters

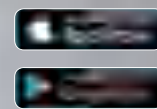


CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-2-032  
EN: 61010-2-033



Meterbox Pro



## Compact Digital Multimeters Selection Guide



### True RMS Compact Digital Multimeter

DT-960/960C compact True RMS digital multimeter is the true tester for construction sites. The sturdy structure design is capable of resisting every shock and keep working with the very same precision and reliability(3m drop tested). It provides with all of the typical functions of everyday use, but also features an in-built flashlight to illuminate poorly lit environments.

DT-960C features Bluetooth technology to connect a compatible smartphone for remote viewing and sharing, software Meterbox Pro can store and analyze the data.



### Compact Digital Multimeters

DT-916H auto range multimeter measures AC and DC voltage and current, resistance, capacitance, frequency, duty cycle and temperature. It also tests continuity, diodes and has a built-in non-contact AC voltage detector. DT-912D manual range multimeter measures AC and DC voltage, DC current, resistance, continuity, diodes and batteries. Readings are displayed on a backlit LCD. They are suitable for commercial electrician, electronics technician, and DIY users.



### Smart True RMS Multimeter with Automatic Selection

DT-946 is a high performance smart digital multimeter with auto selection DC/AC voltage. It provides True RMS readings for more accurate measurements, also check resistance and continuity. It offers a built-in non-contact voltage detection function 50V~600V and a built-in LED flashlight offers convenience in poorly lit environments. The Autohold feature automatically holds the reading on the display when the leads are connected to the circuit being tested.



### CAT IV 600V Pocket Multimeter with NCV Tester

DT-218 CAT IV 600V pocket multimeter with double molded plastic housing and designed with non-contact voltage detection function (VAC: 100V~600V). It measures AC and DC voltage and current, resistance, continuity, capacitance, frequency, duty cycle and diode test. A built-in LED flashlight offers convenience in poorly lit environments.



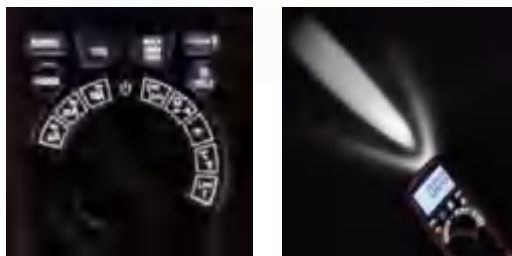
### Pocket Digital Multimeters

DT-913B/913T/915T compact digital multimeter with tuber holster housing. It measures AC and DC voltage and current, resistance, continuity and diode test etc. They are all CAT III 600V rated. DT-915T has high contrast 6000 counts LCD display. It offers advanced variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals.



# Compact 6000 Counts True RMS Multimeter with Backlight

- Built-in kick stand frees up hands allowing you to work safely and efficiently
- Designed to withstand the rugged environment of a work site and has been drop tested up to 2 meters
- CAT III 600V safety rating



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model  
927H/928BT



927 compat 600V True RMS 13-function auto-ranging multimeter with built-in NCV and Live detector.

926 is durable and attractive 600V multimeter for the beginning electrician. 7 Measurement functions including AC and DC voltage, DC current, resistance, diode test, battery test, and continuity provide the capability to tackle any basic electrical task.

	GOOD	LOW	BAD
1.5V	> 1.3V	0.95 to 1.3V	< 0.95V
9V	> 7.7V	5.7 to 7.7V	< 5.7V

### Features

	926A	926	927A	927	927H	928BT
Digital display counts with backlit	2000	2000	4000	4000	6000	6000
True RMS measurement	*	*	*	*	*	*
Range selection	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold			*	*	*	*
0.1~99.9% Duty Cycle measurement				*	*	*
Diode & Continuity buzzer check	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Display backlight			*	*	*	*
Data Hold/REL measurement	*	*	*	*	*	*
Fast and accurate capacitance measurement				*		
Non-Contact ACV & ACV Live detection			*	*	*	*
Backlight for LCD, Knob Switch, Flashlight					*	*
1.5V and 9V battery test	*	*		*		
Full ranges protection	*	*	*	*	*	*
Drop tested up to 2 meters	*	*	*	*	*	*
Square wave signal output					*	*
Low input Impedance (around 3kΩ)					*	*
Bluetooth interface with Meterbox Pro software						*

### Specifications

Function	Max Range	Basic Accuracy	926A	926	927A	927	927H	928BT
Voltage DC	600V	±0.5%	*	*	*	*	1000V	1000V
Voltage AC	600V	±1.2%	*	*	*	*	1000V	1000V
Current DC	10A	±1.5%	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	*				
	40MΩ	±3.0%			*	*	60MΩ	60MΩ
Capacitance	100mF	±3.5%			4mF	*	*	*
Frequency	10MHz	±1.5%			*	*	10KHz	10KHz
Temperature	760°C/1400°F	±1.5%			*	*	*	*
Battery test	Test 1.5V and 9V batteries			*		*	*	*
Diode Check				*	*	*	*	*
Continuity Test				*	*	*	*	*

Size(HxWxD): 151mm x 75mm x 45mm Weight: 255g

Accessories: Test leads, 2x1.5V battery and type K temperature probe (927/927A/927H/928BT), clamshell.

• Double molded plastic housing

• True RMS



Model 926A



Model 927



Model 928BT



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033







Model 916H



Model 916N



Model 912D

• Double molded plastic housing

• Built-in Non-Contact AC Voltage Detector (912N/916N/916H)



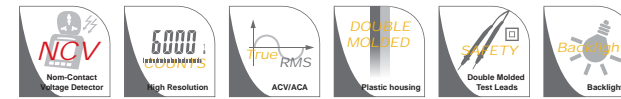
Features	912B	912D	912/912N	914	916	916N	916H
Digital display counts	2000	2000	2000	2000	4000	4000	4000
True RMS measurement		*					*
Range selection	Manual	Manual	Manual	Auto	Auto	Auto	Auto
MAX/MIN hold				MAX			*
Auto Power Off		*		*			*
Display backlight		*	*	*	*	*	*
Data Hold		*	*	*	*	*	*
REL measurement		*					*
Fast and accurate capacitance measurement							*
Non-Contact ACV detection			*			*	*
1.5V and 9V battery test		*	912N				
Full ranges protection		*					*

Specifications	Function	Max Range	Basic Accuracy	912/912N/912B	912D	914	916	916N	916H
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*
	600V	±1.2%	*	*	*	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*	*	*	*
	600V	±1.2%	*	*	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*	*	*
	10A	±2.0%	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*
	10A	±2.0%	*	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ				
	40MΩ	±3.0%				*	*	*	*
Capacitance	4mF	±3.5%				100μF	100μF	*	*
	4mF	±3.5%						*	*
Frequency	10MHz	±1.5%				*	*	*	*
Temperature	760°C/1400°F	±1.5%			*	*	*	*	*
Duty Cycle	9.99%	±1.2%				*	*	*	*
Battery test	Test 1.5V and 9V batteries			*					
Diode Check			*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*

Size(HxWxD): 138mm x 66mm x 38mm Weight: 208g  
Accessories: Test leads, 9V battery and type K temperature probe (916H), clamshell.



	GOOD	LOW	BAD
1.5V	>1.3V	0.95 to 1.3V	<0.95V
9V	>7.7V	5.7 to 7.7V	<5.7V



• Double molded plastic housing  
• Built-in Non-Contact AC Voltage Detector (920N/921N/920H/931H/932H)

Features	920/920N/920L	921/921N	920H	922	922H	931H	932H
Digital display counts	2000	2000	2000	4000	4000	6000	6000
True RMS measurements					*	*	*
Backlight	920L					*	*
Data Hold/REL measurements	Hold	Hold		Hold	*	Hold	Hold
LoZ low impedance measurement							*
Auto Power Off				*	*	*	*
Fast and accurate capacitance measurement					*	*	*
Auto Ranging		*		*	*	*	*
MAX/MIN Hold		MAX				*	*
Duty Cycle					*		*
Non-Contact ACV detection (NCV)	920N	921N	*			*	*
Motor shaking & LED indicator for NCV detection						*	*
61-segments analog bargraph						*	*
Test 1.5V and 9V batteries			*				
Full ranges protection			*	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	920/920N/920L	921/N	920H	922	922H	931H	932H
Voltage DC	600V	±0.5%	*	*	*	*	*	*	1000V	1000V
	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
Voltage AC	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
	600V	±1.2%	*	*	*	*	*	*	1000V	1000V
Current DC	10A	±2.5%	*	*	*	*	*	*	*	*
	10A	±2.5%	*	*	*	*	*	*	*	*
Current AC	10A	±3.0%	*	*	*	*	*	*	*	*
	10A	±3.0%	*	*	*	*	*	*	*	*
Resistance	2MΩ	±0.8%	*	20MΩ	*					
	40MΩ	±0.8%				*	*			
Capacitance	60MΩ	±2.0%							*	*
	60MΩ	±2.0%							*	*
Capacitance	99.99mF	±3.0%				100μF	4mF	*	*	*
	99.99mF	±3.0%						*	*	*
Frequency	10MHz	±1.5%				*	9.999MHz	*	*	*
Temperature	760°C/1400°F	±1.5%			921N	*	*	*	*	*
Duty Cycle	99.9%	±1.2%				*	*	*	*	*
Diode Check			*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, type K temperature probe (921/921N/922/922H/931H/932H) and gift box with carrying case.



Motor shaking & LED indicator for NCV detection



Model 931H



Model 932H





Model 961



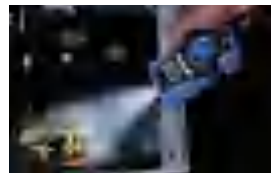
Model 960BL



Model 960C

• True RMS

• Double molded plastic housing



DT-960/960B/960C/960BL/960BT/960BT6/961/962/964/966 Series are True RMS compact digital multimeters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They're all CAT III rated for 600V.

**Safety Conformance**

- EN61010-1 CATIII 600V
- Double molded plastic housing
- Full ranges protection



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

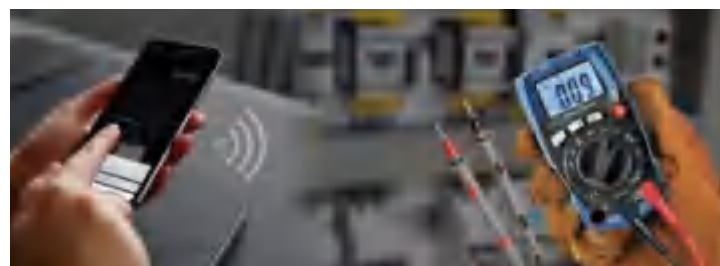
	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Digital display counts	4000	4000	2000	4000	6000	4000	4000	6000	6000	6000
Display type(Negativity display)	*	Positive	Positive	Positive	Positive	*	*	*	Positive	Positive
True RMS measurements	*	*	*	*	*	*	*	*	*	*
Safety design	*	*	*	*	*	*	*	*	*	*
Data Hold/ MAX/MIN recording mode	*	*	*	*	*	*	*	*	*	*
Flash light/ Backlight	*	*	*	*	*	*	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*	*	*	*	*	*	*
Type K temperature input						*		*	*	*
Bluetooth interface with Meterbox pro software				*	*				*	*
LoZ: low input impedance to prevent ghost voltage							*	*		

**Specifications**

Function	Max Range	Basic Accuracy	960	960B	960BL	960BT	960BT6	961	962	964	966	960C
Voltage DC	600V	±0.5%	*	*	*	*	*	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*	*	*	*	*	*
Current DC	10A	±1.0%	*	*	*	*	*	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*	*	*	*	*	*
Resistance	40MΩ	±1.5%	*	*	20MΩ	*	6MΩ	*	*	60MΩ	6MΩ	60MΩ
Capacitance	4000μF	±3.0%	*	*	*	*	6000μF	*	*	4000μF	6000μF	6000μF
Frequency	10kHz	±1.0%	*	*	*	*	*	*	*	*	*	*
Temperature	760°C/1400°F	±3.0%						*	*	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*	*	*	*	*	*	*	*
Diode Check			*	*	*	*	*	*	*	*	*	*
Continuity Test			*	*	*	*	*	*	*	*	*	*

Size(HxWxD): 120mm x 67mm x 46mm Weight: 200g

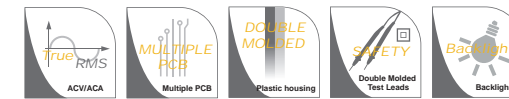
Accessories: Test leads, 1.5V AAA x 2 batteries, type K temperature probe (961/962) and clamshell.



Flexible clamp Model DT-320BS



Bluetooth



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Safety Conformance**
- EN61010-1 CAT IV 300V, CAT III 600V
  - 600V input protection on all ranges

**Features**

	896	897	897FC
Large LCD display 6000 counts with flashlight	*	*	*
240 x 320 2.4" TFT color LCD display	*	*	*
0.47" (12mm) Fork clamp sensor for AC/DC 100A current measurement			*
Temperature measurements		*	*
Record events and trends		*	*
True RMS measurements	*	*	*
Saves measurements	*	*	*
A/D convert fast sampling time: 3 Times/sec.	*	*	*
Low pass filter	*	*	*
Peak capture (records transients as fast as 500μs) & Data Hold	*	*	*
Min/Max with Time stamp (records signal fluctuations)	*	*	*
Bluetooth interface	*	*	*

**Specifications**

Function	Max Range	Basic Accuracy	896	897	897FC
Voltage DC	600V	±0.5%	*	*	*
Voltage AC	600V	±1.0%	*	*	*
Current DC	10A	±1.5%	*	*	*
Fork clamp DC current	100A	±3.0%			*
Current AC	10A	±2.0%	*	*	*
Fork clamp AC current	100A	±3.0%			*
Resistance	60MΩ	±1.0%	*	*	*
Capacitance	10mF	±3.0%	*	*	*
Frequency	10MHz	±1.0%	*	*	*
Duty Cycle	99.9%	±1.2%	*	*	*
Temperature	760°C/1400°F	±2.5%		*	*
Diode Check & Continuity Test			*	*	*

Size(HxWxD): 148mm x 68mm x 48mm  
Weight: 348g

Accessories: Test leads, Li-ion batteries, Software, gift box with carrying case.



Bluetooth



Bluetooth

Model 896

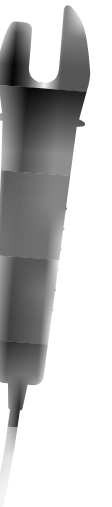


Bluetooth

Model 897



Model 897FC





- Safety Conformance**
- EN61010-1 CATIV 600V
  - 200mA fused protection

- Double Molded housing
- CAT IV 600V
- Full range protection

- Non-Contact Voltage Detection
- Flashlight



The four pocket models 216, 218, 218T and 219 are double molded plastic housing and large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight. 219 can measure 100A AC/DC current with 0.39" opening jaw .

216/218/219 Series CATIV Pocket Multimeter has the features needed to find most electrical and HVAC problems.

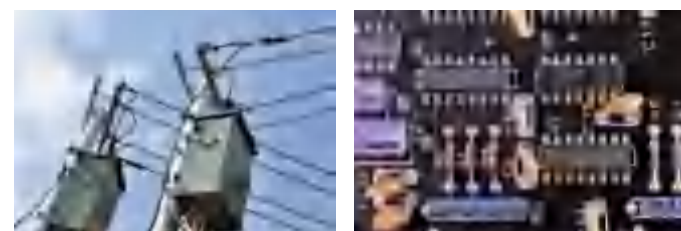
- CAT IV 600V safety rating for industrial applications
- Wide 600V measurement range
- True-RMS for precise measurement of non-linear signals(219)
- Capacitance, resistance, continuity and frequency (218/219)
- Built-in thermometer (219 only)
- Large, easy-to-read display
- Backlight for work in dimly lit areas
- Max to record signal fluctuations
- Display hold function (216/219)
- Manual and automatic ranging

Features	216	218	218T	219
Digital display counts	2000	4000	4000	4000
Safety design	*	*	*	*
True RMS	*	*	*	*
Auto Ranging	*	*	*	*
Data Hold	*	*	*	*
Auto Power Off	*	*	*	*
Flashlight	*	*	*	*
Backlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*
Pocket size	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	216	218	218T	219
Voltage DC	600V	±0.5%	*	*	*	*	
Voltage AC	600V	±1.0%	*	*	*	*	
Current DC	100A	±2.5%	200mA	200mA	200mA	*	
Current AC	100A	±3.0%	200mA	200mA	200mA	*	
Resistance	20MΩ	±0.8%	*	*	*	*	
	40MΩ	±0.8%		*	*	*	
Capacitance	4000uF	±3.0%		100uF	*	*	
Frequency	10kHz	±(0.8%±5d)		*	*	*	
NCV (VAC: 100V~600V)			*	*	*	*	
Diode Check			*	*	*	*	
Continuity Test			*	*	*	*	

Size(HxWxD): 105mm x 60mm x 38mm Weight: 145g

Accessories: Test leads, two "AAA" batteries and clamshell with canvas bag (219).



Model 218



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- 0.39" (10mm) Jaw opening (219)
- 100A AC/DC Current measurement (219)



Model 219

The four pocket models 116, 118, 118B and 119 are double molded plastic housing and large high contrast 2000/4000 counts LCD display. They are all CAT IV 600V safety designed plus non-contact voltage detection & flashlight.

**Safety Conformance**

- EN61010-1 CATIII 1000V
- 200mA fused protection (118/118B)

Features	116	118	118B	119
Digital display counts	2000	2000	4000	2000
Safety design & Pocket size	*	*	*	*
Auto Ranging & Auto Power Off	*	*	*	*
Data Hold	*	*	*	*
Flashlight	*	*	*	*
Non-Contact Voltage detection	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	116	118	118B	119
Voltage DC	600V	±0.5%	*	*	*	*	
Voltage AC	600V	±1.2%	*	*	*	*	
Current DC	200mA	±2.0%		*	*	*	
Current AC	200mA	±2.5%		*	*	*	
Resistance	2MΩ	±0.8%	*				
	20MΩ	±0.8%		*	40MΩ	*	
Capacitance	100uF	±(3.0%±5d)			*		
Frequency	100kHz	±(0.8%±5d)			*		
NCV (VAC: 100V~600V)			*	*	*	*	
Diode Check			*	*	*	*	
Continuity Test			*	*	*	*	

Size(HxWxD): 120mm x 55mm x 40mm Weight: 145g

Accessories: Test leads, two "AAA" batteries and clamshell.

- Non-Contact Voltage Detection
- Flashlight

- Double Molded housing
- CAT IV 600V
- Full range protection



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 118

DT-946/946F Smart Digital Multimeter with Automatic Selection

946 is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC, factories, schools and at home, etc. All inputs are protected to EN 61010-1 CATIV 600V.

**Safety Conformance**

- EN61010-1 CATIV 600V
- Double molded plastic housing
- Full ranges protection

- Double Molded housing
- CAT IV 600V
- Automatic Selection

- IP67 dust and water proof
- Flashlight



Features	946	946F
0.47" (12mm) Fork clamp sensor for AC 100A current measurement	*	*
Automatic DCV or ACV selection, Resistance, Continuity	*	*
4000 counts LCD display with backlight & flashlight	*	*
Automatic selection ranging	*	*
True RMS measurements	*	*
IP67 dust and water proof	*	*
Non-Contact ACV detection: 50V~600V	*	*
Auto Hold & Auto Power Off	*	*

Specifications	Function	Max Range	Basic Accuracy	946	946F
Voltage DC	600V	±1.0%	*	*	
Voltage AC	600V	±1.0%	*	*	
Current DC	10.00A	±3.5%		*	
	100.0A	±3.0%		*	
Current AC	10.00A	±3.0%		*	
	100.0A	±3.0%		*	
Resistance	400kΩ	±2.0%	*	*	

Size(HxWxD): 150mm x 70mm x 48mm Weight: 200g

Accessories: Test leads, 1.5V x 2 batteries, carrying case and gift box.



Model 946F



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





Features

- Fast respond time & PC calibration
- IP67 dust and water proof
- Bluetooth interface
- CATIII 1000V/CATIV 600V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms



970/971/972/973 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 972/973 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that readings are easy to read under all circumstances.

All inputs are protected to EN 61010-1 CATIV 600V/CATIII 1000V.

Safety Conformance

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



- IP67 sta w u erp f
- TrueRMS

- Bluetooth interface
- 50000 counts
- Protection on all inputs

Features

	970	971	972	973
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)			*	*
Larger 50000 counts display with bargraph	6000 counts LCD display	6000 counts LCD display	Negativity LCD Display	OLED Display
AC+DC Measurement	*	*	*	*
9999 Readings memories		*	*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz	10kHz
Analog bargraph/segment	*60	*60	*60	*60
True RMS measurement	*	*	*	*
1000V input protection on all ranges	*	*	*	*
4-20mA process loop measurements with % reading		*	*	*
Data Hold/MAX/MIN recording mode	*	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*	*
Wide capacitance range	*	*	*	*
Bluetooth interface with Meterbox pro software		*	*	*
Powerful Working light	*	*	*	*
Low pass filter (VFD)	VFD	VFD	LPF	LPF

Specifications

Function	Max. Range	Max.Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (972/973) ±0.5% (970/971)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
Temperature	-50°C to 1300°C -58°F to 2372°F	0.1°C/°F	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

Size(HxWxD): 183mm x 82mm x 55mm  
Weight: 447g

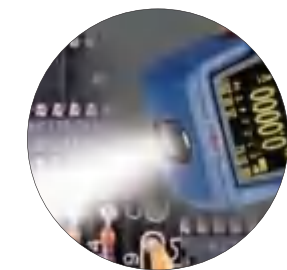
Accessories: Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software



Model 971



Model 972



Model 973



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





- Safety Conformance**
- EN61010-1 CATIII 600V
  - Double molded plastic housing
  - Full ranges protection



Model 180A



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	180A	181B
Digital display counts	6000	6000
CATIII 600V Safety design	*	*
Data Hold	*	*
Auto Ranging & Auto Power Off	*	*
MAX /MIN Hold & REL	*	*
Non-Contact 90-600VAC detection	*	*
LCD display with backlight	*	*
True RMS measurements	*	*
Temperature measurement	*	*

Specifications	Max Range	Basic Accuracy	180A	181B
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	600mA	±2.0%	*	*
Current AC	600mA	±2.5%	*	*
Resistance	60MΩ	±0.8%	*	*
Capacitance	60mF	±3.0%	*	*
Temperature	760°C/1400°F	±3.0%	*	*
Frequency	100kHz	±1.2%	*	*
Duty Cycle	9.99%	±1.2%	*	*
Diode Check			*	*
Continuity Test			*	*

**Size(HxWxD):** 128mm x 63mm x 37mm **Weight:** 205g  
**Accessories:** Test leads, 2x1.5V "AAA" battery, type K temperature probe (928) and gift box with carrying case.

DT-923B/928 Compact Digital Multimeters

923B/928 Series are compact multimeters with double molded plastic housing and over sized high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and have auto-ranging function and provide 0.5% basic DCV accuracy.



Model 923B

- Double molded plastic housing
- Built-in Non-Contact ACV Detection

0.5% basic DCV accuracy



Model 928



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	923B	928
Digital display counts	2000	4000
CATIII 600V Safety design	*	*
Data Hold	*	*
Auto Ranging	*	*
Auto Power Off	*	*
MAX /MIN Hold & REL	*	*
Non-Contact ACV detection	*	*
LCD display with backlight & flashlight	*	*
True RMS measurements	*	*
Low pass filter for accurate measurement of Variable frequency drive (VFD) signals	*	*

Specifications	Max Range	Basic Accuracy	923B	928
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	10A	±2.0%	*	*
Current AC	10A	±2.5%	*	*
Resistance	2MΩ	±0.8%	*	*
	40MΩ	±2.5%	*	*
Capacitance	40mF	±3.0%	*	*
Frequency	10MHz	±1.2%	*	*
Temperature	760°C/1400°F	±2.5%	*	*
Duty Cycle	9.99%	±1.2%	*	*
Diode Check			*	*
Continuity Test			*	*

**Size(HxWxD):** 146mm x 73mm x 45mm **Weight:** 237g  
**Accessories:** Test leads, 2x1.5V "AAA" battery, type K temperature probe (928) and gift box with carrying case.

660/661/662/663/663T Series are compact multimeters with high contrast 2000/4000 counts LCD display. They're all CAT III rated for 600V and provide 0.5% basic DCV accuracy.

- Safety Conformance**
- EN61010-1 CATIII 600V
  - Full ranges protection

0.5% basic DCV accuracy



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 660

Model 661

Color EBTN LCD Display  
Model 662VA

Model 663T

Features	660	661	662/662VA	663	663T
Digital display counts with Backlight	2000	2000	2000	4000	4000
Auto/manual ranging	manual	manual	Auto	Auto	Auto
True RMS measurements				*	*
Safety design & Holster for option	*	*	*	*	*
Data Hold	*	*	*	*	*
Auto Power Off			*	*	*
Type K temperature input					*

Specifications	Max Range	Basic Accuracy	660	661	662/662VA	663	663T
Voltage DC	600V	±0.5%	*	*	*	*	*
Voltage AC	600V	±1.0%	*	*	*	*	*
Current DC	10A	±1.5%	*	*	*	*	*
Current AC	10A	±2.0%	*	*	*	*	*
Resistance	2MΩ		*	*			
	20MΩ	±1.0%			*		
	40MΩ					*	*
Capacitance	4000μF	±3.0%				*	*
Frequency	10kHz	±1.0%				*	*
Duty Cycle	99.9%	±1.2%				*	*
Temperature	760°C/1400°F	±3.0%				*	*
Diode Check			*	*	*	*	*
Continuity Test			*	*	*	*	*
9V, 1.5V Battery Test			*				

**Size(HxWxD):** 120mm x 67mm x 46mm **Accessories:** Test leads, 1.5V AAA x 2 batteries, type K temperature probe (663T) and Clamshell.  
**Weight:** 200g





DT-913/913B/913T/915/915T series are compact meters with rubber holster housing and oversized high contrast 6000 counts LCD display (915/915T). They're all CAT III rated for 600V.

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (915/915T)

• EN 61326 CAT III

**Safety Conformance**

EN61010-1 CATIII 600V  
Single molded plastic housing with holster  
Full ranges protection

• True RMS (AC/DC) / (AC/DC)  
• 6000 counts LCD display (6000)



Model 913B



Model 913T



Model 915T



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features						
	913B	913	913T	915	915T	
Range Model	Manual	Auto	Auto	Auto	Auto	
LCD display	*	*	*	*	*	
Backlit Controls		*	*	*	*	
Digital display counts	2000	4000	4000	6000	6000	
True RMS		*	*	*	*	
Data Hold	*	*	*	*	*	
Auto Power Off		*	*	*	*	
Low battery indication	*	*	*	*	*	
VFD				*	*	

Specifications								
Function	Max. Range	Basic Accuracy	913B	913	913T	915	915T	
AC Voltage	600V	1.0% ± 5 counts	*	*	*	*	*	
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	
AC Current	10A	2.5% ± 5 counts		*	*	*	*	
DC Current	10A	2.0% ± 3 counts	*	*	*	*	*	
Resistance	60MΩ	2.5% ± 5 counts	2MΩ	40MΩ	40MΩ	*	*	
Temperature	-20 to 800°C -4 to 1472°F	2.5% ± 3°C			*		*	
Capacitance	40mF	2.5% ± 5 counts		*	*	60mF	60mF	
Duty Cycle	1~99%			*	*	*	*	
Frequency	10MHz	1.0% ± 2 counts		*	*	*	*	
Continuity	50Ω		30Ω	*	*	*	*	
Diode Check	MAX 3V		1.5V	*	*	*	*	

Size(HxWxD): 144mm x 72mm x 38mm

Weight: 214g

**Accessories:**

Test leads, 2 x 1.5V "AAA" battery, type K temperature probe (913T/915T) and gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



• EN 61326 CAT III

• True RMS (AC/DC) / (AC/DC)  
• 6000 counts LCD display (6000)

Low pass filter for accurate measurement of variable frequency drive (VFD) signals (213/215)

Features							
	211	211B	212	212T	213	215	
Range Model	Auto	Manual	Auto	Auto	Auto	Auto	
LCD display	*	*	*	*	*	*	
Backlit Controls	*	*	*	*	*	*	
Digital display counts	2000	2000	4000	4000	6000	6000	
True RMS			*	*	*	*	
Auto Power Off	*		*	*	*	*	
Low battery indication	*	*	*	*	*	*	
VFD					*	*	

Specifications								
Function	Max. Range	Basic Accuracy	211	211B	212	212T	213	215
AC Voltage	600V	1.0% ± 5 counts	*	*	*	*	*	*
DC Voltage	600V	0.5% ± 3 counts	*	*	*	*	*	*
AC Current	600mA	2.5% ± 5 counts	200mA		400mA	400mA	*	*
DC Current	600mA	2.0% ± 3 counts	200mA	200mA	400mA	400mA	*	*
Resistance	60MΩ	2.5% ± 5 counts	20MΩ	2MΩ	40MΩ	40MΩ	*	*
Temperature	-20 to 800°C -4 to 1472°F	2.5% ± 3°C				*		*
Capacitance	60mF	2.5% ± 5 counts			4000uF	4000uF	*	*
Duty Cycle	1~99%				*	*	*	*
Frequency	10kHz	1.0% ± 2 counts			*	*	*	*
Continuity	50Ω		30Ω	30Ω	*	*	*	*
Diode Check	MAX 3V		1.5V	1.5V	*	*	*	*



Model 211



Model 213



Model 215

Size(HxWxD): 132mm x 65mm x 35mm  
Weight: 205g

**Accessories:**

Test leads, 2 x 1.5V "AAA" battery, type K temperature probe (212T/215) and gift box with carrying case.





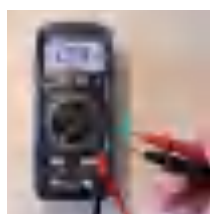
Model 8908D



Model 8908C



hFE triode measurement function



LED check

Double Molded

Large LCD display



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



8908C/8908D is an innovative and reliable portable 35/6 digital multimeter with powerful measuring functions, including AC voltage and AC current True RMS sine wave measurement functions. It can measure up to 1000V AC/DC voltage, up to 20A AC/DC current, resistance, capacitance, frequency, diode, hFE, continuity and NCV, quickly and accurately distinguish neutral wire from strip wire. Temperature can also be measured and neutral and live wires and test leads detected. Equipped with sound and light alarm, torch, automatic backlight and other functions, can be used in a dark environment. It attracts users with its two-color durable case, modern appearance and versatility

Safety Conformance

- EN61010-1 CAT III 600V, CAT II 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

Features

	8908C	8908D
6000 counts display with LCD backlight	*	*
True-RMS measurements	*	*
100mF very large capacitance range, fast measurement	*	*
Accurate measurement of 1000V voltage, 20A current measurement	*	*
Dual range NCV test which quickly identifies neutral and live wires	*	*
Auto Power Off	*	*
Flashlight and Auto backlight	*	*
hFE triode measurement function, can be on the transistor current amplification times detection;	*	*
Low battery indication	*	*
AC voltage frequency response	45~1000Hz	45~1000Hz
Sampling rate	3 times/s	3 times/s
Double injection molding	*	*
2m drop proof	*	*
LED check	*	*

Specifications

Function	Max. Range	Basic Accuracy	8908C	8908D
AC Voltage	6V/60V/600V/1000V	±(1.0% ± 5)	*	*
DC Voltage	600mV/6V/60V/600V/1000V	±(0.5% ± 3)	*	*
AC Current	60mA/600mA/20A	±(2.5% ± 5)	*	*
DC Current	60µA/6mA/60mA/600mA/20A	±(2.0% ± 3)	*	*
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(2.5% ± 5)	*	*
Temperature	-20 to 1000°C/-4 to 1832°F	±(2.5% ± 3°C)	*	*
Capacitance	6nF/60nF/600nF/6µF/60µF/600µF/6mF/60mF/100mF	±(2.5% ± 5)	*	*
Duty Cycle	1~99%		*	*
Frequency	9.999Hz/9.999MHz	±(1.0% ± 2)	*	*

Size(HxWxD): 188mm x 88mm x 56mm Weight: 420g

Accessories: Test leads, 1.5Vx3 "AAA" batteries, Type K temperature probe, gift box with carrying case.

- 4000 counts display with LCD backlight
- Data Hold
- Diode check & continuity test
- True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Specifications

Function	Max. Range	Basic Accuracy	9905H	9908H
Voltage DC	1000 V	±0.5%	*	*
Voltage AC	700V	±1.2%	*	*
Current DC	20A	±2.5%	*	*
Current AC	20A	±3.0%	*	*
Resistance	40MΩ	±2.5%	200MΩ	*
Temperature	760°C/1400°F	±3.0%		*
Frequency	10MHz	±1.5%		*
Capacitance	400µF	±3.0%	*	*
Diode Check			*	*
Continuity Test			*	*

Size(HxWxD): 182mm x 82mm x 55mm  
Weight: 360g

Accessories: Test leads, 9V battery, Type K temperature probe (9908H) and gift box with carrying case.



Model 9905H



Model 9908H

DT-2005B/DT-2008 3 1/2 Digital Multimeters

2005B/2008/2009/2006 have double molded plastic housing and oversized high contrast 2000/4000/6000 counts LCD display with backlight.

Safety Conformance

- EN61010-1 CAT III 600V, CAT II 1000V
- Full ranges protection

Features

Function	Max Range	Basic Accuracy	2005B	2008	2009	2006
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*
Voltage AC	700V	±(1.0%+3d)	*	*	*	*
Current DC	20A	±(1.5%+3d)	*	*	*	*
Current AC	20A	±(2.0%+3d)	*	*	*	*
Resistance	20MΩ	±(1.2%+2d)	*	*	40MΩ	60MΩ
Capacitance	200µF	±(4.0%+3d)	*	*	100µF	6000µF
Frequency	20kHz	±(1.5%+5d)		*	9.999MHz	9.999MHz
Temperature	760°C/1400°F	±(3.0%+3d)		*	*	*
Diode Check	Open Voltage 2.8V dc		*	*	*	*
Continuity Test	Threshold 30Ω		*	*	*	*

Size(HxWxD): 195mm x 92mm x 38mm Weight: 380g

Accessories : Test Leads, Type K temperature probe (2008, 2009 & 2006), 9V battery, gift box and carrying case.



Model 2005B



Model 2008



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Double Molded

Large LCD display





• *Ar eseth efusep b ectin ( 3 3*



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Size(HxWxD): 115mm x 60mm x 16mm  
Weight: 82g  
Accessories:  
Test leads, Wallet style case and one CR 2032 button battery.

DMP-30/31/32/33 Pocket DMMs

33: 6000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, diode test with Data Hold, Relative and MAX/MIN functions.

30/32: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity, diode test with Data Hold and Relative functions.

31: 2000 counts, 5 functions with Data Hold , Max Hold and Auto Power Off.

Specifications

Function	Max Range	Basic Accuracy	30	31	32	33
Voltage DC	600V	±(1.0%±2d)	*	*	*	*
Voltage AC	600V	±(1.5%±5d)	*	*	*	*
Resistance	20MΩ	±(1.0%±2d)		*		
	40MΩ	±(1.0%±2d)	*		*	
	60MΩ	±(1.0%±2d)				*
Capacitance	100μF	±(3.0%±5d)	*		*	
	1000μF	±(3.0%±5d)				*
Frequency	9.999MHz	±(0.8%±5d)	*		*	*
Current DC	200mA	±(1.5%±2d)			*	*
Current AC	200mA	±(2.5%±5d)			*	*
Continuity	Audible threshold < 50Ω		*	*	*	*
Diode test	Test Current 0.6mA		*	*	*	*

DT-10/12/16/16A Pocket Digital Multimeters



Model 16



Model 12

10: 4000 counts, 8 functions including DCV, ACV, DCA, ACA, Resistance, Continuity, Diode test with Data Hold, Low impedance and non-contact ACV detection.

16/16A: 6000 counts with Min/Max, Data hold and non-contact ACV detection.

- Non-Contact Voltage detection identifies live circuits (16/16A)
- Large high contrast 4000 counts LCD display with Analog bargraph (10)
- Large high contrast 6000 counts LCD display with Analog bargraph (16/16A)
- Auto Power off
- Relative, and Data Hold
- Built-in storage compartment for integrated test leads
- Over-range and low battery indication



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Specifications

Function	Max Range	Basic Accuracy	10	12	16	16A
Voltage DC	600V	±(1.3%±2d)	*	*	*	*
Voltage AC	600V	±(2.3%±5d)	*	*	*	*
Resistance	40MΩ	±(2.0%±2d)	*	*	*	*
	60MΩ	±(1.0%±2d)			*	*
Continuity	Audible threshold < 50Ω		*	*	*	*
Diode test	Test Current 0.6mA		*	*	*	*
Frequency	9.999MHz	±(0.8%±5d)			*	*
	200mA	±(1.5%±2d)	*	100.0A	*	*
Current DC	4000μA/6000μA	±(2.5%±5d)	*		*	*
	200mA	±(2.5%±5d)	*	100.0A	*	*
Current AC	200mA	±(2.5%±5d)	*		*	*
	4000μA/6000μA	±(2.5%±5d)	*		*	*

Size(HxWxD): 126mm x 59mm x 32mm  
Weight: 124g  
Accessories:  
Test leads, Wallet style case and one 1.5V L44 button battery.

• *Ar eseth efusep b ectin ( 0 5*



Rubber Protection



Oversized high contrast 4000/6000 counts LCD Display



Built-in Non-Contact Voltage Detector automatically detects a live wire when the red LED is lit

DT-101/102/103/103B/105/107/108 Pocket DMMs

101/102 Series Pocket Digital Multimeters provide multifunction.

Features

	103B	101/103	102/105	107	108
2000 Counts digital display	*	*	*	*	*
Safety design CAT II 600V/ CATIII 300V	*	-/*	-/*	*	*
Double molded housing	*	-/*	-/*	*	*
Non-contact ACV detection		-/*	-/*	*	*
Data Hold		-/*	-/*	*	*
Auto Ranging				*	*
Auto Power Off				*	*
Type K temperature input					*

Specifications

Function	Max Range	Basic Accuracy	101/103/103B	102/105	107	108
Voltage DC	600V	±0.5%	*	*	*	*
Voltage AC	600V	±1.8%	*	*	*	*
Current DC	200mA	±1.0%	*	*	*	*
Resistance	2MΩ	±0.8%	*	*	20MΩ	20MΩ
	20MΩ	±0.8%	*	*		
Temperature	760°C/1400°F	±3.0%				*
Diode Check			*	*	*	*
Continuity Test			*	*	*	*

Size(HxWxD): 101/102: 100mm x 48mm x 26mm  
103/105/107/108: 108mm x 53mm x 32mm

Weight: 102g

Accessories:  
Clamshell, Test leads and 12V battery.

DT-111/112/113 Pocket DMMs

111/113: 4000 counts, 10 functions including DCV, ACV, DCA, ACA Resistance, Capacitance, Frequency, Duty Cycle, Continuity and Diode test with Data Hold and Relative functions.

112: 2000 counts, 5 functions with Data Hold , Max Hold and Auto Power Off.

Specifications

Function	Max Range	Basic Accuracy	111	112	113
Voltage DC	500V	±(1.3%±2d)	*	*	*
Voltage AC	500V	±(2.3%±5d)	*	*	*
Resistance	20MΩ	±(2.0%±2d)	*	*	*
	40MΩ	±(1.0%±2d)	*	*	*
Continuity	Audible threshold < 50Ω		*	*	*
Diode test	Test Current 0.6mA		*	*	*
Capacitance	200μF	±(3.0%±5d)	*	*	*
Frequency	9.999MHz	±(0.8%±5d)	*	*	*
Current DC	400mA	±(1.5%±2d)	*	*	*
Current AC	400mA	±(2.5%±5d)	*	*	*

Size(HxWxD): 113mm x 61mm x 13mm  
Weight: 90g

• *Da b em old h u sing*



Model 103



Model 103B



Model 107



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 111



Model 112



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Accessories:  
111/112/113: Test leads, Wallet style case and one CR 2032 button battery.





Model R-100



CE EMC  
EN: 61326

Features
Wide range Decade boxes for product design or calibration checks
Heavy duty durable construction
Separate grounding terminal
Three binding posts permit isolated substitutions
1% Resistance substitution from 1 to 11,111,110½
Seven Decade Ranges of Resistance
Values can be changed in 1½ increments
0.3W resistors
0.3½ internal zero resistance

Size(HxWxD): 140mm x 130mm x 48mm  
Weight: 190g  
Accessories: Clamshell

DT-155 Intelligent Semiconductor Analyzer



Model 155

CE EMC  
EN: 61326

Size(HxWxD): 102mm x 56mm x 24mm  
Weight: 91g  
Accessories: Two "AAA" batteries and clamshell

The intelligent semiconductor Component analyzer offers great features together with refreshing simplicity.

Features
Automatic component type identification
Automatic pinout identification, just connect any way round.
Special feature identification such as diode protection and resistor shunts.
Gain measurement for bipolar transistors.
Leakage current measurement for bipolar transistors.
Silicon and Germanium detection for bipolar transistors.
Gate threshold measurement for Enhancement Mode MOSFETs.
Semiconductor forward voltage measurement for diodes, LEDs and transistor Base-Emitter junctions.
Automatic and manual power-off.

DT-3216/3218/3219/3260/3280/3280B/3290 Pen-type Digital Multimeters

- 7 functions Pen-type Digital Multimeters
- Large 3-3/4 digital LCD display with Bargraph
- Full function indication
- Diode and audible continuity

Function	Max range	Basic accuracy	3216	3218	3219	3260	3280	3280B	3290
Voltage DC	600V	±0.8%	*	*	*	*	*	*	*
Voltage AC	600V	±1.2%	*	*	*	*	*	*	*
Current DC		±1.5%		340mA	400mA	400mA	200mA		400mA
Current AC		±2.0%		340mA	400mA	400mA	200mA		400mA
Resistance	40MΩ	±3.0%	20MΩ	30MΩ	*	±1.0%	20MΩ	20MΩ	*
Capacitance	40mF	±3.5%				*			
Non-contact voltage: 50-600V									
Continuity: <35Ω									
Diode test: Test voltage max. 3.4V									

Size(HxWxD): 220mm x 40mm x 33mm  
Weight: 215g  
Accessories: Clamshell and button battery



Model 3280B



Model 3218

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



3½ LCD display, pocket size and easy to use, wide measuring range for 9 kinds of battery such as button cell, AA, AAA, 9V etc, distinguishing the battery in good quality or not by setting different load resistance, the unit has no battery but powered by tested battery

Specifications		
Battery Type	Load Current	Minimum Voltage for Good Indication
Button cell 1.5V	1mA	1.125V+/-0.09V
AAA-N-1.5V	50mA	1.125V+/-0.09V
AA-C-D-1.5V	150mA	1.125V+/-0.09V
Lithium 3V	100mA	2.25V+/-0.18V
6V	10mA	4.50V+/-0.36V
9V	10mA	6.75V+/-0.54V
12V	10mA	9.00V+/-0.72V
15V	10mA	11.25V+/-0.90V
22.5V	10mA	16.875V+/-1.35V



Size(HxWxD): 60mm x 116mm x 29mm  
Weight: 115g  
Accessories: Clamshell

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 203B

SMD-100 Smart Electronic Components Tester

SMD-100 has a changeable head for automatic scan check DC/AC Voltage, components (resistance, capacitance, diode and continuity) and circuit fault. All inputs are protected according to EN 61010-1 CATIII 600V.

Features	
Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and diode selection	
6000 counts LCD display	
Auto scan DC/AC Voltage, resistance, capacitance, diode and continuity	
Data Hold/MAX/MIN recording mode	
Auto Power Off	
Wide capacitance range	
Diode Check & Continuity Test	

Specifications		
Function	Range	Basic Accuracy
Voltage DC	600mV/6V/60V/600V	±0.8%
Voltage AC	600mV/6V/60V/600V	±1.0%
Resistance (Ω)	600/60k/60k/600k/6M/60M	±1.0%
Capacitance (F)	6n/60n/600n/6μ/60μ/600μ/6m/60m	±3.5%
Diode check	Open voltage 2.8Vdc, test current 1mA.	
Continuity test	Threshold 35 Ω	

Size(HxWxD): 184mm x 37mm x 23mm  
Weight: 76g  
Accessories: Two LR44(1.5V) button batteries and clamshell

CE EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033







Model 936

936 is a high performance smart digital multimeter with automatic selection DC/ACV, providing wide application in HAVC, factories, schools and at home, etc.  
All inputs are protected to EN 61010-1 CATIII 600V/ CATII 1000V.

- **D**urable **m**olded **d**housing
- **C**AT **I**V
- **A**utomatic **s**election



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

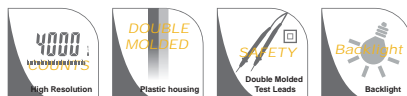
Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and Diode selection  
6000 counts LCD display  
Auto/manual ranging  
Data Hold/MAX/MIN recording mode  
Auto Power Off  
Wide capacitance range, diode check & continuity test

**Specifications**

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.0%
Resistance	40MΩ	±1.0%
Duty Cycle	99.9%	±1.2%
Frequency	10MHz	±1.0%
Capacitance	40mF	±3.5%

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, carrying case and gift box.

**DT-940/941 Compact Digital Multimeters**



940 Series are new compact multimeters with double molded plastic housing and over sized high contrast 4000 counts LCD display. They are all CAT III rated for 1000V.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- Double molded plastic housing
- 1000V input protection on all ranges
- 10A/600V fuse input protection on current ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032, EN: 61010-02-033



**Features**

	940	941
Digital display counts	4000	4000
Data Hold & display backlight	*	*
Auto Ranging & Auto Power Off	*	*
Type K temperature input		*

**Specifications**

Function	Max Range	Basic Accuracy	940	941
Voltage DC	600V	±0.5%	*	*
Voltage AC	600V	±1.2%	*	*
Current DC	10A	±2.5%	*	*
Current AC	10A	±3.0%	*	*
Resistance	40MΩ	±0.8%	*	*
Capacitance	100μF	±3.0%	*	*
Frequency	10MHz	±1.5%	*	*
Temperature	760°C/1400°F	±3.0%	*	*
Duty Cycle	9.99%	±1.2%	*	*
Diode Check & Continuity Test			*	*

Size(HxWxD): 150mm x 70mm x 48mm Weight: 255g  
Accessories: Test leads, 9V battery, Temperature Probe (941), carrying case and gift box.

**DT-925 Voltage & Current Calibrator / DMM with Voltage & Current Calibrator**



Model 925



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

925 Voltage/Current calibrator is a portable instrument for calibrating process devices and measuring process signals. It brings you into the field of precision measurement.

- Adjustable 0-24mA current source.
- Adjustable -199.9mV to +199.9mV DCA source.
- Current calibrator drives loads up to 500 ohms.
- The instrument measures a two-wire current loop.

**Specifications ( standard source)**

Function	Range	Display Resolution	Accuracy
Current source	0-19.99mA	0.01mA	±(0.25%FS+1d)
	0-24mA	0.1mA	±(0.5%FS+1d)
DC mV source	-199.9mV to +199.9mV	0.1mV	±(0.25%FS+1d)

**Specifications (measurement)**

Range	Resolution	Accuracy
0-19.99mA	0.01mA	±(0.25%FS+1d)
0-24mA	0.1mA	±(0.5%FS+1d)

Size(HxWxD): 150mm x 70mm x 48mm Weight: 236g  
Accessories: Test leads, 9V battery and gift box with carrying case.



9930 is new 11,000 Counts LCR Meter  
9931 is new 11,000 Counts digital multimeter with LCR function

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V (9931)
- Full ranges protection

IP67 sta b u er p

Durable molded housing



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9931



Model 9931



**Features**

	9930	9931
Digital display counts	11,000	11,000
Data Hold & Auto Ranging	*	*
MAX/MIN recording mode	*	*
Auto Power Off	*	*
DMM + LCR		*

**Specifications (Multimeter)**

Function	Max Range	Basic Accuracy	9930	9931
Voltage DC	1000V	±0.5%		*
Voltage AC	1000V	±0.8%		*
Current DC	1.1A	±1.2%		*
Current AC	1.1A	±1.8%		*
Frequency	10MHz	±1.5%		*
Duty Cycle	9.99%	±1.2%		*
Diode Check			*	*
Continuity Test			*	*

**Specifications (LCR)**

Function	Max Range	Max Resolution	Basic Accuracy
Resistance	110.00MΩ	0.01Ω	±1.2% of rdg ±5 digits
Capacitance	110.00uF	1pF	±3.0% of rdg ±30 digits
Inductance	20H	1uH	±(2%+5)

Size(HxWxD): 182mm x 82mm x 55mm Weight: 360g  
Accessories: Test leads and 9V battery, gift box with carrying case.

**DT-9935 Professional LCR Meter**

9935 LCR Meter features with an innovative automatic selection technology, automatically measuring L, C and R with Q, D and θ by just turn on the meter. The testing frequency is up to 10kHz and it can output up to 100kHz test frequency. It provides high accuracy with four or five terminal Kelvin measurements.

- Overload Indication
- Lower Battery Indication
- Auto Power Off

**Specifications**

<b>Inductance</b>	
Ranges	20uH-2000H
Resolution	0.001uH
Basic Accuracy	±(0.2+5d)
<b>Capacitance</b>	
Ranges	20pF-20mF
Resolution	0.001pF
Basic Accuracy	±(0.2+3d)
<b>Resistance</b>	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
<b>DC Resistance</b>	
Ranges	20Ω-2000MΩ
Resolution	0.001Ω
Basic Accuracy	±(0.2+2d)
<b>Q (quality)</b>	
Ranges	0.000-999
Resolution	0.001
<b>D (dissipation)</b>	
Ranges	0.000-999
Resolution	0.001
<b>Theta</b>	
Ranges	±90 degree
Resolution	1 degree

Durable molded housing



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Size(HxWxD): 220mm x 96mm x 60mm  
Weight: 360g  
Accessories: Test leads and 6 x 1.5V "AA" batteries, gift box with carrying case.





Model 21

21 digital Multifunction Environment Meter have been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter and digital multimeter. They are ideal Multifunction Environment Instruments with scores of practical applications for professional and home use.

**CE** EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Applications**

- Plant/General Maintenance
- HVAC/R
- Transportation/Automotive
- Cooling and Reheating
- Serving areas
- Food service Equipment
- Cold storage

**Specifications**

Function	Max Range	Resolution	Basic Accuracy
Light	20,000Lux	0.1Lux	±0.5%±10d
Sound	100dB	0.1dB	±3.5dB
Humidity	95% RH	0.1% RH	±5% RH
Temperature	1300°C	0.1°C	±3%±1d
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	100mV	±1.2%±10d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	2MΩ	0.1Ω	±0.8%±2d

**Size(HxWxD):** 121mm x 60.6mm x 40mm **Weight:** 280g  
**Accessories:** Rubber holster, 9V battery, Test leads and K-Type temperature probe..

DT-991 Series & 200 Series/9932FC High Performance Digital Multimeters



Model 204



Model 991

**Specifications**

Function	Max Range	Basic Accuracy	991/200	992/201	993/202	202T	204
Voltage DC	600V	±(0.8%±2d)	*	*	*	*	*
Voltage AC	600V	±(1.2%±10d)	*	*	*	*	*
Current DC	10A	±(1.2%±2d)	*	*	*	*	*
Current AC	10A	±(1.8%±7d)	*	*/-	*	*	*
Resistance	2000Ω	±(0.8%±2d)	*	*	20MΩ	*	*
	40MΩ	±(0.8%±2d)	*	*		*	*
Temperature	760°C/1400°F	±(3.0%±3d)			*	*	*
Duty Cycle	0.1%~99.9%	±(1.2%±2d)		*	*	*	*
Frequency	9.999MHz	±(1.5%±4d)			*	*	*
Capacitance	200uF	±(2.5%±5d)			*	*	*
	40mF	±(2.5%±5d)					*
Diode Check	Open voltage 2.8Vdc		*	*	*	*	*
Continuity	Threshold 30Ω		*	*	*	*	*
Bat. Test	9V(6mA); 1.5V(100mA)		*				*

**991 Series:**

**Size(HxWxD):** 121.5mm x 60.6mm x 40mm  
**Weight:** 150g

**Accessories:** Test leads, Holster and 9V battery, clamshell.

**200 Series:**

**Size(HxWxD):** 146mm x 66.2mm x 41.5mm  
**Weight:** 200g

**Accessories:** Test leads, K-type temperature probe (201, 202, 202T, 204, 204T) and 9V battery, gift box.

**Specifications (9932FC)**

Function	Max Range	Min Resolution	Basic Accuracy
Voltage DC	1000V	0.1mV	±(1.2%±2d)
Voltage AC	750V	0.1mV	±(0.8%±3d)
Current DC	20A	0.1uA	±(1.5%±3d)
Current AC	20A	0.1uA	±(1.8%±5d)
Resistance	40MΩ	0.1Ω	±(1.0%±2d)
Capacitance	100uF	10pF	±(3.5%±5d)
Frequency	9.999MHz	0.001Hz	±(1.2%±3d)
Duty Cycle	99.9%	0.1%	±(1.2%±2d)
Temperature	1000°C/1832°F	0.1°C/°F	±(3%±2°C/°F)
Diode Check	1.5VDC test 0.3mA current		
Continuity Check	Threshold 30Ω, continuity beeper 2.7kHz		

**Size(HxWxD):** 197mm x 88.4mm x 41.2mm  
**Weight:** 635g

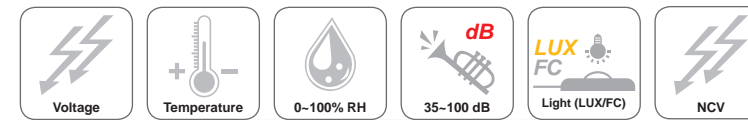
**Accessories:** Rubber holster, Test leads, K-type temperature probe, 9V battery, RS-232 PC cable and Software diskette, Gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9932FC



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 51

The model 61 is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector.

The model 51 is without temperature (°F) range. They are ideal Multifunction Environment & DMM Instruments with scores of practical applications for professional and home use.

The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations.

The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon diode. The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.

The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.

**Specifications**

Function	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux 40,000 Lux	0.1 Lux	±5%±10d
Sound	100dB	0.1dB	±3.5dB
Humidity	99% RH	0.1% RH	±3.5% RH
Temperature	-20 ~ 750 °C -4 ~ 1400°F	0.1° up to 400°, 1° over 400°	±3%±3°C ±3%±5°F
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current 1mA		
Continuity Test	Threshold 30Ω		

**Size(HxWxD):** 170mm x 79mm x 50mm **Weight:** 342g  
**Accessories:** 9V battery, Test leads and K-Type temperature probe.

Infrared Temperature Probe (Option IR-82)



Model 61



- B lueto hi nterfa e
- P CC h ib t u ia

- IP67 sta u t erp f
- TrueRMS



9626/9627/9628 are the new Professional Digital Multimeters which provide much safer measurements with double molded plastic housing design and IP67 waterproof function. 9628 performance like datalogger & True RMS AC voltage and current measurements, 50,000 counts resolution and a 0.03% basic DC accuracy within the reach of more customers. The large LCD display with analog bargraph and backlit ensure that readings are easy to read under all circumstances.

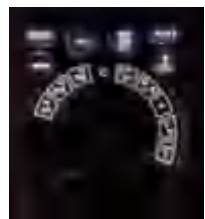
All inputs are protected to EN 61010-1 CATIV 600V/CATIII 1000V.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.5A/1000V fuses protection on current ranges



Model 9626 Meterbox Pro



Backlight for knob Switch



InfraRed Thermometer sensor

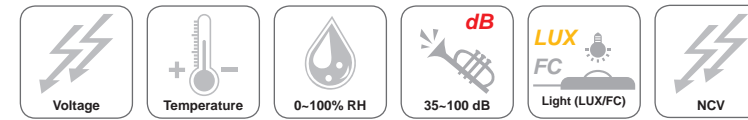


Features	9626	9627	9628
50,000 counts high resolution (0.01mV, 0.01µA, 0.01Ω)			*
Larger 50000 counts display with bargraph	6000 counts LCD display	6000 counts LCD display	Negativity LCD Display
AC+DC Measurement	*	*	*
9999 Readings memories	*	*	*
AC bandwidth (voltage/current)	3kHz	3kHz	10kHz
Analog bargraph/segment	*/60	*/60	*/60
True RMS measurement	*	*	*
1000V input protection on all ranges	*	*	*
4-20mA process loop measurements with % reading		*	*
Backlight for LCD, knob Switch	*	*	*
Data Hold/MAX/MIN recording mode	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*
Wide capacitance range	*	*	*
Bluetooth interface with Meterbox pro software		*	*
Powerful Working light	*	*	*
Built-in InfraRed Thermometer	*	*	*
Low pass filter (VFD)	VFD	VFD	LPF

Specifications	Max. Range	Max.Resolution	Basic Accuracy
Voltage DC	1000 V	10µV	±0.03% (9628) ±0.5% (9626/9627)
Voltage AC	1000V	10µV	±1.0%
Current DC	10A	0.01µA	±1.0%
Current AC	10A	0.01µA	±1.5%
Resistance	60MΩ	10mΩ	±0.3%
Duty Cycle	99.9%	0.1%	±1.2%
Frequency	10MHz	0.001Hz	±0.1%
Capacitance	60mF	10PF	±3.5%
IR Temperature	-20 ~ 750 °C/ -4 ~ 1400°F	0.1° up to 400°, 1° over 400°	±1%±1°C/1.8°F
Temperature	-50°C to 1300°C -58°F to 2372°F	0.1°C/°F	±1.0%
Diode Check	Test current <0.5mA MAX 3V		
Continuity Test			

**Size(HxWxD):** 161mm x 76mm x 51mm **Accessories:** Test leads, 9V battery, Type K temperature probe, gift box with carrying case and Software

**Weight:** 342g



The model 61 is 6 in 1 Digital Multimeter with Environment Measurement. It has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, Temperature Meter & Non-contact AC voltage detector.

- The Sound Level function can be used to measure noise in factories, schools, offices and home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The sensitive component of light used in the meter is a very stable, long life silicon ciodie.The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermo-couple.
- The DMM function include ACV, DCV, ACA, DCA Resistance, Capacitance, Frequency, Duty Cycle, Diode, Continuity test and Non-contact AC voltage detector.
- Backlight for LCD, knob Switch
- Built-in InfraRed Thermometer

Specifications	Max Range	Max. Resolution	Basic Accuracy
Light	20,000 Lux 40,000 Lux	0.1 Lux	±5%±10d
Sound	100dB	0.1dB	±3.5dB
Humidity	99%RH	0.1%RH	±3.5%RH
Temperature	-20 ~ 750 °C/ -4 ~ 1400°F	0.1° up to 400°, 1° over 400°	±3%±3°C ±3%±5°F
IR Temperature			±1%±1°C/1.8°F
NCV	50-1000V		
Voltage DC	600V	0.1mV	±0.5%±2d
Voltage AC	600V	0.1mV	±1.2%±10d
Current AC	10A	0.1uA	±1.0%±2d
Current DC	10A	0.1uA	±1.0%±2d
Resistance	40MΩ	0.1Ω	±0.8%±2d
Capacitance	100uF	0.01nF	±3.5%
Frequency	10MHz	0.001Hz	±1.5%
Duty Cycle	99.9%	0.1%	±1.2%
Diode Check	Open voltage 2.8VDC; Test current 1mA		
Continuity Test	Threshold 30Ω		

**Size(HxWxD):** 161mm x 76mm x 51mm

**Weight:** 342g

**Accessories:** 9V battery, Test leads and K-Type temperature probe.



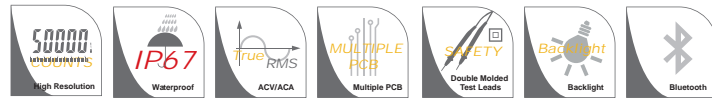
Model 61H



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033







CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9990

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges

**Features**

- 50,000 counts 320 x 240 TFT color LCD display
- 20MHz bandwidth and 50ms/s realtime sample rate
- Logging function with trend capture and over 10,000 data logging
- Free software to calibrate accuracy
- 100kHz bandwidth (voltage/current)
- AC, AC+DC True RMS measurements
- 0.025% DCV accuracy with fully PC calibration
- Saves measurements, records events and trends
- 20 times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Max/Min/Avg with time stamp (records signal fluctuation)
- Moto winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC

**Specifications**

**Oscilloscope Functions**

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	10MHz
Real time sample rate	50MS/s
Risetime	10ns
Channels	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input impedance	1MΩ/15pF
Max Input Volatage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

**True RMS Multimeter Functions**

Function	Max	Max.resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025%+5)
Voltage AC	1000V	1µV	±(0.3%+25)
Current DC	10A	0.01µA	±(0.15%+2)
Current AC	10A	0.01µA	±(0.6%+5)
Temperature	-50°C to 1000°C	0.1°C	±(1.0%+2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05%+2)
Capacitance	10mF	0.001nF	±(2.0%+40)
Frequency	10MHz	0.01Hz	±(0.01%+10)
Diode & Continuity	Yes		
Bluetooth Interface	Smartphone/PC		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor		

Size(HxWxD): 220mm x 91mm x 56mm Weight: 630g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



10MHz Oscilloscope Function Selectable Multifunction Trend Capture function

**Bluetooth interface to smartphone /PC**

- Remote measurement of voltage, current, resistance, capacitance and other electrical parameter
- Measurement data can be transmitted to smart phones via Bluetooth and visually analyzed and stored
- Users can annotate and save each measurement
- Data can be shared to e-mail and other platforms



9998 Professional True RMS Industrial Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. Android Platform permits smart multifunctions such as updating software on line, PC calibration etc.

Meterbox iMM software & cloud server support to transfer the measured data to customer's smartphone for edit and storage.

**Safety Conformance**

- EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V input protection on all ranges
- 10A/1000V & 0.8A/1000V fuses protection on current ranges



**Features**

- Large 50,000 count 320 x 240 TFT color LCD display
- 20MHz/50MS/s bandwidth/Real time sample rate
- Logging function with Trend Capture for easy review of logged data
- Bluetooth PC interface for easy data transfer & accuracy calibration
- AC, AC+DC true-RMS measurements & 100kHz ACV, ACA bandwidth
- AC, AC+DC true-RMS measurements
- 0.025% DCV accuracy with Fully PC Calibration
- Saves measurements, records events and trends
- 20 Times/sec. A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- Moto winding and low ohm (50Ω) measurement range
- Low pass filter
- Bluetooth interface to smartphone / PC.
- Android Platform permits smart multifunctions such as updating software on line, PC calibration etc

**Specifications**

**Oscilloscope Functions**

Display Size	3.5" color LCD; 320 x 240 pixels
Bandwidth	20MHz
Real time sample rate	50MS/s
Risetime	10ns
Channels	1
Vertical Sensitivity	50mV/div to 200V/div
Vertical Resolution	8 bits
Trigger Mode	Free Run, falling edge, rising edge
Trigger Source	Internal
Trigger Coupling	AC/DC
Input impedance	1MΩ/15pF
Max Input Volatage	1000Vp-p
Cursor Measurement	Voltage and time/ Frequency

**True RMS Multimeter Functions**

Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.6% + 5)
Temperature	-200°C to 1350°C	0.1°C	±(1.0% + 2.5°C)
Resistance	50MΩ	0.01Ω	±(0.05% + 2)
Capacitance	10mF	0.001nF	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger		

Size(HxWxD): 220mm x 96mm x 60mm Weight: 631g

Accessories: Test leads, Li-ion batteries, Type K temperature probe, Bluetooth and Software, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

TFT color LCD display  
Bluetooth  
Android Platform



Model 9998



10MHz Oscilloscope Function Fast response time

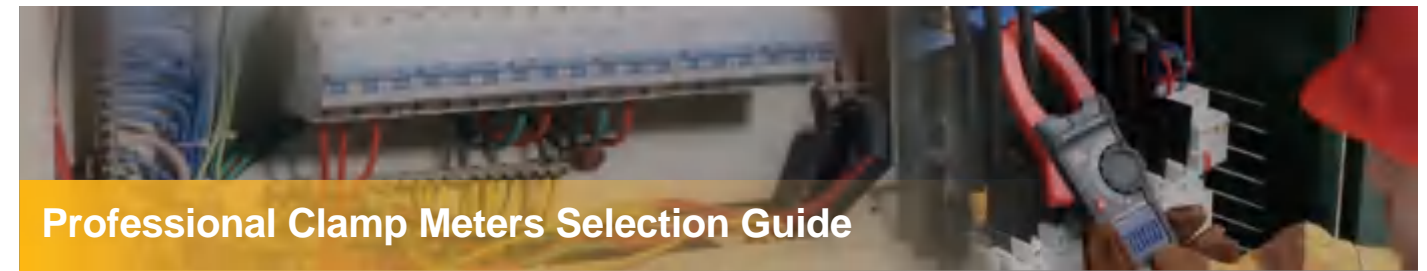
Trend Capture function Multifunction Selectable



## Professional AC, AC/DC Autoranging Clamp Meters



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



### Professional Clamp Meters Selection Guide



#### Professional AC/DC True RMS InfraRed Thermal Clamp Meter with Datalogging, Bluetooth connectivity

DT-9581 Clamp Meter with Thermal imaging is troubleshooting and diagnosing tool for electrical equipment that can quickly check hot spots on high-voltage equipment and transformers, and safely detect overheating of system components, fuses, wires, insulators, connectors, splices and switches to prevent safety hazards. The clamp meter's advanced electrical features – True RMS, VFD, Loz in AC measurement and fast A/D converting sampling time and wide range of functions provide fast and reliable way to identify overloaded circuits. The connectivity to Thermview+ App via Bluetooth can transmit images and readings to a smartphone, to save time and simplify on data collection, reporting and sharing.



#### Professional 1000A AC, AC/DC True RMS Clamp Meters

DT-9380/9381/9381A Industrial clamp meter with advanced features – True RMS, Loz (DT-9381A) and variable frequency drive (VFD) filtering functions (DT-9381A) offer advanced troubleshooting performance. The meters help users accurately analyze voltage/current in complex machinery by including inrush (DT-9381A) and wide range of current/voltage 1000V and 1000A. You can also use it to measure temperature, capacitance and frequency.



#### AC True RMS Fork Clamp Meter With white LED Blacklight

DT-390 is a versatile troubleshooting tool to carry to every job site. It can be used to check voltage and current with one compact tool and also to check resistance, capacitance, continuity and diode test. Its Open Jaw current measurement allows you check current up to 200A without breaking the circuit. The Auto-sense feature enables the meter to recognize the input and automatically switch to the correct mode. Its double molded test leads stow neatly in the back of the tester, making it easy to carry and use. Negativity LCD display, backlight for button and knob switch and flashlight make it easy to see in dark location.



#### 3000A True RMS AC Flex Clamp Meter

DT-320 is made with a narrow, 18-inch (457mm) flexible coil clamp. Unlike hard jaw clamp meters, the DT-320 coil clamp can be manoeuvred, snaked and bent to reach into areas that are obstructed or difficult to reach, it allows you easily take measurements in tight location to simplify difficult current measurements with wide range of 3000A current. The True RMS measurements is for accurate readings of noisy, distorted and non-sinusoidal waveforms.



#### CATIV 1000V 2000A AC, AC/DC True RMS Clamp Meters

3398B/3398W Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.



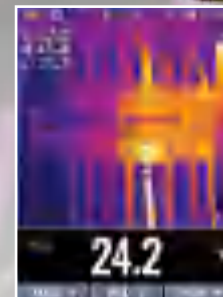
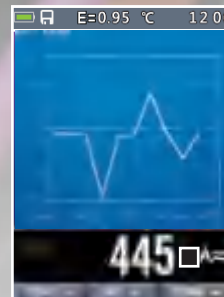
# Professional AC/DC True RMS Clamp Meters with 80x80 InfraRed Thermal Imager



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model DT-320BS  
Flexible clamp (optional)



- Fast response time
- True RMS
- TFT color LCD display
- 6000 counts

## Features

Built-in Thermal Imager with 80x80 InfraRed resolution quickly and safely identifies hot spots without contact  
2.4" TFT color 6000 counts LCD display with 240x320 pixels for easy and clear viewing of images and readings  
True RMS measurement for ACV / ACA / LoZ for ACV measurement  
Low pass filter for accurate measurement of variable frequency drive (VFD) signals  
1.4" (37mm) Jaw opening  
Flexible current probe (320B/320BS optional) expands the measurement range to 3000 ACA  
AC, AC+DC True RMS measurement & 1KHz ACV, ACA bandwidth  
A/D convert fast sampling time: 10 times/sec  
Peak capture as fast as 500µs & Inrush current  
Min/Max/Avg with Time stamp (records signal fluctuations)  
With Bluetooth connect to Thermview+ smart phone App for documentation reporting and sharing  
Logging function with Trend capture for easy review of logged data  
Double molded plastic housing for safe testing and flashlight for dark location

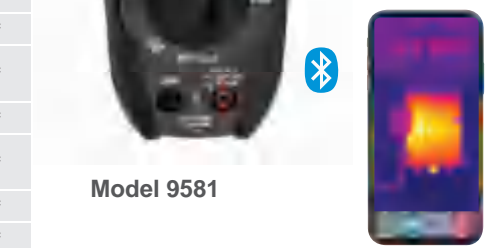
## Specifications

	9481	9581			
<b>Thermal Imager</b>					
IR resolution	80x80 pixels	*			
Field of View (FOV)	21° x 21°	*			
Thermal sensitivity/NETD	< 0.08°C /80mK	*			
Image frequency	50Hz	*			
Object temperature range	-20 to 260°C (-4 to 500°F)	*			
Spectral range	8-14 µm	*			
Color palettes	Iron/Rainbow/Grey/Grey Inverted/Feather	*			
Accuracy	±2°C (±3.6°F) or ±2% of reading	*			
<b>True RMS Multimeter Functions</b>					
Function	Maximum	Max. resolution	Best Accuracy		
Voltage DC	1000V	100mV	±(0.5% + 5d)	1500V	*
Voltage AC	1000V	100mV	±(1.2% + 5d)	1500V	*
Current DC	1000A	0.01A	±(2% + 8d)	*	*
Current AC	1000A	0.01A	±(2.5% + 5d)	*	*
Flexible A	3000A	0.01A	±(3.0%+5d)	*	*
Resistance	60MΩ	0.1Ω	±(0.8% + 5d)	*	*
Capacitance	100mF	0.01nF	±(3.0% + 5d)	*	*
Frequency	10MHz	0.01Hz	±(0.2% + 5d)	*	*
Inrush Current	1000A	1A		*	*
Temperature	1000°C/1832°F		±(1.5%+3°C)	*	*
Diode & Continuity	Yes			*	*
Interface	Bluetooth			*	*
Power Supply	Li-ion rechargeable battery			*	*

Size(HxWxD): 95mm x 270mm x 42mm Weight: 550g  
Accessories: Test leads, gift box with carrying case, Temperature probe Li-ion rechargeable battery, AC Charger



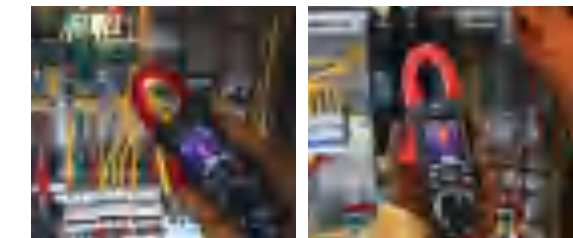
Model 9481



Model 9581



Thermview+





# Professional 1000A AC, AC/DC True RMS Clamp Meters with TFT color LCD display



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



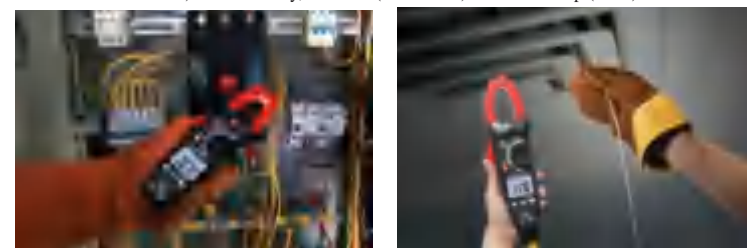
The 9380/9381/9382/9383 series clamp meters provide fast A/D converting sampling time, high accuracy, built-in datalogging offer all needed features for measurement. It is with modern bodies and jaws design for perfect handheld and tight place testing. A large backlight display (on most models) is easy to see and a handy data hold keeps measurements on the display.

- Double molded plastic housing
- True RMS measurement for ACV & ACA
- Flexible current probe expands the measurement range to 3000 ACA (9383)

Features	9380	9380A	9381	9381A	9382
Current measurement	AC	AC	AC/DC	AC/DC	AC/DC
Display counts	4000	6000	4000	6000	6000
1.8" TFT color LCD display counts					*
AC True RMS	*	*	*	*	*
10kHz bandwidth (voltage/current)					
Data Hold & Peak Hold		*		*	*
Max /Min Hold	*		*		*
REL (Zero) Function			*	*	*
Flashlight and Backlight	*	*	*	*	Flashlight
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
100ms Inrush current		*		*	*
Low input impedance prevents false readings due to "ghost voltage" (LoZ)		*		*	*
Low pass filter for accurate measurement of variable frequency drive (VFD) signals		*		*	*
1.9" (48mm) Jaw opening	*	*	*	*	*
Bluetooth interface					*
3000A ACA flexible clamp					*
Trend capture function					*
Fast response time					10 times/sec.
100 Graph Data review					*
NCV Function	*	*	*	*	*

Specifications	Max Range	Basic Accuracy	9380	9380A	9381	9381A	9382
Voltage DC	1000V	±(0.5%+2d)	*	*	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*	*	*
Current DC	1000A	±(2.0%+5d)			*	*	*
Current AC	1000A	±(2.5%+8d)	*	*	*	*	*
ACA flexible	3000A	±(2.5%+8d)					*
Resistance	60MΩ	±(3.0%+5d)	40MΩ	*	40MΩ	*	*
Temperature	1000°C/1832°F	±(1.0%+3d)	*	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*	*	*
Frequency	10kHz	±(0.5%+2d)	*	*	*	*	*
Inrush Current	1000A	±(2.5%+2d)		*		*	*
Continuity check	Buzzer sounds at 50Ω						
Diode test	Test current 0.3mA						

**Size(HxWxD):** 250mm x 78mm x 40mm     **Weight:** 350g  
**Accessories:** Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries (9380/9381/9380A/9381A) Li-ion battery, Software(9382/9383) Flexible clamp (9382)



- Fast response time
- True RMS
- TFT color LCD display (9382/9383)
- PC Calibration



Model 9381



Model 9380



Model 9382



Flexible clamp (optional) Model DT-320BS

Meterbox Pro





EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9282

- Fast response time
- True RMS

- PC Calibration
- Double molded housing



Meterbox Pro



Model 9281



CEM DT-9280/9281/9282 clamp meters provide fast A/D converting sampling time, high accuracy offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A clear backlit display (on most models) is easy to see and a handy data hold keeps measurements on the display.

Professional clamps featuring Low impedance (LoZ) mode and choice of advanced model with Low Pass Filter (VFD) and inrush functions (9282)

Features

	9280	9281	9282
Current measurement	AC	AC/DC	AC/DC
Display counts	6000	6000	6000
OLED display	*	*	*
Backlight & Flashlight	*	*	*
AC True RMS	*	*	*
Low pass filter (VFD)	*	*	*
Data Hold	*	*	*
Peak Hold	*	*	*
REL (Zero) Function	*	*	*
Auto Power Off	*	*	*
Low battery indication	*	*	*
100ms Inrush current	*	*	*
1.3" (34mm) Jaw opening	*	*	*
Bluetooth interface	*	*	*
Fast response time	*	*	*
LoZ Voltage measurement	*	*	*
NCV Function	*	*	*

Specifications

Function	Max Range	Basic Accuracy	9280	9281	9282
Voltage DC	1000V	±(0.5%+2d)	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*
Current DC	600.0A	±(2.0%+5d)	*	*	*
Current AC	600.0A	±(2.5%+8d)	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*
Temperature	1000°C/ 1832°F	±(1.0%+3d)	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*
Frequency	100kHz	±(0.5%+2d)	*	*	*
Inrush Current	600.0A	±(1.5%+2d)	*	*	*
Continuity check	Buzzer sounds at 50Ω				
Diode test	Test Current <0.5mA MAX 3V				

Size(HxWxD): 239mm x 72mm x 40mm Weight: 318g

Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries



The 9180 Series clamp meters provide fast A/D converting sampling time, high accuracy, built-in datalogging offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on the most of models) is easy to see and a handy data hold keeps measurements on the display.

- Double molded plastic housing (9180/9181/9182)
- True RMS measurement for ACV & ACA



• 400A AC, AC/DC True RMS Clamp Meters

- NCV Function



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9181

Features

	9180C	9180	9181	9182
Current measurement	AC	AC	AC/DC	AC/DC
Display counts	4000	4000	4000	4000
AC True RMS	*	*	*	*
Low pass filter (VFD)	*	*	*	*
Data Hold	*	*	*	*
Peak Hold /MAX/ MIN	MAX/ MIN	*	*	*
REL (Zero) Function	*	*	*	*
Flashlight and Backlight	*	*	*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
100ms Inrush current	*	*	*	*
1.18" (30mm) Jaw opening	*	*	*	*
LoZ Voltage	*	*	*	*
NCV Function	*	*	*	*

Specifications

Function	Max Range	Basic Accuracy	9180C	9180	9181	9182
Voltage DC	1000V	±(0.5%+2d)	600V	*	*	*
Voltage AC	1000V	±(1.0%+5d)	600V	*	*	*
Voltage VFD	600V			*	*	*
LoZ Voltage	<600V			*	*	*
Current DC	400.0A	±(2.0%+5d)		*	*	*
Current AC	400.0A	±(2.5%+8d)	*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	*	*	*	*
Temperature	1000°C/ 1832°F	±(1.0%+3d)	*	*	*	*
Capacitance	100mF	±(2.5%+5d)	4mF	*	*	*
Frequency	ACV 100kHz	±(0.5%+2d)	ACV 10kHz	*	*	*
Inrush Current	400.0A	±(1.5%+2d)	*	*	*	*
Diode test	Test Current <0.5mA MAX 3V		2V	*	*	*
Continuity check	Buzzer sounds at 50Ω					

Size(HxWxD): 225mm x 72mm x 40mm

Weight: 294g

Accessories: Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries



Model 9180C (Single molded plastic housing)



# AC True RMS Fork Clamp Meter With white LED Backlight



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033  
EN 61243-3:2014 (379)



390/391 clamp meter offers all needed features for measurement. It has small bodies and jaws design for perfectly handhold and tight place testing. A large backlit display is easy to see and a handy Display Hold keeps measurements on the display. Measuring starting current for motors, lighting, etc.

Features	390	391
200A AC Current measurement	*	*
Digital display counts	6000	6000
Display type(Negativity display)	*	*
Compact size	*	*
Data Hold & MAX/MIN Function	*	*
Peak Value & Inrush Current	*	*
Backlight for button, knob Switch & Flashlight	*	*
Low battery indication	*	*
17mm Jaw opening	*	*
Auto sense Voltage	*	*
NCV	*	*
Low Z & True RMS	*	*
Non contact voltage test	*	*

Specifications	390	391
Function		
Voltage DC	1000V	±(0.8%+3d) * *
Voltage AC	1000V	±(1.0%+3d) * *
Current AC	200A	±(3.5%+5d) * *
Resistance	60MΩ	±(3.0%+5d) * *
Capacitance	6000mF	±(2.5%+5d) * *
Non contact voltage test	600V	±(2.5%+5d) * *
LoZ (< 600V)		~3KΩ
Continuity check		Buzzer sounds at 50Ω
Diode test		Test current 0.35mA 3V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033  
EN 61243-3:2014 (379)



Model 390

## DT-379 Voltage Tester

Features
LCD/LED Indication Range: 6 V to 1000 V dc and ac/ 12 V to 1000 V dc and ac
Independent ELV indicator LED, indicates if >50 V ac/120 V dc is present even in the situation of no battery power or main circuit failure
Data HOLD
Backlight for button & Flashlight
Beeper for Phase/ACV
19 mm Probe Tip distance when docked
Auto Voltage detection/ Full range Polaritydetection
Operation time Duration Time =30 seconds, Recovery time Recovery Time =240 seconds

Specifications	Max Range	Basic Accuracy
Current AC	200A	±(3.5%+5d)
LEDs Voltage range	12 V to 1000 V ac/dc	Frequency range: 0 / 40 Hz to 400 Hz, Auto power on : ≥12 V ac/dc
LCD Voltage range	6V to 1000V ac/dc	±(3 % rdg + 5 digits), Frequency range:0 / 40 Hz to 400 Hz, Auto power on: ≥6 V ac/dc
Internal basic load impedance/ Peak current	Maximum 3.5 mA at 1000 V 350 kΩ / Is <3.5 mA (no RCD tripping)	
Continuity Test	0 to 400 kΩ	nominal resistance +50 % , Test current ≤5 μA
Resistance Measurement	0 Ω to 1999 Ω	±(5 % rdg +10 digits) @ 20 °C, Temperature coefficient: ±5 digits / 10 K, Test current : ≤30 μA

Size(HxWxD): 230mm x 44mm x 66mm Weight: 259g

Accessories: Test leads, gift box with carrying case, Two "1.5V AA" batteries.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033  
EN 61243-3:2014 (379)



Model 379



# Professional 600A AC, AC/DC True RMS Clamp Meters Built-in InfraRed Thermometers

DT-395/396 clamp meters provide fast A/D converting sampling time, high accuracy offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A clear backlit display (on most models) is easy to see and a handy data hold keeps measurements on the display.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033  
EN 61243-3:2014 (379)



## DT-395/396/397

Professional 600A AC, AC/DC True RMS Clamp Meters Built-in InfraRed Thermometers



- Double molded plastic housing
- True RMS measurement for ACV & ACA

- 100ms Inrush current

### Features

	395	396	397
Current measurement	AC	AC/DC	AC/DC
Display counts	6000	6000	6000
AC True RMS	*	*	*
Low pass filter (VFD)	*	*	*
Peak Hold & Data Hold	*	*	*
REL (Zero) Function	*	*	*
Backlight for LCD, knob Switch & Flashlight	*	*	*
Low battery indication & Auto Power Off	*	*	*
100ms Inrush current	*	*	*
1.3" (34mm) Jaw opening	*	*	*
Fast response time	*	*	*
LoZ Voltage measurement	*	*	*
NCV Function	*	*	*

### Specifications

Function	Max Range	Basic Accuracy	395	396	397
Voltage DC	1000V	±(0.5%+2d)	*	*	*
Voltage AC	1000V	±(1.0%+5d)	*	*	*
Current DC	600.0A	±(2.0%+5d)	*	*	*
Current AC	600.0A	±(2.5%+8d)	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*
Temperature	1000°C/ 1832°F	±(1.0%+3d)	*	*	*
IR Temperature	-20 ~ 750 °C/ -4 ~ 1400°F	±1%±1°C/1.8°F	*	*	*
Capacitance	100mF	±(2.5%+5d)	*	*	*
Frequency	100kHz	±(0.5%+2d)	*	*	*
Inrush Current	600.0A	±(1.5%+2d)	*	*	*
Continuity check	Buzzer sounds at 50Ω				
Diode test	Test Current <0.5mA MAX 3V				

Size(HxWxD): 239mm x 44mm x 66mm Weight: 318g

Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries

## DT-398 AC Leakage Current Tester

### Features

Accurate AC digital clamp meter for leakage current measurement  
 AC current measurement: 0 ~ 100A  
 AC voltage measurement: 0 ~ 600V  
 1μA ultra high resolution on 4.000 mA range  
 Shield transformer jaws to minimize the effect of external stray magnetic field.  
 Large jaw with 30 mm diameter.  
 ACA Five Ranges (40mA, 400mA, 4A, 40A, 100A) for all application.  
 A filter circuit is designed to eliminate the effect of high frequency noise and harmonics for AC current measurement.  
 Large 3 3/4 digits LCD  
 Fast bargraph display (30 times/sec.) for transient observation.  
 Continuity and Frequency measurements.  
 Max/Min, Data Hold functions, and Relative Measurement  
 Easy single rotary switch for any function selection  
 600V overload protection for ohm measurement

### Specifications

Function	Range	Resolution	Basic Accuracy
Current AC	4mA/40mA/400mA/4A/40A/100A	1μA~100mA	±(2.0%+3d)
Voltage AC	400V	0.1V	±(1.5%+10d)
Resistance	40~400Ω	0.1Ω	±(1.0%+2d)
Continuity Test	Threshold 40Ω, Continuity Beeper 2.5KHz		

Size(HxWxD): 239mm x 44mm x 66mm Weight: 318g

Accessories: Test leads, gift box with carrying case, temperature probe and 1.5V AAA x 3 batteries



IR Sensor



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033  
EN 61243-3:2014 (379)

Model 395



Model 398



# Professional 50,000 Counts Heavy Duty AC, AC/DC True RMS Autoranging Clamp Meters with Dual Type K Inputs



**CE**  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Meterbox Pro

## Amazing features and built-in apps. (3382/3383)

The Meterbox pro software can support our Clamp Meter products transferring the measured data to the customer's smartphone. Customers can easily use the software to check, transfer or edit the data with table and chart.

They also has powerful cloud functions, such as computing and storage service.

The 3380 series clamp meters offer all needed features for measurement, design for perfect handhold and tight place testing. A large backlit display is easy to see and a handy data hold keeps measurements on the display. Dual type K inputs for temperature measuring support more application.

- Double molded plastic housing
- True RMS measurement for ACV & ACA

### Features

	3380	3381	3382	3383	3386
Current measurement	AC	AC/DC	AC	AC/DC	AC/DC
LCD display counts	50000	50000	50000	50000	50000
AC True RMS	*	*	*	*	*
Dual type K inputs	*	*	*	*	
Display with backlight	*	*	*	*	*
Data Hold & Peak Hold	*	*	*	*	*
Dual type K inputs	*	*	*	*	single
REL (Zero) Function & Max /Min	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
1.9" (48mm) Jaw opening	*	*	*	*	*
NCV Detection & flashlight	*	*	*	*	*
3000A ACA Flexible clamp					*
Inrush Current					*
Bluetooth interface			*	*	

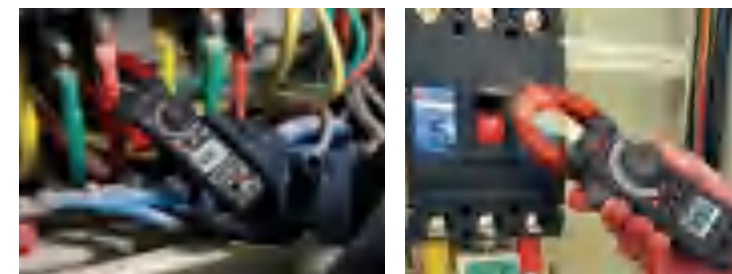
### Specifications

Function	Max Range	Basic Accuracy	3380	3381	3382	3383	3386
Voltage DC	600V	±(0.1%+4d)	*	*	*	*	1000V
Voltage AC	600V	±(1.0%+3d)	*	*	*	*	1000V
Current DC	1000A	±(2.5%+5d)		*		*	1000A
Current AC	1000A	±(2.5%+5d)	*	*	*	*	1000A
DC µA/mA Current	5000.0µA 500.00mA	±(1.0%+3d)	*	*	*	*	
AC µA/mA Current	5000.0µA 500.00mA	±(1.5%+30d)	*	*	*	*	
Resistance	50MΩ	±(3.0%+5d)	*	*	*	*	*
Temperature	1000°C/1832°F	±(1.0%+2.5°C)	*	*	*	*	*
Capacitance	5mF	±(3.5%+10d)	*	*	*	*	*
Frequency	10MHz	±(0.3%+2d)	*	*	*	*	*
ACA flexible clamp	3000A	±(2.8%+8d)					*
Continuity check	Buzzer sounds at 35Ω						50Ω
Diode test	Test current 0.3mA						*

Size(HxWxD): 230mm x 76mm x 40mm

Weight: 315g

Accessories: Test leads, gift box with carrying case, temperature probe and 9V battery.



Drop-proof to 2M

- True RMS
- Dual Type K Inputs



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 3383



Model 3386



The 3370B series clamp meters offer all the features you need to fit the way you work. The bodies and jaws fit perfectly in your hand and into tight places. A large backlit display is easy to see and a handy Display Hold keeps measurements on the display.

- Double molded plastic housing
- True RMS measurement for ACV & ACA

Drop-proof to 2M

True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 3371B

Features	3370B	3371B	3372B	3373	3376
Current measurement	AC	AC/DC	AC/DC	AC/DC	AC/DC
LCD display counts with backlight	4000	4000	6000	6000	6000
AC True RMS	*	*	*	*	*
Flashlight	*	*	*	*	*
Data Hold & Peak Hold	*	*	Data Hold	Peak Hold	*
Max /Min			*	*	*
REL (Zero) Function	*	*	*	*	*
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
Analog Bargraph / 61 seg.	*/ 41 seg.	*/ 41 seg.	*	*	*
1.9" (48mm) Jaw opening	*	*	*	*	*
NCV Detection & flashlight	*	*	*	*	*
Inrush Current				*	*
3000A ACA Flexible clamp					*

Specifications	Max Range	Basic Accuracy	3370B	3371B	3372B	3373	3376
Voltage DC	1000V	±(0.5%+1d)	600V	600V	*	*	*
Voltage AC	1000V	±(1.5%+2d)	600V	600V		*	*
Current DC	1000A	±(2.0%+5d)		*		*	*
Current AC	1000A	±(2.5%+4d)	*	*		*	*
Resistance	60MΩ	±(3.0%+5d)	40M	40M		*	*
Temperature	1000°C/ 1832°F	±(3.0%+3°C)	*	*	*	±(1.0%+3°C)	±(1.0%+3°C)
Capacitance	10mF	±(2.5%+5d)	4000uF	4000uF	6mF	6000uF	6000uF
Frequency	10MHz	±(1.2%+2d)	*	10kHz	*	10MHz	10MHz
Inrush Current	1000A	±(1.5%+2d)	*	*		*	*
ACA Flexible clamp	3000A	±(3.5%+10d)					*
Continuity check	Buzzer sounds less than 50Ω						
Diode test	Test current 0.3mA						

Size(HxWxD): 230mm x 76mm x 40mm

Weight: 315g

Accessories: Test leads, gift box with carrying case, temperature probe and 9V battery.



Model 3372



3391/3392/3395 Series Professional True RMS Clamp Meters provide accurate AC, AC/DC current and voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

1000A True RMS

Peak Hold Function(3392/3392W/3392BT)



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 3390

Features	3390	3391/3391W	3392/3392W/3392BT	3395
True RMS measurements		*	*	*
Digital display counts	4000	4000	4000	6000
Electronic overload protection	*	*	*	*
Analog Bargraph/segments			*/41	*/61
Continuity buzzer & Diode check	*	*	*	*
Data Hold function	*	*	*	*
Peak Hold function			*	Min./Max.
Inrush current measurement				
DCA Zero function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
AC/DC Current	AC	AC	*	*
2" (52mm) Clamp jaw opening	*	*	*	*
NCV Detection	*	*	*	*
Bluetooth data transmission			3392BT	
Wireless USB interface		3391W	3392W	

Specifications	Max Range	Basic Accuracy	Max. Resolution	3390	3391 3391W	3392 3392W 3392BT	3395
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA			*	*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	*	*	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF	100μF	100μF	*	4000μF
Frequency	10MHz	±(1.2%+3d)	0.01MHz	*	*	4kHz	*
Temperature	1000°C/1832°F	±(3.0%+5d)	1°C/°F		*	*	*

Size(HxWxD): 271mm x 100mm x 47mm

Weight: 508g

Accessories: Test leads, gift box with carrying case, 9V battery and temperature probe (3391/3391W/3392/3392W/3392BT/3395/3397)



Model 3392



DT-3369T-BT professional 1000A AC/DC clamp meter provides multi-function for 1000A AC/DC, voltage, resistance, capacitance, frequency, temperature, duty cycle and continuity. This is with 6000 counts digital LCD display and analog bargraph, with bluetooth work with Meterbox Pro App to transmit and share data.

Features	
6000 Counts digital display with 60 segments analog bar	
Electronic overload protection	
Continuity buzzer & Diode check	
Data Hold function & Backlight	
DCA Zero function	
Min/Max Hold function	
Low battery indication & Auto Power Off	
AC/DC Current	
True RMS measurement	
1.2" (30mm) Clamp jaw opening	
Inrush current function & Peak Voltage function	
Bluetooth interface	
NCV Detection: 100V to 600V AC	

Specifications			
Function	Max Range	Basic Accuracy	Max. Resolution
DC Current	1000A	±(2.5%+5d)	1mA
AC Current	1000A	±(3.0%+4d)	10mA
DC Voltage	600V	±(0.8%+2d)	0.1mV
AC Voltage	600V	±(1.0%+4d)	0.1mV
Resistance	60MΩ	±(1.0%+4d)	0.1Ω
Capacitance	6000μF	±(3.0%+5d)	0.01nF
Frequency	10MHz	±(1.2%+3d)	0.001Hz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%
Temperature	1000°C/1832°F	±(3.0%+3d)	0.1°C/°F
Inrush current	1000A	0.1A	±(2.0%+5d)
Continuity check	Threshold 50Ω, test current <1mA		
Diode test	Test current of 1.5mA typical, open circuit voltage <3V DC typical		

**Size(HxWxD):** 229mm x 80mm x 49mm **Weight:** 303g  
**Accessories:** Test leads, gift box with carrying case, 9V battery and temperature probe.



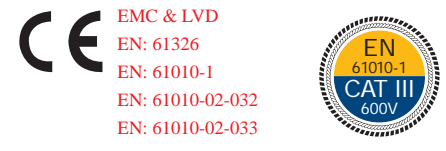
Model 3369T-BT



Meterbox Pro

Bluetooth

3345/3360 Series Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.



Model 3345

Model 3347

Model 3360

Features		3343T	3345	3347	3347W	3360	3361	3363	3367	3366	3368
True RMS measurements		*	*	*	*	*	*	*	*	*	*
Digital display counts		4000	4000	4000	4000	6000	6000	6000	6000	6600	6600
AC/DC Current		AC/DC	AC	AC/DC	AC/DC	AC	AC	AC/DC	AC/DC	AC	AC/DC
1.2" (30mm) Clamp jaw opening		*	*	*	*	*	*	*	*	*	*
Electronic overload protection		*	*	*	*	*	*	*	*	*	*
Continuity buzzer & Diode check		*	*	*	*	*	*	*	*	*	*
Data Hold function		*	*	*	*	*	*	*	*	*	*
Analog Bargraph/segments		*	*	*	*	*/60	*/60	*/60	*/60	*/60	*/60
Peak Hold function		*	*	*	*	*	*	*	*	*	*
DCA Zero function		*	*	*	*	*	*	*	*	*	*
MAX/MIN Hold function						MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN
Auto Power Off		*	*	*	*	*	*	*	*	*	*
Low battery indication		*	*	*	*	*	*	*	*	*	*
Inrush current function										*	*
USB interface					*						
Wireless transmitter					915MHz						
Communication Distance					≤ 100m						

Specifications		3343T	3345	3347/3347W	3360	3361	3363	3367	3366	3368
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*	*	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA	*	*	*	*	*	*	*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*	*	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*	*	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	*	*	60MΩ	60MΩ	60MΩ	60MΩ	66MΩ
Capacitance	40mF	±(3.0%+5d)	0.01nF	100μF	*	*	*	*	40mF	40mF
Frequency	10MHz	±(1.2%+3d)	0.01MHz	100kHz	4kHz	4kHz	*	*	10kHz	10kHz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%	*	*	*	*	*	*	*
Temperature	1000°C/1832°F	±(3.0%+5d)	1°C/°F	*	*	*	*	*	*	*
Inrush current	1000A	0.1A	±(2.0%+5d)						*	*
Continuity check	Threshold 40Ω, test current <0.5mA			*	*	*	*	*	*	*
Diode test	Test current of 0.3mA typical, open circuit voltage <3V DC typical			*	*	*	*	*	*	*

**Size(HxWxD):** 229mm x 80mm x 49mm **Weight:** 303g  
**Accessories:** Test leads, gift box with carrying case, 9V battery; temperature probe (3343T/3345/3347/3347W/3361/3363/3367/3366/3368)  
 USB cable and Software(3347W)



# 3000A True RMS AC Flex Clamp Meter



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

## Features

	320/320H	320S
Head cable length	18" (457mm)	10" (254mm)
3000A AC current measurement	*	*
Auto ranging	*	*
Data Hold & MAX/MIN	*	*
3000 counts large scale LCD display with backlight	*	*
7.5mm coil diameter for tight space measurement	*	*
Indication low battery	*	*
Ergonomically designed one hand operation	*	*
CAT IV 600V/CAT III 1000V safety standard	*	*

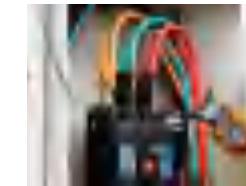
## Specifications

Function	Max Range	Resolution	Basic Accuracy	HAccuracy (320H)
AC Current	30.00A AC	0.01A	± (3.0% + 8d)	± (2.5% + 5d)
50-400Hz	300.0A AC	0.1A	± (3.0% + 5d)	± (2.5% + 5d)
True RMS	3000A AC	1A	± (3.0% + 5d)	± (2.5% + 5d)

Size(HxWxD): 180mm x 106mm x 28mm Weight: 200g  
Accessories: Clamshell, 1.5V AAA x 2 battery



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 320/320H

Model 320S

## DT-320B/320BS 3000A AC Flex Clamp Adaptor

## Features

18" (457mm) head cable length (320B)
10" (254mm) head cable length (320BS)
3000A AC current measurement
Slide switch to change range
Voltage output to universal voltage meters
7.5mm coil diameter for tight space measurement
2 meter extension cable
Low Bart. LED indicator
Ergonomically designed one hand operation
CAT IV 600V/CAT III 1000V safety standard

## Specifications

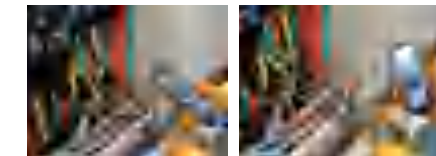
Function	Max Range	Measurement Range	Basic Accuracy	Output Voltage
AC Current	30A AC	≤30.00A	100mV/A	± 3.0%
50-400Hz	300A AC	30.0A-300.0A	10mV/A	± 3.0%
	3000A AC	300A-3000A	1mV/A	± 3.0%

Size(HxWxD): 180mm x 106mm x 28mm  
Weight: 210g

Accessories: Clamshell, 1.5V AAA x 2 batteries



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 320B

## DT-388 Flexible AC Current Clamp meter with Datalogger

## Features

AC current True RMS measurements
4000 counts display with backlight & Analogue Bar Graph
Electronic overload protection
Data Hold & Inrush function
Inrush Current
Bluetooth interface
Jaw opening 457mm (18 in) coil
3000A ACA flexible clamp
Auto Power Off
Low battery indication

## Specifications

AC current range	0.5A to 3000A AC
Resolution	0.01A
Accuracy	3% ± 5 digits (50Hz to 400Hz)
Memory	Record up to 16000 readings
Safety rating	CAT IV 600V, CAT III 1000V

Size(HxWxD): 230mm x 76mm x 40mm Accessories:  
Weight: 315g Gift box with carrying case, 1.5V AAA x 2 batteries, APP Software.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



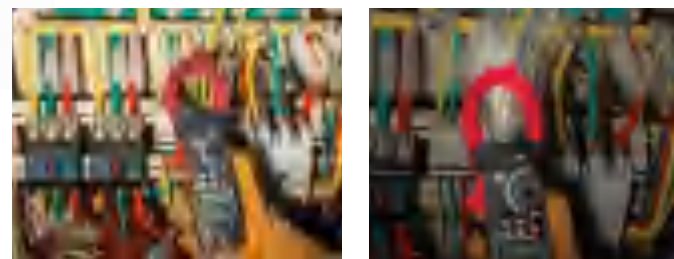
Model 388



CATIV 1000V 2000A AC, AC/DC True RMS Clamp Meters



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- CAT IV 1000V Safety design
- True RMS measurements
- 2000A AC, AC/DC Clamp Meters
- Inrush current measurement
- Bluetooth data transmission
- AC+DC Applications with Testing & Maintenance (3398W)

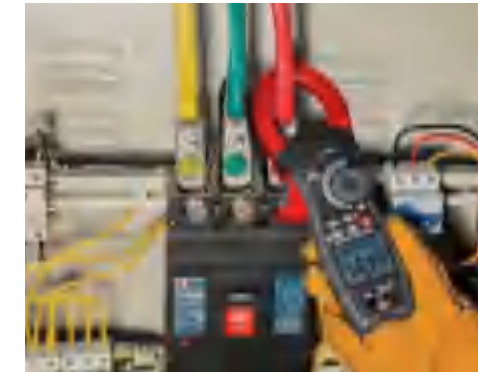
3398/3398B/3398W Series Professional True RMS Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

2000A True RMS

- Peak Hold Function
- Inrush Current Measurement



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 3398B



Model 3398W

Features

	3398	3398B	3398W
AC/DC Current	AC	AC/DC	AC/DC
Clamp jaw opening	2" (52mm)	2" (52mm)	2" (52mm)
Digital display counts	6000	6000	6000
Electronic overload protection	CAT IV 1000V	CAT IV 1000V	CAT IV 1000V
True RMS measurements	*	*	*
Analog Bargraph/segments		*/61	*/61
Continuity buzzer & Diode check	*	*	*
Data Hold & Peak Hold function	*	*	*
Flash light & Black light function	*	*	*
MAX/ MIN	*	*	*
Inrush current measurement	*	*	*
DCA Zero function	*	*	*
NCV Detection	*	*	*
Auto Power Off	*	*	*
Low battery indication	*	*	*
V AC+DC			*
THDf / THDr			25th harmonic
Phase rotation indication			*
Bluetooth data transmission		*	*
Low pass filter			*

Specifications

Function	Max Range	Basic Accuracy	Max. Resolution	3398	3398B	3398W
AC Current	2000 A	±(2.5%+5d)	1A	*	*	*
DC Current	2000 A	±(3.0%+4d)	1A		*	*
AC Voltage	1000V	±(0.8%+2d)	0.1mV	*	*	*
DC Voltage	1000V	±(1.0%+4d)	0.1mV	*	*	*
Resistance	60MΩ	±(1.0%+4d)	0.1Ω	*	*	*
Capacitance	10mF	±(3.0%+5d)	0.01nF	*	*	*
Electronic Frequency	100kHz	±(1.2%+3d)	0.01kHz	*	*	*
Temperature	1000°C/1832°F	±(3.0%+5d)	1°C/°F		*	*
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)			*
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)			*
Active Power	999.9KW		A.error x vreading + Verror x A.reading			*
Power Fartor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)			*
Continuity check	Buzzer sounds at 50Ω					*
Diode test	Test current <0.5mA Max 3V					*

Size(HxWxD): 308mm x 97mm x 47mm Weight: 732g

Accessories: 1.5V AA x 3 batteries and Temperature probe (3398B/3398W), test leads, gift box with carrying case.





Model 3170



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



3170 Milliamp clamp meter measures mA signals for PLC and control system analog I/O, with extension cable for measurements in tight locations

### Features

High accuracy 0.5%
0.01 mA resolution and sensitivity
0.18 in or 4.5mm max. diameter of measurable conductor
Measuring 4 to 20 mA signals without "breaking the loop"
Measuring mA signals for PLC and control system analog I/O
Dual backlit display with both mA measurement and percent of 4 to 20 mA span
Measurement Spotlight illuminates where hard to see wires in dark enclosures
Detachable clamp with extension cable for measurements in tight locations
Measuring 10 to 50 mA signals in older control systems by using the 99.9 mA range
Automatically change 4 to 20 mA output for remote testing
Power saving features, auto-off, backlight timeout extend battery life
Hold function captures and displays changing measurements

### Specifications

Function	Range/ Resolution	Accuracy
mA measurement	0 to 20.99 mA	0.5% + 5 counts
	21.0mA to 100.0 mA	1.5% + 5 counts

**Size(HxWxD):** 215mm x 55mm x 36mm **Weight:** 200g

**Accessories:** Gift box with carrying case & two "AA" 1.5V batteries.

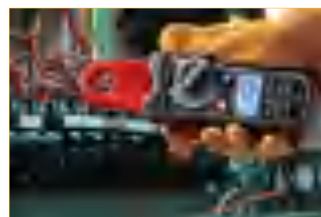
### DT-338 Mini AC/DC Clamp Meter



Model 338



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The 338 is new designed to verify the presence of load current, voltage and resistance, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

### Features

0.8" Small jaw size
1mA high resolution
True RMS AC clamp-on multimeter
Type K Temperature function
Digital clamp tester for AC/DC current measurement
Providing wide measuring range from very small to large current
Designed to safety standard IEC 61010-2-032: CAT III 600V and pollution degree 2.
4000 Counts LCD display
Auto power off & Data hold function
Peak hold, Max/Min hold and Relative functions
Advanced functions include Capacitance, Frequency

### Specifications

Function	Max. Range	Max. Resolution	Basic Accuracy
Current AC	80A	1mA	±(2.5%+5d)
Current DC	80A	1mA	±(2.5%+4d)
Voltage AC	400mV~600V	0.1mV	±(2.0%+4d)
Voltage DC	400mV~600V	0.1mV	±(1.5%+3d)
Resistance	400Ω~40MΩ	0.1Ω	±(1.5%+2d)
Frequency	5Hz~10MHz	0.001Hz	±(1.2%+3d)
Capacitance	40mF	0.001nF	±(3.5%+10d)
Temperature	-20°C~+760°C	0.1 °C	±(2.0%+3°C)
	-4 °F~+1400 °F	0.1 °F	±(2.0%+3°F)
Diode Check	Test current of 0.3mA, Open circuit voltage 3.0V(338)		
Continuity Check	Threshold 50Ω		

**Size(HxWxD):** 210mm x 70mm x 37mm **Weight:** 200g

**Accessories:** Test leads, Gift box with carrying case, 9V battery.

### Features

Large transformer jaws of 68mm diameter makes it possible to clamp on all three or four wires (3 phases) together for leakage current measurement.
Frequency filter switch to eliminate the effect of the harmonics.
Measurement from mA up to AC 1000A
True RMS enables an accurate measurement for distorted waveforms.
Peak hold function
Data hold function: Allows for easy reading in dimly light or hard-to-reach locations
Large LCD display with backlight
International safety standard IEC61010-1 CAT.III 600V

### Specifications

Function	Range	Range	Accuracy(50/60Hz)	Accuracy(40~1kHz)
AC Current	200mA	0.1mA	±(1.5%+10d)	±(3.0%+10d)
	2A	1mA	±(1.5%+10d)	±(3.0%+10d)
	20A	10mA	±(1.5%+10d)	±(3.0%+10d)
	200A	100mA	±(2.0%+10d)	±(3.5%+10d)
	1000A	1A	±(5.5%+10d)	±(10%+10d)
AC Voltage	600V	0.1V	±(1.0%+5d)	
DC Voltage	600V	0.1V	±(1.0%+5d)	
Resistance	600Ω	0.1Ω	±(1.0%+5d)	
Continuity test	Threshold 40Ω, Continuity Beeper 2KHz			
Conductor size	Φ68mm max.			
Frequency response	40Hz-1kHz			
Effect of external stray magnetic field Φ15mm 100A	10mA AC max.			
Applicable standards	IEC 61010-1 CAT.III 600V IEC 61010-2-032			

**Size(HxWxD):** 250mm x 113mm x 45mm **Weight:** 490g

**Accessories:** , Test leads, Gift box with carrying case and 9V battery.



Model 9812



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



### DT-9810H Mini AC Leakage Current Tester with LPF Measurement

- Shielded transformer jaw opens to 1.2"
- 100µA high resolution
- Low pass filter (LPF) for accurate measurement
- Least affected by external magnetic field, providing wide measuring range from very small to large current
- Designed to safety standard IEC 61010-2-032: over-voltage CATIII 300V and pollution degree 2.
- Data hold function to allow for easy reading in dimly lit or hard-to-reach locations
- Dynamic range of 2000 counts full scale
- Auto power off

### Specifications

Function	Resolution	Basic Accuracy
200mA	0.1mA	±(2.5% + 8d)
2A	1mA	±(2.5% + 8d)
200A	0.1A	±(2.5% + 8d)

**Size(HxWxD):** 182mm x 61mm x 34mm

**Weight:** 225g

**Accessories:**

Gift box with carrying case and 9V battery



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9810H



3351 are True RMS 1500A AC/DC Clamp Meters, 3352 is a True RMS Power Meter, which provide much more safe measurements with double molded plastic housing design. True RMS AC/DC voltage and current measurements, 40,000 counts and 0.1% basic DC voltage accuracy within the reach of more customers. The large LCD display with analog bargraph and backlight ensures that readings are easy to read under all circumstances.

This series can test the current for motors, lighting, etc. is easy with their rush current function. All inputs are protected by EN 61010-1 CATIV 600V/CATIII 1000V.



Model 3351

- Peak Hold Function
- Inrush current measurement

- 1500A True RMS
- 40000 Counts(3351/3352)



Model 3350



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features		
	3351	3352
Current measurement	AC/DC	AC/DC
Power clamp meter		*
LCD display counts	40000	40000
AC True RMS	*	*
Display with backlight	*	*
Inrush current measurement	*	*
Max /Min, Data Hold	*	*
REL (Zero) Function	*	*
Auto Power Off	*	*
Low battery indication	*	*
Analog Bargraph / 41 seg.	*	*
2.16" (55mm) Jaw opening	*	*
NCV Detection	*	*

Specifications				
Function	Max Range	Basic Accuracy	3351	3352
Current DC	1500A	±(2.0%+10d)	*	*
Current AC	1500A	±(2.8%+10d)	*	*
AC kW/kVA	900.0kW	±(3.0%+10d)	*	*
( AC kW/kVA TRMS 0-600V, 0-1500A, 50/60Hz)				
DC kW/kVA	900.0kW	±(2.5%+10d)	*	*
( DC kW/kVA 0-600V, 0-1500A, 50/60Hz)				
Power Factor	0.3~1	±(2.5%+10d)	*	*
Voltage DC	1000.0V	±(0.1%+5d)	*	*
Voltage AC	750.0V	±(0.5%+5d)	*	*
Resistance	40.000MΩ	±(0.5%+4d)	*	*
Temperature	1000°C/ 1832°F	±(1.0%+1°C/1°F)	*	*
Capacitance	40.00mF	±(2.5%+5d)	*	*
Duty Cycle	10.0 to 95.0%	±(0.5%+2d)	*	*
Frequency	40.000MHz	±(1.2%+2d)	*	*
Inrush Current	1500A	±(1.5%+2d)	*	*
Continuity check	Buzzer sounds at 50Ω			
Diode test	Test current 0.3mA			

Size(HxWxD): 295mm x 100mm x 46mm

Weight: 537g

Accessories: Test leads, gift box with carrying case and 9V battery temperature probe.



3349W/3349W-BT 1000A AC/DC power quality True RMS clamp meter measure power and power factor, total harmonic distortion, individual harmonics, as well as AC/DC voltage, current, capacitance, inrush current analysis, and phase sequence. The low pass filter enables voltage and current measurements on variable frequency drives. It allows quick selection of the numerous measurement features on the large LCD display.

- Double molded plastic housing
- True RMS measurement for ACV & ACA



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features		
True RMS		
Non-contact voltage detection		
Inrush current measurement for motors		
Low pass filter for variable frequency drives		
Continuity Beeper		
Min, Max and Smart Data Hold, Peak hold		
Auto torch-light when clamping		
Large 10,000 count display with active backlight and analog bar graph		
Auto Power Off		
Maximum jaw opening 1.63" (42mm)		
CAT IV 600 V /CAT III 1000 V safety standard		
Bluetooth interface (3349W-BT)		
Meterbox iMM & cloud service		

Specifications			
Function	Max Range	Max. Resolution	Basic Accuracy
AC True RMS Current	60.00A	100mA	±(2.5% +8d)
	1000A	1A	±(3% +8d)
DC Current	60.00A	100mA	±(2.5% +0.2A)
	1000A	1A	±(3% +8d)
DC Voltage	600.0mV, 6.000V, 60.00V, 600.0V, 1000V	0.1mV	±(0.8% +20d)
AC True RMS Voltage	6.000V, 60.00V, 600.0V, 1000V	1mV	±(1.0% +5d)
Resistance	600.0Ω, 6.000kΩ, 60.00kΩ, 600.0kΩ, 6.000MΩ, 60.00MΩ	0.1Ω	±(1% +4d)
Capacitance	6.000nF, 60.00nF, 600.0nF, 6.000uF, 60.00uF, 600.0uF, 6000uF	1pF	+(5% +30d)
Frequency	6.000Hz, 60.00Hz, 600.0Hz, 6.000KHz, 60.00KHz, 600.0KHz, 10MHz	0.001Hz	+(1.0% +5d)
	10Hz to 10kHz, 40Hz to 100Hz		±(1.0% +5d)
Duty Cycle	0.5%~99.9%	0.1	+(1.2% +10d)
Temperature	-50°C~-1000°C, -58 °F~-1832°F	0.1 °C/ °F	+(3% +5°C/ 9°F)
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)
Active Power	999.9KW		A.error x V.reading + V.error x A.reading
Power Factor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)
Diode test	Forward DCA is approx.1mA, open circuit Voltage MAX . 3V		
Continuity check	Buzzer sounds at 50Ω		

Size(HxWxD): 230mm x 76mm x 40mm

Weight: 315g

Accessories:

Test leads, temperature probe, gift box with carrying case, 9V battery.



Model 3349W



Meterbox Pro





3353 Professional True RMS 1000A AC Watt Clamp Meter provides accurate Watt, AC Current and Voltage readings regardless of waveforms.



1000A True RMS

DC/AC True Power to 750kW



EMC &amp; LVD

EN: 61326

EN: 61010-1

EN: 61010-02-032

EN: 61010-02-033



### Features

- Analysis for Single Phase and Balanced 3 phase system
- True RMS Value (Voltage and Current)
- Large dual LCD Display with Backlight
- USB interface
- Data Hold, MIN / MAX measurement
- True power / apparent power / power factor measurement
- Auto Ranging & Auto Power Off
- Overflow Indication
- Manual Data Memory and Read (99 sets)
- NCV Detection
- 2.16" (55mm) Jaw opening

### Specifications

Function	Range	Basic Accuracy
AC Voltage	15V/100V/300V/750V	±(1.2%+5)
AC Current	40A/100A/400A/1000A	±(2%+5)
True Power	0.60kW—750kW	±(3%+5)
Apparent Power	0.60kVA—750kVA	±(3%+5)
Reactive Power	0.60kVAr—750kVAr	±(4%+20)of 15V/1000A else±(4%+5)
Power Factor	0.3-1	±(2%+20)
Phase Angle	0°-90°	±1°
Frequency	20Hz-200Hz	±(0.5%+5)
Energy	1-9999kWh	±(3%+2)

**Size(HxWxD):** 295mm x 100mm x 46mm

**Weight:** 537g

**Accessories:**

Test leads, gift box with carrying case and 9V battery, USB Cable, CD Software.

Model 3353

## DT-3348 True RMS 1000A AC/DC Watt Clamp Meter

3348 Professional True RMS 1000A AC/DC Watt Clamp Meter provides accurate Watt, AC/DC Current and Voltage readings regardless of waveforms.



1000A True RMS

DC/AC True Power to 240kW



### Features

- True RMS AC Voltage and Current
- DC and AC True Power to 240kW
- 1.2"(30mm) Clamp jaw opening
- Electronic overload protection
- Continuity buzzer & Diode check
- Data Hold function
- DCA Zero function
- Auto Power Off
- Low battery indication
- AC/DC Current

### Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
AC Current	1000 A	0.1A	±(2.5%+5d)
DC Current	1000 A	0.1A	±(3.0%+4d)
AC Voltage	600V	0.1mV	±(0.8%+2d)
DC Voltage	600V	0.1mV	±(1.0%+4d)
Resistance	40MΩ	0.1Ω	±(1.0%+4d)
Frequency	10MHz	0.01MHz	±(1.2%+3d)
AC Power	240kW	10W	±(3.0%+5d)
DC Power	240kW	10W	±(2.5%+5d)

**Size(HxWxD):** 229mm x 80mm x 49mm

**Weight:** 303g

**Accessories:**

Test leads, gift box with carrying case & 9V battery

Model 3348

### Features

- AC/DC Current
- 2" (52mm) Clamp jaw opening
- 60,000 Counts LCD digital display
- CAT IV 1000V Electronic overload protection
- A AC+DC, V AC+DC True RMS measurements
- Analog Bargraph/segments
- Inrush current measurement & MAX/ MIN
- Data Hold & Peak Hold function
- Flash light & Black light function
- DCA Zero function
- NCV Detection
- Auto Power Off & Low battery indication
- THDf / THDr 25th harmonic
- Phase rotation indication
- Bluetooth data transmission
- Low pass filter

### Specifications

Function	Max Range	Basic Accuracy	Max. Resolution
AC Current	2000 A	±(2.5%+5d)	1A
DC Current	2000 A	±(3.0%+4d)	1A
AC Voltage	1000V	±(0.8%+2d)	0.1mV
DC Voltage	1000V	±(1.0%+4d)	0.1mV
Resistance	60MΩ	±(1.0%+4d)	0.1Ω
Capacitance	10mF	±(3.0%+5d)	0.01nF
Electronic Frequency	100kHz	±(1.2%+3d)	0.01kHz
Temperature	1000°C/1832°F	±(3.0%+5d)	1°C/°F
Total Harmonic Distortion	99.9%	0.1%	±(3% + 10d)
Harmonic distortion measurement	99.9%	0.1%	±(5% + 10d)
Active Power	999.9KW		A.error x vreading + V.error x A.reading
Power Factor	-1.0 ~ 0, 0 ~ 1.0		±(3% + 1d)
Continuity check	Buzzer sounds at 50Ω		
Diode test	Test current <0.5mA Max 3V		

**Size(HxWxD):** 308mm x 97mm x 47mm **Weight:** 732g

**Accessories:** 1.5V AA x 3 batteries and Temperature probe, test leads, gift box with carrying case

## DT-3355 Earth Ground Clamp Meter

### Features

- Large LCD display with backlight
- Span of Jaw: 28mm for a long jaw; 32mm for a round jaw:
- Protection Level: Double insulation
- Structural Feature: In the jaw way
- Range Shift: Automatic
- External Magnetic Field: 40A/m
- External Electric Field: 1V/m
- Single Measuring Time: 1 second
- Measurement Resistance Frequency: 1kHz
- Maximum Resistance Measurement Resolution: 0.001 Ω
- Resistance Measurement Range: 0.01-1000 Ω

### Specifications

Function	Max Range	Max. Resolution	Basic Accuracy
Resistance	0.01~1000Ω	0.001Ω	±(1.0%+10d)
Current	0 ~ 20 A	1mA	±(2.5%+2d)

**Size(HxWxD):** 288mm x 100mm x 95mm

**Weight:** 1154g (for long jaw); 1120g (for round jaw).

**Accessories:** Gift box with carrying case and 9V battery.

Model 3355



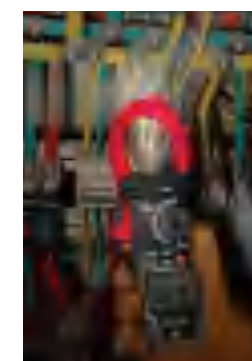
EMC &amp; LVD

EN: 61326

EN: 61010-1

EN: 61010-02-032

EN: 61010-02-033



Model 3399



EMC &amp; LVD

EN: 61326

EN: 61010-1

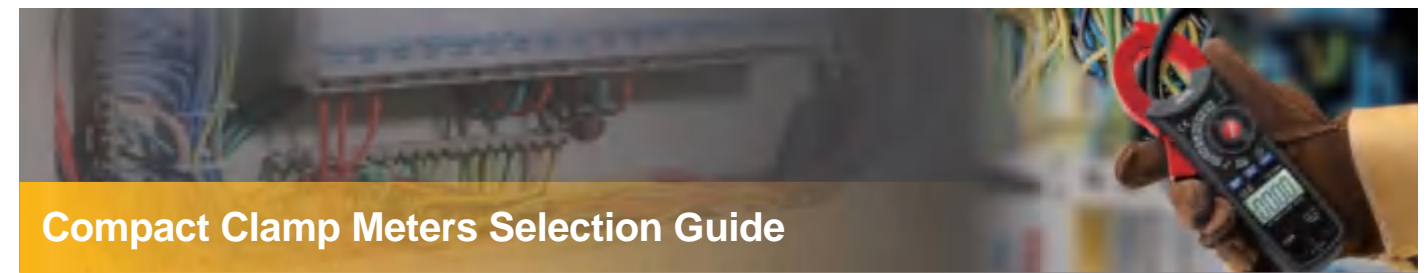
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EN: 61010-02-033





## Compact AC, AC/DC Autoranging Clamp Meters



### Compact Clamp Meters Selection Guide



#### 400A AC, AC/DC True RMS Clamp Meters with Inrush current

**DT-9180** Series clamp meters provide fast A/D converting sampling time, high accuracy, built-in datalogging offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on the most of models) is easy to see and a handy data hold keeps measurements on the display.



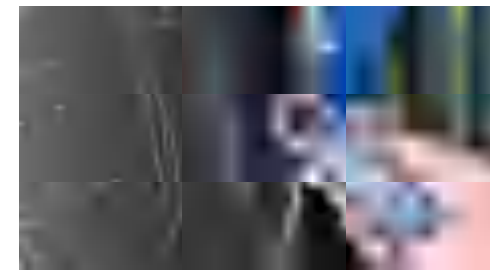
#### 1000A AC/DC True RMS Autoranging Clamp Meter

**DT-356H** offer all needed features for measurement, is designed to perform in the toughest environments and provide noisy-free, reliable results, to help you diagnose all kinds of electrical problems. Its compact design is well suitable for perfect handhold and measurement in tight and crowd place. True RMS measurement is for accurate reading of non-linear signals. Commercial and residential electricians use it to verify the present of load current, continuity of circuit, switches, fuse and contacts.



#### Compact AC, AC/DC Autoranging Clamp Meters

**DT-371** series clamp meters offer all needed features for measurement. It is with small bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy display hold keeps measurements on the display.



#### Mini AC, AC/DC Clamp Meters

**FC-21/22** are compact mini amp clamp meters, are specifically designed to reach into very small areas and has a very low-current sensitivity. This amp clamp performs essential troubleshooting tasks in plant maintenance, electrical, HVAC, and telecom work as well as residential, automotive, fleet maintenance, marine, and motorcycle electrical repair.



#### Smaller sized , convenient-to-use AC current clamp-on Adaptor

**CP-09** is the ideal tool to extend the current ranges for all Multimeters. The CP-09 is a 200A AC current clamp-on adaptor with voltage output via a standard banana inputs to be connected to multimeters.





The 9180A Series clamp meters providing fast A/D converting sampling time, high accuracy, built-in datalogging offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on the most of models) is easy to see and a handy data hold keeps measurements on the display.



Model 9180A



Model 9180H  
(Single molded plastic housing)

• 400A AC True RMS Clamp Meters

• True RMS measurement for ACV & ACA

• True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	9180A	9180B	9180H
Current measurement	AC	AC	AC
Display counts	2000	4000	4000
AC True RMS	*	*	*
Low pass filter (VFD)		*	
Data Hold	*	*	*
Peak Hold /MAX/ MIN	MAX/ MIN	MAX/ MIN	MAX/ MIN
REL (Zero) Function		*	
Flashlight and Backlight	*	*	*
Auto Power Off	*	*	*
Low battery indication	*	*	*
1.18" (30mm) Jaw opening	*	*	*
NCV Function	*	*	*

Specifications	Max Range	Basic Accuracy	9180A	9180B	9180H
Voltage DC	1000V	±(0.5%+2d)	600V	*	600V
Voltage AC	1000V	±(1.0%+5d)	600V	*	600V
Voltage VFD	600V			*	
Current AC	400.0A	±(2.5%+8d)	*	*	*
Resistance	40MΩ	±(3.0%+5d)	*	*	*
Temperature	1000°C/ 1832°F	±(1.0%+3d)			*
Capacitance	100mF	±(2.5%+5d)		*	4mF
Frequency	ACV 10kHz	±(0.5%+2d)		*	*
Inrush Current	400.0A	±(1.5%+2d)		*	*
Diode test	Test Current <0.5mA MAX 3V		2V	*	2V
Continuity check	Buzzer sounds at 50Ω				

Size(HxWxD): 225mm x 72mm x 40mm

Weight: 294g

Accessories: Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries



The 333H Series clamp meters provide fast A/D converting sampling time, high accuracy, built-in datalogging offer all needed features for measurement. It is with modern bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on the most of models) is easy to see and a handy data hold keeps measurements on the display. The turntable can be rotated for easy two-hand operation.

- Single molded plastic housing
- True RMS measurement for ACV & ACA

• 400A AC, AC/DC True RMS Clamp Meters

• True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



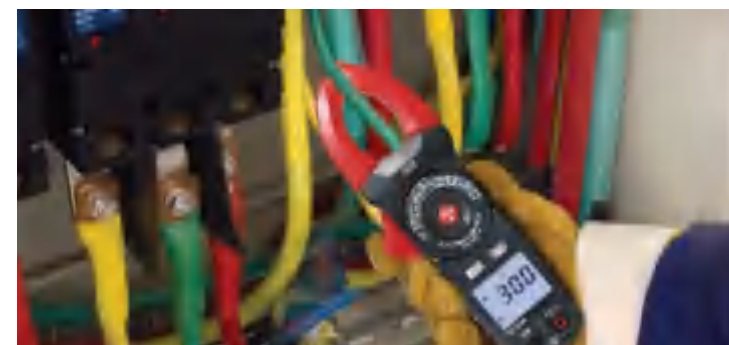
Features	333H	335	335H	336
Current measurement	AC	AC	AC/DC	AC/DC
Display counts	2000	4000	4000	4000
AC True RMS	*	*	*	*
Low pass filter (VFD)				*
Data Hold	*	*	*	*
MAX/ MIN	*	*	*	*
REL (Zero) Function		*	*	*
Backlight/ Auto Backlight	*	*	*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
1.18" (30mm) Jaw opening	*	*	*	*
NCV Function	*	*	*	*
Live test			*	*

Specifications	Max Range	Basic Accuracy	333H	335	335H	336
Voltage DC	600V	±(0.5%+2d)	*	*	*	*
Voltage AC	600V	±(1.0%+5d)	*	*	*	*
Voltage VFD	600V				*	*
Current DC	400.0A	±(2.0%+5d)			*	*
Current AC	400.0A	±(2.5%+8d)	*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	*	*	*	*
Temperature	1000°C/ 1832°F	±(1.0%+3d)		*	*	*
Capacitance	100mF	±(2.5%+5d)		*	*	*
Frequency	ACV 100kHz	±(0.5%+2d)		*	*	*
Continuity check	Buzzer sounds at 50Ω					
Diode test	Test Current <0.5mA MAX 3V					

Size(HxWxD): 125mm x 65mm x 38mm

Weight: 284g

Accessories: Test leads, gift box with carrying case, Temperature probe and 1.5V AAA x 3 batteries



Model 333H



Model 335H



350H series clamp meters offer all the features you need to fit the way you work. The small bodies and jaws fit perfectly in your hand and into tight places. Slender housing design is good to measure by one hand. A large backlit display (on most models) is easy to see and a handy display hold keeps measurements on the display. Measuring starting current for motors, lighting, etc.

- Double molded plastic housing
- Auto Power Off



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

	350H	351H	352
Current measurement	AC	AC/DC	AC
LCD display counts	4000	4000	2000
AC True RMS	*	*	*
Data Hold	*	*	*
REL(Zero) Function	*	*	*
Auto Power Off	*	*	*
Low battery indication	*	*	*
1.2"(30mm) Jaw opening	*	*	*
NCV Detection	*	*	*

**Specifications**

Function	Max. Range	Max Resolution	Best Accuracy	350H	351H	352
Voltage DC	600V	100µV	±(0.5%+8d)	*	*	*
Voltage AC	600V	1mV	±(1.2%+3d)	*	*	*
Current DC	400A	10mA	±(2.5%+5d)	*	*	*
Current AC	400A	10mA	±(2.5%+5d)	*	*	1mA
Resistance	40MΩ		±(2.0%+3d)	*	*	20MΩ
Temperature	760°C/1400°F		±(1.5%+5d)	*	*	*
Capacitance	4mF		±(3.0%+5d)	*	*	*
Frequency	10kHz		±(1.2%+5d)	*	10kHz	*
Continuity check			Buzzer sounds at 50Ω			
Diode test			Test current 0.5mA			

**Size(HxWxD):** 198mm x 66mm x 36mm  
**Weight:** 230g

**Accessories:** Test leads, gift box with carrying case, temperature probe and Two "AAA" 1.5V batteries.



The 355 series clamp meters offer all needed features for measurement. It with small bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy display hold keeps measurements on the display.

True RMS



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Double molded plastic housing
- True RMS measurement for ACV & ACA
- Auto Power Off

**Features**

	355	356	356H	357	355W	356W
Current measurement	AC	AC/DC	AC/DC	AC/DC	AC	AC/DC
LCD display counts	6000	6000	6000	40000	6000	6000
AC True RMS	*	*	*	*	*	*
Display with backlight	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*
Max /Min	*	*	*	*	*	*
REL (Zero) Function	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*
Analog Bargraph / 61 seg.	*	*	*	*	*	*
1.57" (40mm) Jaw opening	*	*	*	*	*	*
NCV Detection	*	*	*	*	*	*
USB interface					*	*
Wireless transmitter					433MHz	915MHz
Receive sensitivity					-109dBm	
Communication distance					≤ 100m	

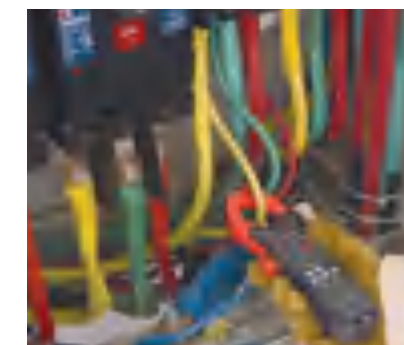
**Specifications**

Function	Max Range	Basic Accuracy	355/355W	356/356W	356H	357
Voltage DC	600V	±(0.5%+1d)	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*
Current DC	1000A	±(2.0%+5d)		*	*	*
Current AC	1000A	±(2.5%+4d)	*	*	*	*
Resistance	60MΩ	±(3.0%+5d)	*	*	*	*
Temperature	760°C/ 1400°F	±(3.0%+3d)	*	*	*	*
Capacitance	4000uF	±(2.5%+5d)	*	*	4mF	*
Frequency	10MHz	±(1.2%+2d)	*	10kHz	10kHz	10kHz
Inrush Current	600A	±(1.5%+2d)				
Continuity check			Buzzer sounds at 50Ω			
Diode test			Test current 0.3mA			

**Size(HxWxD):** 230mm x 76mm x 40mm

**Weight:** 315g

**Accessories:** Test leads, gift box with carrying case, temperature probe and 9V battery. USB cable and Software(355W/356W)



Model 356



Model 356H





Model 360



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

True RMS (363)



The 360 series clamp meters offer all needed features for measurement. It with small bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.

- Double molded plastic housing
- Inrush current function (366 only)
- Auto Power Off

Features	360	361	362	363
Current measurement	AC	AC	AC/DC	AC/DC
Max. Resolution	1mA	1mA	10mA	10mA
LCD display counts	2000	4000	4000	4000
AC True RMS				*
Display with backlight	*	*	*	*
Data Hold	*	*	*	*
Max Hold	*			
Zero Function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
Peak Current				*
1.2" (30mm) Jaw opening	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	360	361	362	363
Voltage DC	600V	±(0.5%+1d)		*	*	*	*
Voltage AC	600V	±(1.5%+2d)		*	*	*	*
Current DC	400A	±(2.0%+5d)				*	*
Current AC	400A	±(2.5%+4d)		*	*	*	*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	*	*	*	*
Temperature	1000°C/1832°F	±(3.0%+3d)		*	*	*	*
Capacitance	100uF	±(2.5%+5d)				*	40mF
Frequency	10MHz	±(1.2%+2d)				*	*
Continuity check		Buzzer sounds at 50Ω					
Diode test		Test current 0.3mA					

Size(HxWxD): 197mm x 70mm x 40mm  
Weight: 183g

Accessories: Test leads, gift box with carrying case, Temperature probe(361,362, 363, 366 only) and 9V battery.



Model 363



Model 362

370 clamp meter offers all needed features for measurement. It has small bodies and jaws design for perfectly handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.



Heavy Duty housing design

Drop-proof to 2M  
True RMS (370T)



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Features	370	370T
200A AC Current measurement	*	*
Digital display counts	4000	6000
Compact size	*	*
REL Function	*	*
Data Hold	*	*
Backlit Controls	*	*
Low battery indication	*	*
17mm Jaw opening	*	*
Auto sense Voltage		*
NCV	*	*
Low Z & True RMS		*

Specifications	Function	Max Range	Basic Accuracy	370	370T
Voltage DC	600V	±(1.5%+3d)		*	*
Voltage AC	600V	±(1.2%+3d) ±(0.9%+5d)		*	*
Current AC	200A	±(3.5%+5d)		*	*
Resistance	40MΩ	±(3.0%+5d)		*	60Meg
Temperature	760°C/ 1400°F 1000°C/ 1832°F	±(3.0%+3d)		*	*
Capacitance	100uF	±(2.5%+5d)		*	6000uF
Frequency	10MHz	±(1.2%+2d)		*	*
Low Z	>150K				*
Continuity check		Buzzer sounds at 50Ω			
Diode test		Test current 0.3mA			

Size(HxWxD): 230mm x 82mm x 40mm Weight: 230g  
Accessories: Test leads, gift box with carrying case, temperature probe and Two"AAA"1.5V batteries.



Model 370

**DT-380/381/382/383 Compact AC, AC/DC Autoranging Clamp Meters**

The 380 series clamp meters offer all the features you need to fit the way you work. The small bodies and jaws fit perfectly in your hand and into tight places.

Features	380	381	382	383
Current measurement	AC	AC	AC/DC	AC/DC
LCD display counts	2000	4000	2000	4000
Data Hold	*	*	*	*
REL (Zero) Function			*	*
Auto Power Off	*	*	*	*
Low battery indication	*	*	*	*
1.2" (30mm) Jaw opening	*	*	*	*
NCV Detection	*	*	*	*
Flashlight	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	380	381	382	383
Voltage DC	600V	±(0.5%+1d)		*	*	*	*
Voltage AC	600V	±(1.5%+2d)		*	*	*	*
Current DC	400A	±(2.0%+5d)				200A	*
Current AC	400A	±(2.5%+4d)		*	*	200A	*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	*	*	20MΩ	*
Temperature	1000°C/ 1832°F	±(3.0%+3d)		*	*	*	*
Capacitance	100uF	±(2.5%+5d)				*	*
Frequency	10MHz	±(1.2%+2d)			10kHz		10kHz
Continuity check		Buzzer sounds at 50Ω					
Diode test		Test current 0.3mA					

Size(HxWxD): 230mm x 82mm x 40mm Weight: 230g  
Accessories: Test leads, gift box with carrying case, temperature probe and Two"AAA"1.5V batteries.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 383



The FC-31/32/33 Series are designed to verify the presence of load current, Non-contact voltage and flashlight, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Non-Contact Voltage Detector

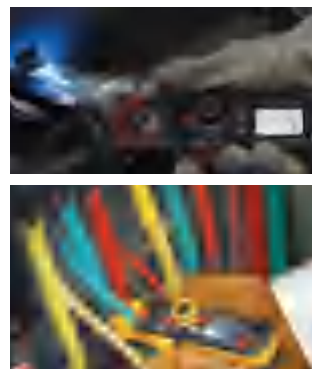
- Flashlight
- Digital Clamp Meter



Model FC-31



Model FC-33



Size(HxWxD): 178mm x 65mm x 32mm Weight: 170g  
Accessories: Test leads, clamshell with carrying case and Two "AAA" 1.5V batteries.

Features	31	32	33	35	36
True RMS					*
AC/DC Voltage, Resistance, Continuity, Diode check				*	*
Digital display counts	2000	2400	2400	2000	2000-9999
0.7" Jaw opening	*	*	*	*	*
Non-contact Voltage detector and Flashlight	*	*	*	*	*
AC Current		*	*	*	*
DC Current		*	*	*	*
Data Hold function	*	*	*	*	*
MAX/MIN function	MAX			MAX	*
DCA Zero function		*	*	*	*
Peak Hold function					*
Auto Power Off	*	*	*	*	*
Low battery indication	*	*	*	*	*
Backlight Display		*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	Max. Resolution	31	32	33	35	36
AC Current	2A	±(3.0%+8d)	1mA				*		
	20A	±(3.0%+8d)	10mA	*					
	80A	±(3.0%+8d)	100mA			*			
	200A	±(3.0%+8d)	100mA	*	*			*	*
DC Current	2A	±(2.8%+8d)	1mA				*		
	80A	±(2.8%+8d)	100mA				*		
Frequency	200A	±(3.0%+8d)	100mA		*				*
	40-51Hz	±(1.2%+5d)	0.01Hz		*				
	51-510Hz	±(1.2%+3d)	0.1Hz		*				
Voltage DC	0.51-1kHz	±(1.2%+3d)	0.001kHz		*				
	600V	±(0.5%+1d)						0.2-600V auto	600.0V
Voltage AC	600V	±(1.5%+2d)						0.2-600V auto	600.0V
	20MΩ	±(3.0%+5d)						0.2k-20MΩ auto	999.9Ω
Diode	Open circuit voltage 1.5V, Test current 0.3mA (FC-35 only)								
Continuity	Buzzer sounds at 100Ω (FC-35/36 only)								
Non-contact Voltage detection	: 100-600VAC								

**FC-21/22 Mini AC, AC/DC Clamp Meters**



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model FC-21



Model FC-22



Features	FC-21	FC-22
Current measurement	AC	AC/DC
Inrush current measurement		*
Data Hold	*	*
DC zero function		*
Backlit LCD display	*	*
Non-contact AC voltage detection	*	*
Auto Power OFF	*	*

Specifications	Function	Max Range	Resolution	Basic Accuracy	FC-21	FC-22
AC Current	40.00A AC	0.01A	±(3.5% + 10d)	*	*	
	50/60 Hz True RMS	400.0A AC	0.1A	±(2.8% + 8d)	*	*
AC Current	400.0A AC	0.01A	±(2.8% + 10d)	*	*	
	400 Hz True RMS	400.0A AC	0.1A	±(2.8% + 8d)	*	*
DC Current	40.00A DC	0.01A	±(2.5% + 10d)	*	*	
	400.0A DC	0.1A	±(2.8% + 8d)	*	*	

Size(HxWxD):153mm x 57mm x27mm Weight: 138g  
Accessories: clamshell & 2 x "AAA" batteries

The 371 series clamp meters offer all needed features for measurement. It is with small bodies and jaws design for perfect handhold and tight place testing. A large backlit display (on most models) is easy to see and a handy Display Hold keeps measurements on the display.

- Double molded plastic housing
- Auto Power Off



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



True RMS (375/375BT)

1.2" (30mm) Jaw opening



Model 371

Features	371	371B	371BL	372	373	375	375BT
Current measurement	AC	AC	AC	AC	AC/DC	AC/DC	AC/DC
Max. Resolution	1mA	1mA	1mA	1mA	10mA	10mA	10mA
LCD display counts	2000	2000	2000	4000	4000	4000	6000
AC True RMS	*	*	*	*	*	*	*
Display with backlight	*	*	*	*	*	*	*
Data Hold	*	*	*	*	*	*	*
Max Hold	*	*	*	*	*	*	*
Zero Function					*	*	*
Auto Power Off	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*
Bluetooth							*
1.2" (30mm) Jaw opening	*	*	*	*	*	*	*

Specifications	Function	Max Range	Basic Accuracy	371	371B	371BL	372	373	375	375BT
Voltage DC	600V	±(0.5%+1d)		*	*	*	*	*	*	*
Voltage AC	600V	±(1.5%+2d)		*	*	*	*	*	*	*
Current DC	400A	±(2.0%+5d)		*	*	*	*	*	*	*
Current AC	400A	±(2.5%+4d)		*	*	*	*	*	*	*
Flexible A	3000A	±(3.0%+5d)								*
Resistance	40MΩ	±(3.0%+5d)	20MΩ	20MΩ	20MΩ	*	*	*	*	60MΩ
Temperature	1000°C/1832°F	±(3.0%+3d)		*					*	*
Capacitance	100μF	±(2.5%+5d)					*	*	4000μF	6000μF
Frequency	10MHz	±(1.2%+2d)					*	*	*	*
Continuity check	Buzzer sounds at 50Ω			*	*	*	30Ω	30Ω	*	*
Diode test	Test current 0.3mA			*	*	*	*	*	*	*

Size(HxWxD): 197mm x 70mm x 40mm Weight: 183g  
Accessories: Test leads, gift box with carrying case, temperature probe(371B, 375, 375BT, 376 only), 1.5Vx2 "AAA" batteries.



Model 373



Model 375BT





The 339 is new designed to verify the presence of load current, voltage and resistance, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

Test lead mA range with high 1mA resolution for HVAC and Process control applications

Data Hold freeze the displayed value

Auto Power Off

High Resolution



Model 337



Features	337	339
Small jaw size	0.5"	0.7"
1mA high resolution	*	*
True RMS AC clamp-on multimeter		*
Type K Temperature function		*
Digital clamp meter for AC/DC current measurement	*	*
Providing wide measuring range from very small to large current	*	*
Designed to safety standard IEC 61010-2-032: CAT III 600V and pollution degree 2.	*	*
Display counts	4000	5000
Auto power off & Data hold function	*	*
Peak hold ,Max/Min hold and Relative functions		Max/Min
Advanced functions include Capacitance, Frequency		*
Flashlight		*

Specifications	Max. Range	Max. Resolution	Basic Accuracy	337	339
Current AC	80A	1mA	±(2.5%+5d)	*	*
Current DC	80A	1mA	±(2.5%+4d)	*	*
Voltage AC	400mV~600V	0.1mV	±(2.0%+4d)	*	*
Voltage DC	400mV~600V	0.1mV	±(1.5%+3d)	*	*
Resistance	400Ω~40MΩ	0.1Ω	±(1.5%+2d)	*	*
Frequency	5Hz~10MHz	0.001Hz	±(1.2%+3d)	*	*
% Duty	5%~99.9%	0.1%	±(1.2%+3d)	*	*
Capacitance	40mF	0.001nF	±(3.5%+10d)	100uF	500.0uF
Temperature	-20°C~+760°C	0.1 °C	±(2.0%+3°C)	*	*
	-4 °F~+1400 °F	0.1 °F	±(2.0%+ 3°F)	*	*
Diode Check	Test current of 0.3mA, Open circuit voltage 3.0V(338)			*	*
Continuity Check	Threshold 50Ω			*	*

Size(HxWxD): 210mm x 70mmx 37mm

Weight: 200g

Accessories:

Test leads, Gift box with carrying case, 9V battery.



Model 339



EMC & LVD  
 EN: 61326  
 EN: 61010-1  
 EN: 61010-02-032  
 EN: 61010-02-033

The 330H series are designed to verify the presence of load current, voltage and resistance, etc. The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

### Features

	330H	332/332T	333/333T	335	336
Max. Resolution to	AC	AC/DC	AC/DC	AC	AC/DC
Current measurement	1mA	10mA	10mA	0.1uA	0.1uA
LCD display counts	2000	4000	4000	4000	4000
AC True RMS	*	332T	333T		
Display with backlight	*	*	*	*	*
Data Hold	*	*	*	*	*
Max Hold	*				
Zero Function		*	*	*	*
0.9" (23mm) Jaw size	*	*	*	*	*

### Specifications

Function	Max Range	Basic Accuracy	330H	332	333	335	336
Voltage DC	600V	±(0.5%+1d)	*	*	*	*	*
Voltage AC	600V	±(1.5%+2d)	*	*	*	*	*
Current DC	400A	±(2.5%+5d)		*	*	*	*
Current AC	400A	±(3.0%+4d)	*	*	*	*	*
Resistance	20MΩ	±(3.0%+5d)	*	40MΩ	40MΩ	40MΩ	40MΩ
Temperature	1000°C/1832°F	±(3.0%+3d)			*	*	*
Capacitance	100uF	±(2.5%+5d)		*	*	*	*
Frequency	150KHz	±(1.2%+2d)		*	*	*	*
	10MHz						
Continuity	Buzzer sounds at 100Ω		50Ω	*	*	*	*
Diode	Test current 0.3mA; Open circuit voltage 1.5V		*	*	*	*	*

Size(HxWxD): 205mm x 70mm x 37mm Weight: 200g

Accessories: Test leads, gift box with carrying case, temperature probe (333, 335 only) and Two "AAA" 1.5V batteries.

### DT-9809 AC Leakage Current Tester

AC leakage current tester 9809 is a multifunction clamp meter with very good resolution of 10uA. It is very useful for power system to check and installation. With the measuring range up to 100A, this tester is great for appliance installation or for car applications

- 10uA high resolution
- Large 3 3/4 (4000 counts) LCD display
- Auto Power Off
- Shielded transformer jaw opens to 1.2"
- Max/Min, Data Hold, Low battery indication
- Overload protection



EMC & LVD  
 EN: 61326  
 EN: 61010-1  
 EN: 61010-02-032  
 EN: 61010-02-033



### Specifications

Function	Range	Resolution	Basic Accuracy
Current AC	40mA~100A	10uA~100mA	±(2.0%+3d)
Voltage AC	400V	0.1V	±(1.5%+10d)
Resistance	40~400Ω	0.1Ω	±(1.0%+2d)
Continuity Test	Threshold 40Ω, Continuity Beeper 2.5KHz		

1.2" (30mm) Clamp jaw opening

Size(HxWxD): 209mm x 43mm x 30mm

Weight: 200g

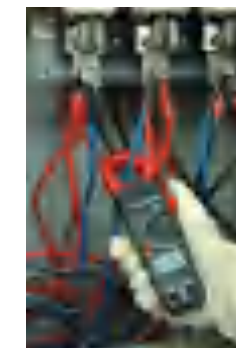
Accessories: Test leads, holster, gift box with carrying case, 9V battery



Model 330H



EMC & LVD  
 EN: 61326  
 EN: 61010-1  
 EN: 61010-02-032  
 EN: 61010-02-033





1000A AC, AC/DC Clamp Meter

1.2" (30mm) Clamp jaw opening

3340 Series Clamp Meters provide accurate AC, AC/DC Current and Voltage readings regardless of waveforms. These meters can be used in most industrial and commercial applications where non-linear loads distort the Current or Voltage waveform.

- Electronic overload protection
- Data Hold function
- DCA Zero function
- Low battery indication
- Auto Power Off



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 3341

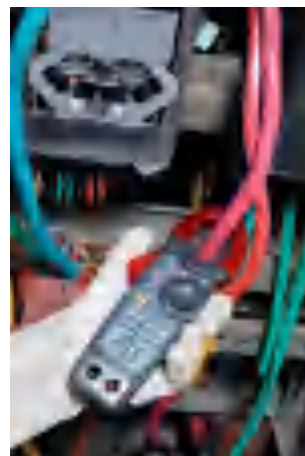
Features	3340	3341	3343
Digital display counts	2000	4000	4000
AC/DC Current	AC	AC	AC/DC
1.2" (30mm) Clamp jaw opening	*	*	*
Electronic overload protection	*	*	*
Continuity buzzer & Diode check	*	*	*
Data Hold function	*	*	*
DCA Zero function			*
MAX Hold function	*		
Auto Power Off	*	*	*
Low battery indication	*	*	*

Specifications	Max Range	Basic Accuracy	Max. Resolution	3340	3341	3343
AC Current	1000 A	±(2.5%+5d)	10mA	*	*	*
DC Current	1000 A	±(3.0%+4d)	10mA			*
AC Voltage	600V	±(0.8%+2d)	0.1mV	*	*	*
DC Voltage	600V	±(1.0%+4d)	0.1mV	*	*	*
Resistance	40MΩ	±(1.0%+4d)	0.1Ω	20M	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF		100μF	100μF
Frequency	10MHz	±(1.2%+3d)	0.01MHz		*	100kHz
Duty Cycle	99.9%	±(1.2%+3d)	0.1%		*	*
Temperature	1000°C 1832°F	±(3.0%+5d)	1°C/°F		*	*

Size(HxWxD): 229mm x 80mm x 49mm

Weight: 303g

Accessories: Test leads, gift box with carrying case, 9V battery; two "AAA" batteries(3340) and temperature probe (3341/3343)



Model 3311

Model 3312

Model 3315



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



3309 Series Professional 1000A/2000A AC, AC/DC Clamp Meters provide many functions for professional AC current and voltage measurements including resistance, capacitance and diode test, etc. With mid-size and tear-drop shaped jaw, it is easy to use in crowded cable areas and other tight places.

Features	3309	3310	3311	3312	3313	3315	3316
Current measurements	AC	AC	AC	AC	AC/DC	AC/DC	AC/DC
True RMS measurements	*	*	*	*	*	*	*
Digital display counts	2000	4000	4000	4000	4000	4000	4000
Electronic overload protection	*	*	*	*	*	*	*
Continuity buzzer & Diode check	*	*	*	*	*	*	*
Data Hold function	*	*	*	*	*	*	*
Peak Hold							*
MAX/MIN	*						
DCA Zero function					*	*	*
Auto Power Off	*	*	*	*	*	*	*
Low battery indication	*	*	*	*	*	*	*
Display with backlight	*	*	*	*	*	*	*
2.16" (55mm) Clamp jaw opening	*	*	*	*	*	*	*

Specifications	Max Range	Basic Accuracy	Max. Resolution	3309	3310	3311	3312	3313	3315	3316
AC Current	2000A	±(2.5%+5d)	100mA 10mA	600A	1000 A	1000 A	*	*	*	*
DC Current	2000A	±(2.5%+5d)	100mA						*	*
AC Voltage	1000V	±(1.0%+4d)	0.1mV	750V	*	*	*	*	*	*
DC Voltage	1000V	±(0.5%+4d)	0.1mV	*	*	*	*	*	*	*
Resistance	40MΩ	±(1.0%+2d)	0.1Ω	20MΩ	*	*	*	*	*	*
Frequency	10MHz	±(1.2%+2d)	0.001Hz		*	*	*	*	*	*
Capacitance	40mF	±(3.0%+5d)	0.01nF		*	*				

Size(HxWxD): 270mm x 107mm x 50mm Weight: 554g  
Accessories: Test leads, gift box with carrying case, 9V battery.





CP-03C AC/DC Clamp-on adaptor with bluetooth interface

CP-03A/CP-03B High Resolution AC, AC/DC Clamp-on Adaptors. Providing non-invasive Current measurements to 4A with resolution to 1mA for AC, DC/AC Current. The adaptors are perfect for low current automotive, industrial control or appliance repair. CP-03C AC/DC Clamp-on adaptor with bluetooth interface.

Specifications						
Function	Range	Output	Sensitivity	Basic Accuracy	CP-03A	CP-03B/03C
Current	4A	100mV/A	0.01A/mV AC	±(2.5%+0.06A)	AC	
	40A	10mV/A	0.1A/mV DC/AC	±(2.5%+0.03A)	AC	DC/AC
	400A	1mV/A	1A/mV DC/AC	±(2.8%+0.03A)	AC	DC/AC
Clamp jaw opening					1.2" (30mm)	
Non-contact voltage detector					50-600VAC	



EMC & LVD  
EN: 50081-1, 50082-1  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Size(HxWxD): 150mm x 58mm x 35mm  
Weight: 205g  
Accessories:  
Test leads, 9V battery and clamshell

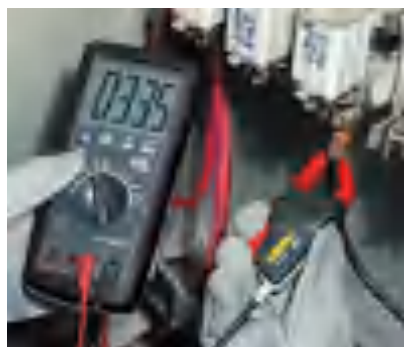
CP-09 Smaller sized , convenient-to-use AC current clamp-on Adaptor

CP-09 is the ideal tool to extend the current ranges for all Multimeters. The CP-09 is a 200A AC current clamp-on Adaptor with voltage output via a standard banana inputs to be connected to multimeters.

Specifications				
Function	Range	Output	Sensitivity	Basic Accuracy
Current AC	200A	1mV/A	1A/mV AC	±2%
0.7" (18mm) Clamp jaw opening				

Size(HxWxD): 80mm x 66mm x 31mm  
Weight: 80g

Accessories:  
Test leads and clamshell



EMC & LVD  
EN: 50081-1, 50082-1  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model CP-09



Model CP-1000

Model CP-12



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The CP-12/1000 are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- CP-12 AC Clamp-on Adaptor provides non-invasive Current measurements to 10A with resolution to 10mA for AC Current.
- CP-1000 is an AC/DC Clamp-on Adaptor.

Specifications						
Function	Range	Output	Sensitivity	Basic Accuracy	CP-12	CP-1000
Current ACA/DCA	10A	1mV/100mA	0.1A/mV DC	±(3.0%+0.06A)	AC	
	100A	1mV/A	1A/mV DC	±(3.5%+0.03A)	AC	
	600A	0.1mV/A	10A/mV DC	±(3.0%+0.03A)		AC/DC
	1000A	0.1mV/A	10A/mV DC	±(3.0%+0.03A)	AC	AC/DC
Clamp jaw opening: 1.2" (30mm)						

Size(HxWxD): 229mm x 80mm x 49mm  
Weight: 303g

Accessories:  
Test leads, gift box with carrying case and 9V battery.

CP-10/11 High Resolution Mini AC/DC Clamp-on Adaptors

The CP-10/11 are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- 0.5" (12.5mm) Clamp jaw opening (CP-10)
- 0.9" (23mm) Clamp jaw opening (CP-11)



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Specifications						
Function	Range	Output	Sensitivity	Basic Accuracy	CP-10	CP-11
Current	2A	100mV/A	0.01A/mV AC/DC	±3.5%	*	
	AC/DC	80A	10mV/A	1A/mV AC/DC	±3.5%	*
	40A	10mV/A	0.1A/mV AC/DC	±3.5%		*
	400A	1mV/A	1A/mV AC/DC	±3.5%		*

Size(HxWxD): 190mm x 70mm x 40mm  
Weight: 200g

Accessories:  
Test leads, gift box with carrying case and 9V battery.



Model CP-10

Model CP-11

AC-008/008S Line Splitter

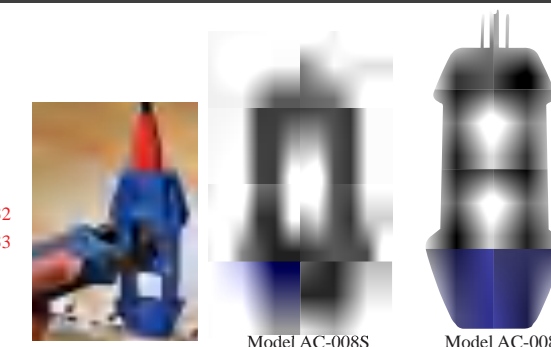
Measuring AC current on a 2-wire or 3-wire power cord to 15A. Providing easy and safe measurements of current without the need to separate the conductors. Plugging the power connector into the line splitter separates the hot/live conductor from the neutral. Features voltage check function.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Size(HxWxD): 210mm x 48mm x 38mm  
Weight: 230g

Accessories: gift box with carrying case.



Model AC-008S

Model AC-008

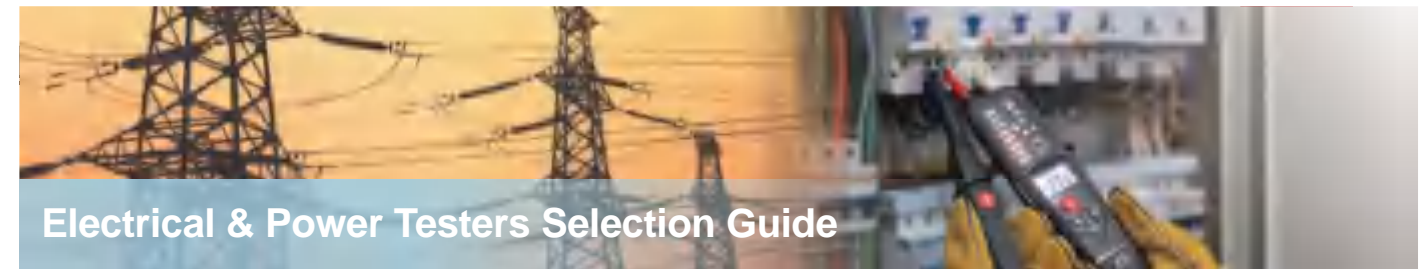


# Professional Electrical & Power Testers



CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



## Electrical & Power Testers Selection Guide



### Multifunction Installation Tester

DT-6650 rugged Multifunction Installation Tester with 3.5" TFT color LCD display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFG and PSC testing. It is designed for software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. 6650 series can ensure the fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.



### Three-phase Power Quality Analyzer with InfraRed Thermal Imager

7760 Three-phase Power Quality and Energy Analyzer with InfraRed Thermal Imager offers the best power quality analysis and the ability to monetarily quantify energy losses. It can measure voltage, current, frequency, power, power energy flicker, harmonics and inter-harmonics etc. 7760 helps locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems.



### 3in1 Professional Insulation Tester with Thermal Imager

DT-6509 Professional Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.

Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.



### Electrical Tester

DT-9331 Two-pole Voltage and Continuity Tester provides you fast and accurate test results you need. It is with large, easy-to-use buttons, bright backlight and clear audible and physical indicator designed which can provide convenient measurement. Enhanced ergonomic design is easy to use (even with gloves on).



### Non-Contact AC Voltage Detectors

The Non-contact AC Voltage Testers are easy to use — just touch the tip to a terminal strip, outlet, or supply cord. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel, and homeowners can quickly test for energized circuits in the workplace or at home.



Three-phase Power Quality Analyzer with InfraRed Thermal Imager



CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Model 7760

Model 7761

WiFi



CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Thermal Imager Specifications (Only 7761)

IR resolution	120x90 pixels
Field of View (FOV)	50° x 38°
Thermal sensitivity/NETD	< 0.06°C /60mK
Image frequency	30Hz
Object temperature range	-20 to 400°C (-4 to 752°F)
Spectral range	8-14 μm
Color palettes	Iron/Rainbow/Grey/Grey Inverted
Accuracy	±2°C (±3.6°F) or ±2% of reading

Three-phase Power Quality and Energy Analyzer Specifications (7760/7761)

	Range	Resolution	Accuracy
<b>Volt</b>			
Vrms (AC+DC)	1V to 1000V phase to neutral	0.1V	± 0.5% of nominal voltage
Vpk	1Vpk to 1400 Vpk	1V	5% of nominal voltage
Voltage Crest Factor (CF)	1.0 > 2.8	0.01	±5 %
<b>Amps (accuracy excluding clamp accuracy)</b>			
Amps (AC +DC)	0.5A to 6000A	0.1A	± 0.5% ± 5counts
Apk	8400 Apk	1 Arms	± 5%
A Crest Factor (CF)	1 to 10	0.01	± 5%
<b>Hz</b>			
Hz	42.500 Hz to 460 Hz	0.001 Hz	± 0.01Hz
Watts (VA, var)	max 6000 MW,	0.1W to 1MW	± 1% ± 10counts
Power factor	0 to 1	0.001	± 0.1% @ nominal load conditions
<b>Harmonics</b>			
Harmonic order (n)	DC, 1 to 50 Grouping: Harmonic groups according to IEC 61000-4-7		
Inter-harmonic order (n)	OFF, 1 to 50 Grouping: Harmonic and Interharmonic subgroups according to IEC 61000-4-7		
Volts	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 1000 V (Absolute)	0.1V	± 5%
Amps	0.0 % to 100 % (%f)	0.1%	± 0.1% ± n x 0.1%
	0.0 to 600A (Absolute)	0.1A	± 5% ± 5counts
Watts	0.0 % to 100 % (%f or %r)	0.1%	± n x 2%
Phase Angle	Depends on clamp scaling and V nominal (Absolute)	± 5% ± n x 2% ± 10counts	
Phase Angle	-360° to +0°	1°	± n x 1°
<b>Flicker</b>			
Plt, Pst, Pst(1min) Pinst	0.00 to 20.00	0.01	± 5%
<b>Unbalance</b>			
Volts	0.0% to 20.0%	0.1%	± 0.1%
Amps	0.0% to 20.0%	0.1%	± 1%
Inrush mode	Arms(AC+DC)		
Memory	Screens & data		

7760/7761 Three-phase Power Quality and Energy Analyzer offers the best power quality analysis and the ability to monetarily quantify energy losses. It can measure voltage, current, frequency, power, power energy flicker, harmonics and inter-harmonics etc. 7760/7761 helps locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems. 7761 Is three-phase Power Quality and Energy Analyzer with InfraRed Thermal Imager.

Features:

- Built-in Thermal Imager design quickly identifies hot spots without contact (7761)
- 120x90 Infrared resolution
- Bluetooth BLE instant share function & WiFi
- Power inverter efficiency
- Power wave data capture
- Waveform capture
- Automatic transient mode
- Fully Class-A compliant
- Mains signaling
- 50/60Hz measurement
- Troubleshoot
- Highest safety rating in the industry
- Measure all three phases and neutral
- Automatic trending
- System-Monitor
- Logger function
- View graphs and generate reports

Size(HxWxD): 240mm x 160mm x 100mm  
Weight: 1.2kg

Accessories :

ACA current clamp sensor, USB cable, Software and gift box.

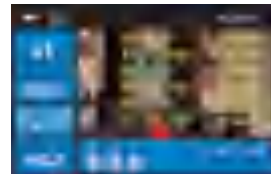
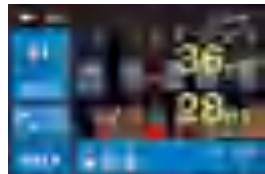
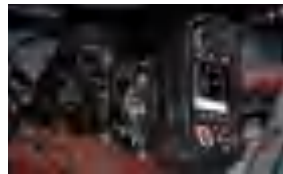


# Multifunction Installation Tester

6650/6651/6652 rugged Multifunction Installation Tester with 3.5" TFT color LCD display, provides insulation resistance, earth resistance, loop impedance, voltage, RCD, PFG and PSC testing. It is designed for software system and ensure the safety of electrical installations in domestic, commercial and industrial applications. 6650 series can ensure the fixed wiring is safe and correctly installed. It's fast sampling and dual display, clear symbols and exceptionally wide viewing angle are for easy and safe readings.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



## Features

	6650	6651	6652
3-Phase quality power analyzer			*
3.5" TFT color LCD display with 320x240 pixels	*	*	*
Fast high current loop test	*	*	*
Variable RCD current mode for customized settings	*	*	*
PASS/FAIL indication for RCD tests	*	*	*
Select voltage measurement between L-N, L-PE and N-PE	*	*	*
Support SD memory and USB and Bluetooth interface	*	*	*
Internal memory	*	*	*
Safe Earth Volt Touchpad detects raised earth voltages >50 V, indicating potential dangerous situations.	*	*	*
Slim probes designed with test button	*	*	*
For easy, always reliable and accurate compensation of test leads and mains cords.	*	*	*
Bluetooth interface	*	*	*



EMC & LVD  
EN: 61326  
EN: 61010-1  
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EN: 61010-02-033



Model 6651



Model 6650



Model 6652



## Specifications (6650/6651/6652)

Terminal Voltage	Range	Max Resolution	Accuracy	Test Current	Short circuit current
125V (0% ~ +10)	0.125~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 125kΩ	≤1mA
250V (0% ~ +10)	0.250~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 250kΩ	≤1mA
500V (0% ~ +10)	0.500~4000MΩ	0.001MΩ	±(2%+10)	1mA@load 500kΩ	≤1mA
1000V (0% ~ +10)	1.000~4000MΩ	0.001MΩ	±(3%+10)	1mA@load 1MΩ	≤1mA

Range	Resolution	Accuracy	Max.open Circuit Voltage	Overload Protection
4.000Ω	0.001Ω	±(1.5%+30)	5.8V	250Vrms
40.00Ω	0.01Ω	±(1.5%+3)		
400.0Ω	0.1Ω	±(1.5%+3)		

Range	Resolution	Operation Resistance	Max.open Circuit Voltage	Overload Protection
Continuity	0.01Ω	Resistance≤35Ω	5.0V ±1VDC	250Vrms
Short circuit current	≥200mA			

Range (Ω)	Max. Resolution (Ω)	Accuracy
0.00~999	0.01	±(4% of reading+6 digits)

L-PE (Hi-Amp)  
L-PE(No Trip): Measuring Current:15mA / Range of the Voltage Used:195V a.c.~260V a.c.(50,60Hz)

Range (Ω)	Resolution (Ω)	Accuracy
0.00~999	0.01	±(5% of reading+6 digits)

L-N: Measuring Current:2.0A / Range of the Voltage Used:195V a.c.~260V a.c.(56,60Hz)

Range (Ω)	Max. Resolution (Ω)	Accuracy
0.00~999	0.01	±(4% of reading+4 digits)

Test current	Accuracy
x1/2, x1, x2, x5	1.5% ~ -9%

Measurement Range (V) / AC-DC	Resolution	Accuracy
80-500V/(45-400Hz)	1V	±(2% of reading+2 digits)

Power (P, S, Q)	0.00 W (VA, Var) ÷ 99.9 kW (kVA, kVar)
Power factor	-1.00 ÷ 1.00
Voltage harmonics	0.1 V ÷ 500 V
Voltage THD / Current THD	0.1 % ÷ 99.9 %
Current harmonics	0.00 A ÷ 199.9 A

Size(HxWxD): 220mm x 96.5mm x 60.5mm

Weight: 631g

Accessories: Test leads, 8 x 1.5V“AA” batteries, USB cable and Software, gift box with carrying case.



The Insulation Multimeter combines a digital insulation tester with a full-featured, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

- Wide range measurements from 125V to 1000V and up to 1000MΩ.
- Large 4000 counts digital display with bargraph and backlight.
- MAX/MIN, PEAK, Relative value & Data hold functions for DC/AC voltage measurements
- Polarization index measurement(PI).
- Auto ranging & Timer measurement function.
- Indication of output voltage and discharge voltage.
- Voltage output warning function.
- Auto power off and battery check.
- Safety standard IEC61010-1 CAT IV 600V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Specifications**

Function	Insulation resistance				Voltage		Resistance
	125V	250V	500V	1000V	AC/DCV	AC/DCmV	5VDC Output
Range	125V	250V	500V	1000V	0-600.0V (50-1kHz)	0-500.00mV (50-1kHz)	0-20.00Ω 20.0-200.0Ω 200-2000Ω
Measuring range (Auto ranging)	0.125-1000MΩ	0.250-1000MΩ	0.500-1000MΩ	1.000-1000MΩ			
Accuracy	±3%rdg ±2dgt				±1.5%rdg ±5dgt		±1.5%rdg ±3dgt
Short Circuit Current	1mA approx						
Rated test Current (at load Resistance)	1mA@ load 125kΩ	1mA@ load 250kΩ	1mA@ load 500kΩ	1mA@ load 1MΩ			
Open circuit voltage	125VDC/+10%-0%	250VDC/+10%-0%	500VDC/+10%-0%	1000VDC/+10%-0%			
Continuity check	Buzzer sounds at 50Ω						
Display	4000 Counts						
Current consumption	About 30mA						
Safety standard	IEC 61010-1 CAT IV 600V Pollution Degree 2						
Power supply	DC12V : 8 x1.5V“AA” batteries						
Accessories	Test leads, Instruction Manual and 120V/250V AC adaptor						

**Size(HxWxD):** 220mm x 96.5mm x 60.5mm **Weight:** 631g **Accessories:**Test leads, 8 x1.5V“AA” batteries, gift box with carrying case.

**DT-6611 LOOP/PSC Tester**



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Specifications**

Measurement specifications	Range	Resolution	Accuracy
Loop Impedance	0.05...1999Ω	0.01...1Ω	±(5%rdg,+5Digits)
Resistance neutral connector	0.05...19.99Ω	0.01Ω	±(5%rdg,+5Digits)
Resistance phase connector	0.05...19.99Ω	0.01Ω	±(5%rdg,+5Digits)
Resistance earth connector	0.05...1999Ω	0.01...1Ω	±(5%rdg,+5Digits)
Prospective short circuit current	0...20KA	1A	10A
Voltage	0...440V	1V	±(3%rdg,+3Digits)
Mains frequency	10...200Hz	0.1Hz	±(1%rdg,+3Digits)
Contact voltage	25V/50V(selectable)		

**DT-6612 RCD Tester**



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Specifications**

	Range	Resolution	Accuracy
Nominal test current	10/30/100/500mA/1A		(-0%+10%)+6Digits
Current selection	0.5 x, 1x, 5 x nominal current		
Trip time	2000 ms at 0.5 x, 1x 50 ms at 5x	1ms	±(2%rdg,+2Digits)
Ramp test	0.4 x to 1.4 times		10 %
Mains voltage	230V	1V	+10%/-10%

The Insulation Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

**Features**

	9985	9985B/9985RF	9986
Save both time and money with Automatic calculation of Polarization Index and Dielectric Absorption Ratio			*
Slim probes designed with test button		9985B	
200 mA Continuity			*
Compare function (pass/fail) for fast repetitive tests			*
Insulation test voltages 125V, 250V, 500V, 1000V	*	*	*
Insulation test: 0.001MΩ to 4000MΩ	*	*	*
Auto discharge of capacitive voltage	*	*	*
Insulation test smoothing reading	*	*	*
Min/Max function	*	*	*
K-type thermocouple	*	*	*
Rugged, utility hard case	*	*	*
Auto power off to save battery power	*	*	*
True-RMS	*	*	*
Large LCD display with backlight	*	*	*
CAT III 1000V, CAT IV 600V measurement category	*	*	*
IP67 Waterproof and Auto Power Off	*	*	*
Wireless USB interface	*	*	*



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9985B

**Specifications (9985/9985B/9985RF/9986)**

Multimeter				Insulation					
Function	Max Range	Resolution	Basic Accuracy	Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
DC Voltage	1000V	0.1V	±(0.06% reading + 4digits)	125V(0% ~10%)	0.125-4.000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ	≤1mA
AC Voltage	1000V	0.1V	±(1.0% reading + 30 digits)		4.001-40.00MΩ	0.01MΩ	±(2%+10)		
DC Current	10A	0.001A	±(1.0% reading + 3 digits)		40.01-400.0MΩ	0.1MΩ	±(4%+5)		
AC Current	10A	0.001A	±(1.5% reading + 30digits)	250V(0% ~10%)	400.1-4000MΩ	1MΩ	±(5%+5)	1mA @load250kΩ	≤1mA
Resistance	40MΩ	0.0001MΩ	±(0.3% reading + 4 digits)		0.250-4.000MΩ	0.001MΩ	±(2%+10)		
Frequency	40MHz	0.01MHz	±(0.1% reading + 1 digits)		4.001-40.00MΩ	0.01MΩ	±(2%+10)		
Duty Cycle	0.1 to 99.90%	0.01%	±(1.2% reading + 2 digits)	500V(0% ~10%)	40.01-400.0MΩ	0.1MΩ	±(3%+5)	1mA @load150kΩ	≤1mA
Temperature	-50 to 1200°C	0.1°C	±(1.0% reading + 2.5°C)		400.1-4000MΩ	1MΩ	±(4%+5)		
	-58 to 2192°F	0.1°F	±(1.0% reading + 4.5°F)		4.001-40.00MΩ	0.01MΩ	±(2%+10)		
4-20mA%	-25 to 125%	0.01%	±50 digits	1000V(0% ~0%)	1.000-4.000MΩ	0.001MΩ	±(3%+10)	1mA @load1MΩ	≤1mA
					4.001-40.00MΩ	0.01MΩ	±(2%+10)		
					40.01-400.0MΩ	0.1MΩ	±(2%+5)		
					400.1-4000MΩ	1MΩ	±(4%+5)		

**Size(HxWxD):** 220mm x 96.5mm x 60.5mm

**Weight:** 631g

**Accessories:**

Test leads, 6x1.5V“AAA” batteries, Type K temperature probe, USB cable and Software(9985RF/9986), gift box with carrying case.



Model 9985RF



# Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter

- Insulation Tester
- High Resolution Micro-ohm Meter
- True RMS InfraRed Thermal Image Multimeter
- Built-in Thermal Imager design quickly identifies hot spots without contact

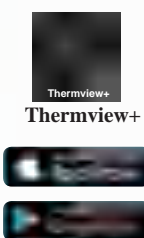
- Safety Conformance**
- EN61010-1 CAT IV 600V, CAT III 1000V
  - 1000V input protection on all ranges



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model DT-320BS  
3000A AC Flexible clamp (optional)



6509 Professional Insulation Tester & High Resolution Micro-ohm Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.

Thermview+ software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.

- TFT color LCD display
- PC Calibration

- Insulation Tester
- High Resolution Micro-ohm Meter
- True RMS InfraRed Thermal Image Multimeter

## Features

- Built-in Thermal Imager design quickly identifies hot spots without contact
- Large 240 x 320 3.5" TFT color 6000 counts LCD display
- Insulation test voltages 125V, 250V, 500V, 1000V
- Insulation test: 0.001MΩ to 60.00GΩ
- Polarization index measurement (PI).
- 1 μΩ High resolution micro-ohm meter
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- AC, AC+DC true-RMS measurements & 1kHz ACV, ACA bandwidth
- 3000A Flexible Coil Current Measurements (Optional)
- A/D convert fast sampling time: 10 Times/sec.
- Peak capture (records transients as fast as 500μs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- MicroSD memory card
- Support capture screen capabilities
- Bluetooth BLE instant share function
- Easy to view and analyze images quickly

## Specifications

Thermal Imager	
IR resolution	80x80 pixels
Field of View (FOV)	21° x 21°
Thermal sensitivity/NETD	< 0.1°C@ +30°C(+86°F)/100mK
Image frequency	50Hz
Object temperature range	range: -20 to 260°C (-4 to 500°F)
Focus mode/ Focal length	Focus free/ 7.5mm
Spectral range	8-14 μm
Color palettes	IRON/Rainbow/Grey/Grey Inverted
Accuracy	±3°C (±5.4°F) or ±3% of reading (Environment temperature 10°C-35°C, object temperature >0°C. )

True RMS Multimeter Functions			
Function	Max. Range	Max. resolution	Best Accuracy
Voltage DC	1000V	100mV	±(0.09% + 5)
Voltage AC	1000V	100mV	±(0.8% + 5)
Current DC	10A	0.1μA	±(0.9% + 5)
Current AC	10A	0.1μA	±(1.2% + 5)
Resistance	60MΩ	0.1Ω	±(0.5% + 5)
Capacitance	6000μF	0.01nF	±(1.2% + 8)
Frequency (electrical)	10kHz	0.01Hz	±(0.09% + 5)
Diode and Continuity	Yes		
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger		

Insulation Tester			
Terminal Voltage	Range	Max. Resolution	Accuracy
125V(0% ~10%)	0.125~60.00GΩ	0.001MΩ	±(2%+10)
250V(0% ~10%)	0.250~60.00GΩ		±(2%+10)
500V(0% ~10%)	0.500~60.00GΩ		±(2%+10)
1000V(0% ~0%)	1.000~60.00GΩ		±(3%+10)

Micro-ohm Meter			
Resistance	Max. Range	Max. Resolution	Accuracy
	60mΩ	1μΩ	±(0.25% + 25μΩ)
	600mΩ	10μΩ	±(0.25% + 250μΩ)
	6Ω	100μΩ	±(0.25% + 2.5mΩ)
	60Ω	1mΩ	±(0.25% + 25mΩ)



Model 6509



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Size(HxWxD):** 97mm x 210mm x 68mm **Weight:** 634g  
**Accessories:** Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



6508B Professional Insulation Tester & High Resolution Meter with True RMS InfraRed Thermal Image Multimeter design, providing fast A/D converting sampling time, high accuracy, with datalogging features. advanced system Platform permits smart multifunctions such as updating software on line, PC calibration etc.



**Features**

- Large 240 x 320 3.5" RGB color 6000 counts LCD display
- Insulation test voltages 125V, 250V, 500V, 1000V
- Insulation test: 0.001MΩ to 6000MΩ
- PI/DAR timed ratio tests
- Logging function with Trend Capture for easy review of logged data
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- AC, AC+DC true-RMS measurements & 1kHz ACV, ACA bandwidth
- 3000A Flexible Coil Current Measurements (Optional)
- Peak capture (records transients as fast as 500μs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- High voltage and overload indication
- Lock power on function for hands-free operation
- K-type thermocouple
- Auto discharge of voltage test signal
- Support capture screen capabilities
- Bluetooth BLE instant share function
- Easy to view and analyze images quickly
- CAT III 1000V, CAT IV 600V measurement category

**Specifications**

True RMS Multimeter Functions				
Function	Max. Range	Max. resolution	Best Accuracy	
Voltage DC	1000V	1mV	±(0.5% + 5)	
Voltage AC	1000V	1mV	±(1.0% + 5)	
Low Z AC Voltage	600V	1mV	±(3.0% + 40)	
Current DC	10A	0.1μA	±(0.9% + 5)	
Current AC	10A	0.1μA	±(1.2% + 5)	
AC 3000A Current	100mV/1A	1A	±(2.5% + 10)	
Temperature	-20°C to 1000°C -4°F to 1832°F	0.1/1°C 0.1/1°F	±(30% + 5°C)	
Resistance	60MΩ	0.1Ω	±(1.5% + 5)	
Capacitance	6000μF	10pF	±(3.0% + 5)	
Frequency (electrical)	9.999kHz	1Hz	±(0.09% + 5)	
Diode and Continuity	Yes			
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/charger			
Insulation Tester				
Terminal Voltage	Range	Max. Resolution	Accuracy	Test Current
125V(0% ~20%)	0.125~6000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~20%)	0.250~6000MΩ		±(2%+10)	1mA @load250kΩ
500V(0% ~20%)	0.500~6000MΩ		±(2%+5)	1mA @load1500kΩ
1000V(0% ~20%)	1.000~6000MΩ		±(3%+5)	1mA @load1MΩ

**Size(HxWxD):** 97mm x 210mm x 68mm **Weight:** 634g  
**Accessories:** Test leads, 6 x AA Batteries, Type K temperature probe, Software, gift box with carrying case.

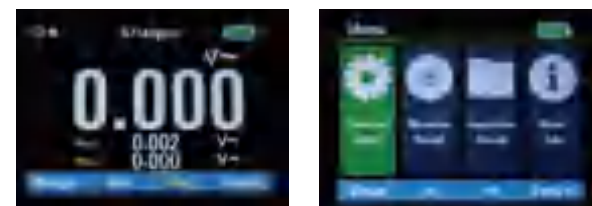


Model DT-320BS  
3000A AC Flexible clamp (optional)

Model 6508B



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Meterbox Pro

The Insulation and Low Ohm Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

**Features**

	6505	6505F
Rugged, utility hard case	*	*
Auto power off to save battery power	*	*
True-RMS	*	*
Data logged	*	*
Low pass filter for accurate measurement of variable frequency drive (VFD) signals	*	*
CAT III 1000V, CAT IV 600V measurement category	*	*
Bluetooth interface	*	*
Save both time and money with Automatic calculation of Polarization Index and Dielectric Absorption Ratio	*	*
Slim probes designed with test button	*	*
200 mA Continuity & Low Ohm range measurement	*	*
Compare function (pass/fail) for fast repetitive tests	*	*
Insulation test voltages 125V, 250V, 500V, 1000V	*	*
Insulation test: 0.001MΩ to 5000MΩ	*	*
Auto discharge of voltage test signal	*	*
Insulation test smoothing reading	*	*
K-type thermocouple	*	*
AC 3000A Current test	*	*

**Specifications**

Multimeter				6505	6505F
Function	Max Range	Max Resolution	Basic Accuracy		
DC Voltage	1000V	0.1V	±(0.1% + 4)	*	*
AC Voltage	1000V	0.1V	±(1.0% + 5)	*	*
Low Z AC Voltage	600V	1mV	±(3.0% + 40)		
AC+DC Voltage	1000V	0.1V	±(3.0% + 40)		
DC Current	10A	0.001A	±(1.0% + 3)	*	*
AC Current	10A	0.001A	±(1.5% + 3)	*	*
AC 3000A Current	3000A	0.01A	±(3.0% + 3)		*
Resistance	50MΩ	0.01Ω	±(1.0% + 4)	*	*
Capacitance	5000μF	0.1μF	±(3.5% + 10)	*	*
Frequency	50MHz	0.001MHz	±(0.1% + 1)	*	*
Duty Cycle	0.1 to 99.90%	0.01%	±(1.0% + 2)	*	*
Temperature	-50 to 1200°C -58 to 2192°F	0.1°C 0.1°F	±(1.0% + 2.5°C) ±(1.0% + 4.5°F)	*	*
Insulation Tester					
Terminal Voltage	Range	Max Resolution	Accuracy	Test Current	
125V(0% ~10%)	0.125~5000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ	*
250V(0% ~10%)	0.250~5000MΩ	0.001MΩ	±(2%+10)	1mA @load250kΩ	*
500V(0% ~10%)	0.500~5000MΩ	0.001MΩ	±(2%+10)	1mA @load1500kΩ	*
1000V(0% ~0%)	1.000~5000MΩ	0.001MΩ	±(2%+10)	1mA @load1MΩ	*
Low Ohm Meter					
	Range	Resolution	Accuracy	Max. open Circuit Voltage	
Resistance	0.000~5.000Ω	0.001Ω	±(1.5% + 30)	5 ±1V	*
	5.00~50.00Ω	0.01Ω	±(1.5% + 3)		
	50.0~500.0Ω	0.1Ω	±(1.5% + 3)		
	500~2000Ω	1Ω	±(1.5% + 5)		

**Size(HxWxD):** 97mm x 210mm x 68mm **Weight:** 634g

**Accessories:** Test leads, 6 x 1.5V“AAA” batteries, Type K temperature probe and Software, gift box with carrying case.

Model DT-320BS  
3000A AC Flexible clamp (optional)



Model 6505F



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 6505





The Insulation and Low Ohm Multimeter combines a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact and handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.



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EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

- Lock power on function for hands-free operation
- Rugged, utility hard case
- Auto power off to save battery power
- True-RMS
- Low pass filter for accurate measurement of variable frequency drive (VFD) signals
- CAT III 1000V, CAT IV 600V measurement category
- Slim probes designed with test button
- 200 mA Continuity & Low Ohm range measurement
- Insulation test voltages 125V, 250V, 500V, 1000V
- Insulation test: 0.001MΩ to 4000MΩ
- High voltage and overload indication
- Low Resistance function with zero mode
- Auto discharge of voltage test signal
- Insulation test smoothing reading
- AC 3000A Current test
- Low Z AC Voltage test

**Specifications**

Multimeter				
Function	Max Range	Max Resolution	Basic Accuracy	
DC Voltage	1000V	0.1V	±(0.5%+5)	
AC Voltage	1000V	0.1V	±(1.0%+5)	
Low Z AC Voltage	600V	1mV	±(3.0% + 40)	
AC+DC Voltage	1000V	0.1V	±(3.0% + 40)	
AC 3000A Current	3000A	0.01A	±(2.5%+10)	
Temperature	-20 to 1000°C	0.1°C	±(1.0% + 2.5°C)	
	-4 to 1832°F	0.1°F	±(1.0% + 4.5°F)	
Insulation Tester				
Terminal Voltage	Range	Max Resolution	Accuracy	Test Current
125V(0% ~10%)	0.125~4000MΩ	0.001MΩ	±(2%+10)	1mA @load125kΩ
250V(0% ~10%)	0.250~4000MΩ	0.001MΩ	±(2%+10)	1mA @load250kΩ
500V(0% ~10%)	0.500~4000MΩ	0.001MΩ	±(2%+10)	1mA @load1500kΩ
1000V(0% ~0%)	1.000~4000MΩ	0.001MΩ	±(2%+10)	1mA @load1MΩ
Low Ohm Meter				
	Range	Resolution	Accuracy	Max. open Circuit Voltage
Resistance	0~400Ω	0.001Ω	±(1.0% + 5)	>5V
	400Ω~4KΩ	0.01Ω	±(1.2% + 5)	

Size(HxWxD): 97mm x 210mm x 68mm Weight: 634g

Accessories: Test leads, 6 x 1.5V“AA” batteries, Type K temperature probe and Software, gift box with carrying case.



Model DT-320BS

3000A AC Flexible clamp (optional)

Model 6505B



3700 Battery Analyzer is ideal test tool for maintenance, troubleshooting and performance testing of individual stationary batteries and battery banks used in critical battery back-up applications. 3700 Battery Analyzers cover a broad range of battery test functions ranging from DC voltage and resistance tests to full condition testing using an automated string function testing and the test probe integrated infrared temperature measurement system. 3700 Battery Analyzer is designed for measurements on stationary batteries of all types.

Reduced testing complexity, a simplified workflow and an intuitive user interface provide a new level of ease-of-use in battery testing.

- The ideal test tool for maintenance, troubleshooting and performance testing of individual stationary batteries and battery banks used in critical battery back-up applications
- The intuitive user interface, compact design and rugged construction ensure optimum performance, test results and reliability
- Covers a broad range of battery test functions ranging from DC voltage and resistance tests to full condition testing using automated string function testing and the test probe integrated infra-red temperature measurement system
- Designed for measurements on stationary batteries of all types.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

- Key measurements: Battery resistance, DC and AC voltage, DC and AC current, ripple voltage, frequency and battery temperature
- Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature
- Comprehensive logging: All measured values are automatically captured during testing and can be reviewed on the instrument before downloading for on-the-go analysis
- Optimized user interface: Quick, guided setup ensures the right data is captured every time, and the combined visual and audio feedback cues reduce the risk of measurement confusion
- Safety CAT III 1000V, CAT IV 600V

**Specifications**

Function	Max Range	Max Resolution	Basic Accuracy
Battery resistance	3mΩ	0.001 mΩ	1 % + 8
	30mΩ	0.01 mΩ	0.8 % + 6
	300mΩ	0.1 mΩ	0.8 % + 6
	3000mΩ	1 mΩ	0.8 % + 6
DC V	6V	0.001V	0.09 % + 5
	60V	0.01V	0.09 % + 5
	600V	0.1V	0.09 % + 5
	1000V	1V	0.09 % + 5
ACV (45 Hz to 500 Hz with 800 Hz filter)	600V	0.1V	2 % + 10
Frequency (displayed with AC V and AC A)	500Hz	0.1Hz	0.5 % + 8
AC voltage ripple (20 KHz Max)	600mV	0.1mV	3 % + 20
	6000mV	1V	3 % + 10
Temperature	0 °C to 60 °C	1 °C	2 °C (4 °F)
Meter mode	999 records for each measurement position with time stamp		
Sequence mode	Up to 100 profiles and 100 profile templates (Each profile stores up to 450 batteries) with time stamp		

Size(HxWxD): 97mm x 210mm x 68mm Weight: 586g

**Accessories:**

Test leads, 6x1.5V“AAA” batteries, Type K temperature probe and Software, gift box with carrying case.



Model 3700







EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

- Double molded plastic housing
- CAT III 1000V

Large dual LCD display with bargraph

When doing power installation, 5505 can provide some special help. When doing insulation test, it can provide 125V, 250V, 500V and 1000V source for the test and under each range it can supply more 1mA current to feed the capacitance load. With the auto-range function, it can measure up to 4000 MegaOhm with the resolution of 1Kohm. These characteristics are also specified in the safety regulations in CE document.

- Auto-discharge of capacitive voltage for added user protection
- Live circuit detection prevents insulation test if voltage >30V is detected for added user protection
- Min/Max recording & Data Hold
- 1mA test current for MegOhm range at rated voltage
- 200mA short current for continuity range
- Additional test voltages 125V, 250V, 500V, 1000V



Model 5505

Features	
Meets IEC10101, CATIII 1000V	
Large dual display with analog bargraph & backlight	
Test hold & lock function for easy operation	
Easy to carry testing package	
Over range Indication	
Low Battery Indication	
Includes 6 AA batteries, test leads and plastic carrying case	

Specifications			
	Range	Max Resolution	Basic accuracy
Voltage AC	750V	1V	±1.2%rdg ±10dpts
Voltage DC	1000V	1V	±0.8%rdg ±3dpts
Resistance	40Ω, 400Ω	0.01Ω, 0.1Ω	±1.5%rdg ±6dpts
Insulation Resistance	4M, 40M, 400M, 4000MΩ	1kΩ~1MΩ	±2.0%rdg ±6dpts
Test Voltage & Current	125V/250V/500V/1000V & 1mA nominal		
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0°C~40°C(<80%R.H.)		
Storage Temp	-10°C~60°C(<70%R.H.)		
Power Source	1.5V "AA" size Battery x 6		



**Accessories:**  
Test leads, "AA" Battery x 6 and gift box with carrying case.

**Size(HxWxD):** 200mm x 92mm x 50mm  
**Weight:** 582g



- 1mA test current for MegOhm range at rated voltage
- 200mA short current for continuity range

Features			
	5500	5520	5530
Meets IEC10101, CATIII 1000V	*	*	*
Large dual display with backlight	*	*	*
Test hold function for easy operation	*	*	*
Easy to carry testing package	*	*	*
Over range indication	*	*	*
Low battery indication	*	*	*
Measurement range(Ω)	200M/2000M	20M/200M/2000M	20M/200M/2000M

Specifications			
	Range	Max Resolution	Accuracy
Voltage AC	750V	1V	±1.2%rdg ±10dpts
Voltage DC	1000V	1V	±0.8%rdg ±3dpts
Resistance	200Ω, 2000Ω	0.1Ω, 1Ω	±1%rdg ±2dpts
Insulation Resistance	200MΩ, 2000MΩ	100kΩ~1MΩ	±3.5%rdg ±5dpts
	20MΩ(5520 only)	10kΩ	±3.5%rdg ±5dpts
Test Voltage	250V-200MΩ/500V-200MΩ/1000V-2000MΩ, (500V-20MΩ only 5520)		
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0°C~40°C(<80%R.H.)		
Storage Temp	-10°C~60°C(<70%R.H.)		
Power Source	1.5V "AA" size Battery x 6		



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



- Double molded plastic housing
- CAT III 1000V



**Size(HxWxD):** 200mm x 92mm x 50mm  
**Weight:** 582g



Model 5500

**Accessories:**  
Test leads, "AA" Battery x 6 and gift box with carrying case.

**DT-5503 Analogue Insulation Tester**

The 5503 is a highly compact and easy to use Insulation and Continuity Tester. The instrument offers three insulation test ranges: 250V, 500V and 1000V, a 3Ω continuity range and a 500Ω resistance range. This meter is not only equipped with a "Live Circuit Warning" but also displays the actual AC voltage measurements of the mains supply.

Specifications	
DC Test Voltage	250V 500V 1000V
Measuring Ranges (Mid-Scale Value)	0-100MΩ(1MΩ); 0-200MΩ(2MΩ); 0-400MΩ(4MΩ)
Rated Current	1mA DC+20%, -0%
Output short Circuit Current	1.3mA DC approx
Accuracy Guaranteed Ranges	0.05-10MΩ ±5%; 0.1-20 Ω ±5%; 0.2-40MΩ ±5%;
Accuracy	±7% of Scale length at ranges other than above ranges

Continuity Test Ranges	
Accuracy	±1.5% of Scale Length
Open Circuit Voltage Output	4.1VDC (Approx)
Short Circuit Current Output	210mA Min

AC Voltage Warning	
AC Voltage Range	0-600V AC for 30 seconds
Accuracy	±5% of Scale Length
Input Impedance	1.2MΩ

General	
Withstand Voltage	7400V AC 50Hz or 60Hz for one minute between electrical circuits and housing case
Safety Standards	IEC 61010-1 CAT III

**Size(HxWxD):** 200mm x 92mm x 50mm  
**Weight:** 546g

**Accessories:**  
Test leads, "AA" Battery x 6 and gift box with carrying case.



Model 5503





Model 5300B



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

- Double molded plastic housing
- CAT III 1000V



Electronic Digital Earth Resistance Tester is direct replacement of the conventional hand generator type tester. It is designed for measurement of the resistance of earthing used in the electrical equipment as well as for measurement of ground resistivity. It can be used for measurements of the other low regular and liquid resistances. It can also be used for measurement of voltage AC, voltage DC and resistance.

This instrument has wide application for testing earthing installation in power based industries, telecommunication networks and electrical traction systems etc.

**Features**

- Meets IEC10101, CATIII 1000V
- Large dual display with backlight & Low Battery Indication
- Test hold function for easy operation
- Zero Automatic adjustment
- Sampling Rate: 2.5 times per second
- Includes 6 "AA" batteries, test leads and carrying case

**Specifications**

	Range	Max Resolution	Accuracy
Earth resistance	10Ω	0.01Ω	±2%rdg ±0.1Ω
	100Ω	0.1Ω	±2%rdg ±3dpts
	1000Ω	1Ω	±2%rdg ±3dpts
Voltage AC	750V	1V	±1.2%rdg ±10dpts
Voltage DC	1000V	1V	±0.8%rdg ±3dpts
Resistance	200kΩ	0.1kΩ	±1.0%rdg ±2dpts
Continuity Test	Active Sound Level: ≤40Ω, Test current ≤200mA		
Operating Temp	0°C~40°C(<80%R.H.)		
Storage Temp	-10°C~60°C(<70%R.H.)		
Power Source	1.5V "AA" battery x 6		

Size(HxWxD): 200mm x 92mm x 50mm  
Weight: 582g

Accessories:  
Test leads and "AA" Battery x 6, Rubber holster, 4-wire cable and iron rod x 2, gift box with carrying case.

**DT-5301 LOOP/PSC Tester**

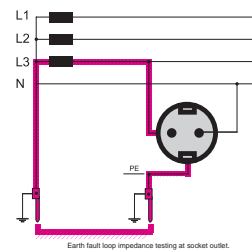
Custom microprocessor controlled for highest accuracy and reliability

- 3 LEDs for checking correct wiring status
- 15mA LOOP measurement: LOOP impedance 2000Ω range measurement is carried out with low test current(15mA)
- Direct reading of Prospective Short Circuit Current(PSC)
- Safe voltage measurement function
- Large custom digital display readout on all models
- Measure low loop resistance(resolution of 0.01Ω)
- Automatic lock-out if test resistor overheats
- Visual indication of reversed phase and neutral wiring at socket

- Double molded plastic housing
- CAT III 600V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 5301

**Specifications**

	Max Resolution	Accuracy
Loop Impedance	20/200/2000Ω	±2.5% rdg ±4dpts
AC Test Current	20Ω 25A; 200Ω 2.3A; 2000Ω 15mA	±2%rdg ±5dpts
AC Test Period	20Ω 20ms; 200Ω 40ms; 2000Ω 280ms	±2%rdg ±5dpts
PSC	200A (2.3A 40ms); 2000A(25A 20ms); 20KA (25A 20ms)	Consider accuracy impedance
Voltage	50V ~ 250V	±2%rdg ±5dpts
Resistance	0.1kΩ	±1.0%rdg ±2dpts
Operating Voltage	230V + 10% - 15% (195V ~ 253V) 50Hz	
Safety Standard	IEC61010-1 CATIII 600V	

Size(HxWxD): 200mm x 92mm x 50mm

Weight: 582g

Accessories: Test leads and "AA" Battery x 6, gift box with carrying case.



Model 5554

- Double molded plastic housing
- CAT III 1000V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Custom microprocessor controlled for highest accuracy and reliability

- Safe voltage measurement function
- Large custom digital display readout on all models
- Visual indication of reversed phase and neutral wiring at socket

**Specifications**

Measurement specifications	Ranges	resolution	accuracy
Nominal test current	10/30/100/500mA/1A		(-2%+10%)+6Digits
Current selection	0.5x, 1x, 2x, 5x nominal current		
Trip time	10-2000 ms at 0.5x	1 ms	±(2%rdg. + 2Digits)
	10-500 ms at 1x		
	10-150 ms at 2x		
Ramp test	10-40 ms at 5x		
	0.4x to 1.4 times nominal rated current		10%
Mains voltage	230(+10%/ -10%)V	1V	±(2%rdg. + 2Digits)



Size(HxWxD): 200mm x 92mm x 50mm

Weight: 582g

Accessories:

Test leads and "AA" Battery x 6, gift box with carrying case.

**DT-5302 DMM with Kelvin(4-wire) small resistance measurement**

- Four terminal Kelvin measurement
- 4000 counts 3<sup>3</sup>/<sub>4</sub> digital LCD display with backlight
- High resolution to 0.1mΩ with test current to 200mA
- Low battery indication
- Over load protection on all ranges

- Double molded plastic housing
- CAT III 1000V

**Features**

- High accuracy, high resolution portable Milliohm Meter or field use
- Digital display 4000 counts
- Safety design
- Relative zero & Data Hold
- MAX/MIN recording mode
- Auto Power Off
- 400mΩ Low Resistance & Wide 40mF capacitance range
- Diode Check & Continuity Test

**Specifications**

Function	Max. Range	Basic Accuracy
Low Resistance	400mΩ, 4Ω, 40Ω	±(1.0%+5d)
Voltage DC	1000 V	±(1.0%+2d)
Voltage AC	1000V	±(1.2%+5d)
Current DC	400mA	±(1.0%+2d)
Current AC	400mA	±(1.2%+5d)
Resistance	40MΩ	±(1.0%+5d)
Capacitance	40mF	±(3.0%+10d)

Size(HxWxD): 200mm x 92mm x 50mm

Weight: 582g

Accessories:

Rubber holster, 4-wire cable and 6x1.5V "AA"battery, test leads, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 5302





- Wide range measurements from 500V to 5000V and up to 60GΩ.
- Large 6000 counts digital display with bargraph and backlight.
- Polarization index measurement(PI).
- Auto ranging & Timer measurement function.
- Indication of output voltage and discharge voltage.
- Auto-discharge function and voltage output warning function.
- Auto power off and battery check.
- MAX/MIN, PEAK, Relative value & Data hold functions for DC/AC voltage measurements
- Safety standard IEC61010-1 CAT IV 600V



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 6605

Specifications

Function	Insulation resistance				Voltage	Resistance
Range	500V	1000V	2500V	5000V	AC/DCV	
Measuring range (Auto ranging)	0~6.000MΩ 6~60.00MΩ 60~600.0MΩ 600~6000MΩ	0~6.000MΩ 6~60.00MΩ 60~600.0MΩ 600~6000MΩ	0~60.00MΩ 60~600.0MΩ 0.6~6.000GΩ 6~60.00GΩ	60~600.0MΩ 60~600.0MΩ 0.6~6.000GΩ 6~60.00GΩ	0~600.0V (50~1kHz)	0~600.0Ω 600~6000Ω
Accuracy	±5%rdg ±3dgt ; ±20% (>6GΩ or more)				±1.5%rdg ±5dgt	±1.5%rdg ±10dgt
Short Circuit Current	1.3mA approx				-	-
Rated test Current (at load Resistance)	1mA-1.2mA 0.5MΩ	1mA-1.2mA 1MΩ	1mA-1.2mA 2.5MΩ	1mA-1.2mA 5MΩ	-	-
Open circuit voltage	500VDC/+20%-0%	1000VDC/+20%-0%	2500VDC/+20%-0%	5000VDC/+20%-0%	-	-
Continuity check	Buzzer sounds at 50Ω				-	-
Display	6000 Counts				-	-
Current consumption	About 1000mA (During measurement)				25mA approx.	-
Withstand voltage	5320V AC for 5 seconds				-	-
Safety standard	IEC 61010-1 CAT IV 600V Pollution Degree 2				-	-
Power supply	DC12V : R14 x 8				-	-
Dimension	198 (L) x 148 (W) x 86 (D) mm				-	-
Weight	1438g approx.				-	-
Accessories	Test leads, Instruction manual and 120V/250V AC adaptor				-	-

7750 Appliance Tester has been developed for measurements of the protective conductor resistance with compensation of the measuring line, insulating resistance, the protective conductor current, the contact current, the device leakage current, the leakage current of the applied part, and input voltage, input current, effective power and apparent power. It is for safety-related testing of electrical appliances in compliance with DIN VDE 0701-0702 and DIN VDE 0751-1



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features:

- Measurement of the protective conductor resistance with compensation of the measuring line
- Measurement of the insulating resistance
- Measurement of the protective conductor current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the contact current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the device leakage current (alternative leakage current measurement, direct current measurement or differential current measurement method)
- Measurement of the leakage current of the applied part (alternative leakage current measurement or direct current measurement method)
- Functional test with measurement of input voltage, input current, effective power and apparent power
- Testing of IEC leads and extension cables



Model 7750

Specifications

	Range	Resolution	Accuracy	Internal resistance
Measurement of the alternative leakage current	0.050~25.000mA	0.001mA	At 230 V AC ±10% ±15% of the measured vaue	VDE 0701-0702 Ri 2k VDE 0751-1 Ri 1k
Measurement by means of the differential current measurement method	0.050~25.000mA	0.001mA	At 230 V AC ±10% ±15% of the measured vaue(from 100uA on) Manual / automatic pole reversal	VDE 0701-0702 Ri 2k VDE 0751-1 Ri 1k
Test socket(functional)	0.0~360V AC(50-60HZ)	0.1V	U(V) ±15% of the measured vaue	
	0.10~20A AC(50-60HZ)	0.01A	I(A) ±15% of the measured vaue	
	0~4000W 0~4000VA	1W 1VA	P(W) ±15% of the measured vaue S(VA) ±15% of the measured vaue	
Safety extra-low voltage (PELV,SELV) measurement by means of probe	0.1~360 V AC/DC	0.1V	At 230 V AC ±10% ±15% of the measured vaue	

LOW Ohm

	Range	Resolution	Accuracy	NOMINAL VALUES
LOW Ohm	0.00~20.00	0.01Ω	+(1.5%+5)	12.0V +1VDC
	RLO≤2.0Ω IN≥200mA	250Vrms		
	20.0~200.0Ω	0.1Ω		
	200~2000	1Ω		

Insulation Specifications

Terminal Voltage	Range	Resolution	Accuracy	Test Current	Short circuit current
1000V (0%~+10%)	1.000~4.000 MΩ	0.001MΩ	+(3%+10)	1mA @load1MΩ	≤1mA
	4.001~40.00 MΩ	0.01MΩ	+(2%+10)		
	40.01~400.0 MΩ	0.1MΩ	+(3%+2)		
	400.1~1000 MΩ	1MΩ	+(4%+5)		

Size(HxWxD): 410mm x 300mm x 171mm    Accessories : Test leads, Software and gift box.  
Weight: 2.8kg



## AC Current and Voltage Dataloggers

- Large capacity for storing measuring data points
- ACA current clamp sensor (CP-09)
- Voltage sensor measure the floating voltage to meet CAT III 600V
- LCD to show some logging information easily
- Freely selectable measurement cycle from 1sec. to 24h
- Download collected data through USB interface
- Alarm display if user-defined max/min values exceed
- Analysis software used to view graph for logging data



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The 195 is a datalogger for measuring and recording current, voltage, active power, apparent power, Power Factor and Electrical Energy  
The readings are saved in the logger and simply read out by your smartphone bluetooth interface.  
The LCD can show measuring readings, MAX, MIN and alarm indication.



### Features

- Record and software features include:
- Configurable recording interval
- Graphical and spreadsheet data summaries
- Min, Max, Average RMS values with time stamps
- Transient waveform recording
- Bluetooth interface
- Print tables, graphs and comprehensive formatted reports
- View, print and export data

### Specifications

	Range	resolution	Accuracy
AC Voltage	1-600V	1V	±(1.5% +5)
AC Current	1-200A	1A	±(1.5% +5)
Active power	0-120000w	1W	P(W) ±15% of reading
Apparent power	0-120000VA	1VA	S(VA) ±15% of reading
Power Factor	0-1	0.01	±(5% +3)
Input channel	Dual		
Frequency range	50/60Hz		
Reading memories	100000		
Measuring rate	1 sec. to 60min		
Analysis software	Windows 98 /2000/XP/Vista/Win7/8/10		



Model 195



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

## DT-175CVS/175CV1/176CV2/177CV3 AC Current and Voltage Dataloggers

The 175CVS is a datalogger for measuring and recording current and voltage.  
The 175CV1/176CV2/177CV3 are dataloggers for measuring and recording True RMS current and voltage.  
The readings are saved in the logger and simply read out by your PC via USB interface.  
The LCD can show current readings, MAX, MIN and alarm indication.

### Features

	175CVS	175CV1	176CV2	177CV3
Input channel	Dual	Single	Dual	Three
Digital LCD Display	*	*	*	*
ACV/Load current/Leakage current measurement	*	*	*	*
True RMS measurement	*	*	*	*
Data memory	100,000	100,000	256,000	256,000
Wave memory	*	*	*	*
MAX / MIN, Peak mode	MAX / MIN	*	*	*
Time & Date Display	*	*	*	*
Wave store	*	*	*	*
Auto power off	*	*	*	*
USB interface	*	*	*	*
Manual and Automatic mode	*	*	*	*

### Specifications

Function	Range	Basic Accuracy	175CVS	175CV1	176CV2	177CV3
AC Current (True RMS)	2-200A	±2%	*	*	*	*
AC Voltage (True RMS)	6-600V	±1.5%	*	*	*	*
Reading Memories			100,000	100,000	256,000	256,000
Measuring rate	1 sec. to 24h					
Analysis software	windows 98/2000/XP/Vista/Win7/8/10					

Size(HxWxD): 114mm x 63mm x 34mm

Weight: 248g

Accessories : ACA current clamp-on adaptor (CP-09), USB cable, Software, battery and gift box.



Model 176 CV2



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



DT-901 Phase Rotation indicator

CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 901



The Phase Rotation Indicator is a handheld instrument designed to detect the rotary field of three-phase systems.

- 3 Phase indication
- Indication of phase rotation
- Clear LCD display
- No battery required

Features

Nominal voltage	40V to 690V AC
Frequency range	15 to 400Hz
Current pickup	1mA
Nominal test current(per phase)	1mA
Power supply	From unit under test
Electrical safety	IEC61010/EN61010; IEC61557-7/EN61557-7
Protection level	CATIII 600V
Type of protection	IP40
Operating temperature	0°C to 40°C

Size(HxWxD): 128mm x 68mm x 30mm  
Weight: 185g

DT-902 Motor and Phase Rotation Indicator

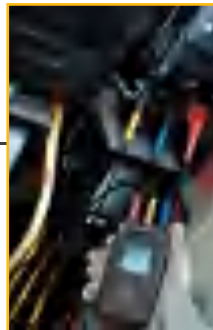
The Motor and Phase Rotation Indicator is a handheld, battery-operated Instrument designed to detect the rotary field of three-phase system and determine motor-rotation direction.

- Determine rotary field direction
- Non-contact rotary field indication
- Determine the motor connection
- Magnetic field detection

Features

Nominal voltage rotary direction	1V to 400V AC
Nominal Voltage phase indirection	120V to 400V AC
Frequency range	2 to 400Hz
Test Current (per phase)	< 3.5 mA
Electrical safety	DIN, VDE 0411, IEC61010 DIN;IEC61557-7/EN61557-7
Protection level	CATIII 600V
Type of protection	IP40
Operating altitude	2000m
Operating temperature	0°C to 40°C

Size(HxWxD): 128mm x 68mm x 30mm  
Weight: 185g



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 902

DT-903 Socket Polarity and Earth Leakage Tester

CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 903



903 Socket Polarity and Earth Leakage Tester tests 3 wire 220V AC outlets and earth leakage circuit breakers(ELCB).

Specifications

Power supply	From unit under test
Electrical safety	IEC61010/EN61010; IEC61557-7/EN61557-7
Protection level	CATIII 600V
Type of protection	IP40
Operating temperature	0°C to 40°C

Size(HxWxD): 128mm x 68mm x 30mm  
Weight: 185g

- 2000ms readout for testing latest delay action breakers.
- Fully programmed operation
- Accurate digital read out of tipping time
- Two neon lamps give quick check for correct wiring
- Operates from mains supply. No need for batteries
- Compact, light weight and simple to operate
- Zero cross circuit permits testing at 0° and 180° portion of sine wave at these two tests minimum(best) and maximum(worst) trip times will be displayed
- Data hold function to freeze the digital trip time displayed allows for easy readout and eliminates the possibility of reading error



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 904

Specifications

	Max Resolution	Accuracy
Trip current settings	5mA, 10mA, 30mA, 100mA, 300mA, 500mA	
Test Current (No Trip Test)	50% of circuit breaker trip current selected	2000mS ± 5%
Test Current (Trip Test)	100% of circuit breaker trip current selected	2000mS ± 5%
Test Current (Fast Trip Test)	250mA regardless of circuit breaker trip current selected	40mS ± 5%
Fault trip Time	2000mS (40mS for Fast Trip)	±2%rdg ±3dgt
Resistance	0.1kΩ	±1.0%rdg ±2dgt
Operating Voltage	220V, 230V, 240V AC ± 10%	± 3%

Size(HxWxD): 128mm x 68mm x 30mm  
Weight: 185g

DT-905A Socket Polarity Tester

The new ergonomic, easy to use socket tester is designed to make the electricians job easier and is ideal for first level indication for testing standard mains sockets.

- Clear LED indication of wiring status
- Modern, ergonomic design
- Compact and durable
- Simple to use, just plug into socket for autotest



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 905A

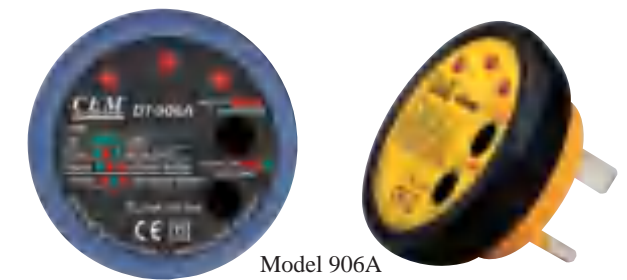
DT-906A Socket Polarity and Earth Leakage Tester

906A is a professional socket tester with modern, ergonomic and durable design, to test the safety of installed mains socket.

906A also checks 30mA RCDs, a unique soft-touch button tests that an RCD in the circuit trips within 300ms when a nominal 30mA earth fault current is applied; a further button, the earth volts touchpad, detects raised earth voltages above 50V AC, thus indicating potentially dangerous installations.

Three vivid bicolour LEDs and a buzzer on 906A provide a quick-to-check combination of signals which indicate correct wiring, missing earth, live/neutral reverse, earth/live reverse, missing neutral, live faults, and those errors detected by the two pushbutton tests.

Size(HxWxD): 69mm x 67mm x 32mm  
Weight: 80g



Model 906A





EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Features**

- Fully programmed operation
- Accurate digital read out of tripping time and Current
- 450ms readout for testing latest delay action breakers
- Two LED lamps give quick check for correct wiring
- Compact, lightweight and simple to operate
- Zero cross circuitry permits testing at 0° and 180° portion of sine wave

**Specifications**

Operational voltage	195V - 253V /45 - 65Hz
Trip current settings	10mA, 30mA, 100mA, 300mA, 500mA, 650mA
Trip current measurement accuracy	±10% ±2digits
Trip time ranges	0ms - 300ms
Trip time accuracy	±5% ±3digits
Ramp test	x0.4 to 1.1 times nominal rated current, accuracy±10 %

Size(HxWxD): 200mm x 70mm x 45mm  
Weight: 253g

Accessories:  
Test leads, 4 x "AA" batteries and Clamshell.



Model 9054



DT-9053 Circuit Analyzer



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



9053 insulation test has been evaluated and complies with insulation category III (overvoltage category III). Pollution degree II in accordance with IEC-644 indoor use.

- Digital LCD display with backlit
- Display update for voltage less than 2.5 second
- Over-range indication on all functions
- ACV True RMS measurement

**Specifications**

	Range	Resolution	Accuracy
Line voltage	85.0~250.0 VAC	0.11V	±1.0%rdg ±0.2dpts
Peak line voltage	121.0~354.0 VAC	0.1V	±1.0%rdg ±0.2dpts
Frequency	45.0~65.0 Hz	0.1Hz	±1.0%rdg ±0.2dpts
% voltage drop	0.1% ~99.9%	0.1%	±2.5%rdg ±0.2dpts
Voltage loaded	10.0 ~ 250.0 VAC	0.1V	±2.5%rdg ±0.2dpts
Neutral-Ground V	0.0 ~ 10.0 VAC	0.1V	±2.5%rdg ±0.2dpts
Impedance-Hot neutral & Ground	0.00Ω~3.00Ω> 3Ω	0.01Ω	±2.5%rdg ±0.02dpts
GFCI Trip Time	1ms to 6.5ms counter	1ms	±1.0%rdg ±2ms
GFCI Trip Current	6.0 ~ 9.0mA	0.1mA	±1.0%rdg ±2mA
EPD Trip Current	30.0 ~ 37.0mA	0.1mA	±1.0%rdg ±2mA

Size(HxWxD): 200mm x 70mm x 45mm  
Weight: 206g

Accessories: Clamshell.



Model 9053



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



9050 Insulation Tester is designed according to standard EN61557-2, and also respects international electrical safety standard IEC 61010-1.

**Specifications**

Output voltage	500V DC
Nominal output current	500V, 1mA
Measurement range	0, 300k, 400k, 500k, 600k, 700k, 800k, 900k, 1000kΩ, ∞
Size	210 x 70 x 45mm
Total weight	316g

**Accessories:**

Test leads, 4 x "AA" batteries and clamshell.



Model 9050



DT-9051 Earth Tester



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9051



**Specifications**

Max input AC Voltage	400V±10%
Operating AC Voltage	230V±10%
Operating Frequency	50Hz±10%
Measurement range	0Ω, 5Ω, 10Ω, 30Ω, 50Ω, 100Ω
Fuse size	5 x 20mm/160mA

Size(HxWxD): 210mm x 70mm x 45mm  
Weight: 311g

Accessories: TL-905, 9V battery and clamshell.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Principle of measurement by "fault loop" for installations with neutral as per diagram indication  
Earth loop measurement current less than the drop-out threshold of the 30mA circuit breakers  
Measurement of the earth resistance by 3 1/2 digit display from 0 to 1999Ω (resolution 1Ω measurement updated every 1.5s)

- Two-colour back-lit LCD display
- IEC 61010-1 EN 61557-4
- Installation category III
- Class II IP40 ,IK06

**Specifications**

Accuracy	+/- (3%+1dgt) for pure resistance (range 0-2000Ω at 23°C+/-5°C)
Operating voltage	230V(Ph/N)-10/+6%
Operating frequency	50/60Hz
Weight	340g
Size	210 x 72 x 50mm



Model 9052







Model 9055



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Principle of measurement by "fault loop" for installations with neutral as per diagram indication  
Earth loop measurement current less than the drop-out threshold of the 30mA circuit breakers  
Measurement of the earth resistance by 3 1/2 digit display from 0 to 1999Ω (resolution 1Ω measurement updated every 1.5s)

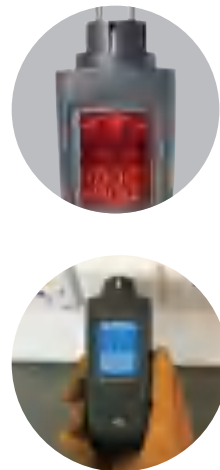
- Two-colour back-lit LCD display
- IEC 61010-1 EN 61557-4
- Installation category III
- Class II IP40 ,IK06

**Specifications**

Measurement Range	Accuracy
0.0Ω -19.9Ω	± 0.8 Ω
19.9Ω -99.9Ω	± 6.5 Ω
100Ω -999Ω	± 7.5 Ω
1.00kΩ -2.00kΩ	± 16.0 Ω
Operating voltage	230V(Ph/N)-10/+6%
Operating frequency	50/60Hz
Weight	340g
Size	210 x 72 x 50mm

Size(HxWxD): 195mm x 70mm x 48mm  
Weight: 415g

Accessories: Clamshell.



DT-9056 Digital Earth Loop Tester



Model 9056



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



9056 insulation test has been evaluated and complies with insulation category III (overvoltage category III). Pollution degree II in accordance with IEC-644 indoor use.

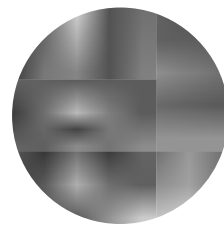
- Digital LCD display with backlit
- Display update for voltage less than 2.5 times/second
- Over-range indication on all functions
- ACV True RMS measurement

**Specifications**

	Range	Resolution	Accuracy
Line voltage	85.0~250.0 VAC	0.1V	±1.0%rdg ±0.2dgt
Peak line voltage	121.0~354.0 VAC	0.1V	±1.0%rdg ±0.2dgt
Frequency	45.0~65.0 Hz	0.1Hz	±1.0%rdg ±0.2dgt
% voltage drop	0.1% ~99.9%	0.1%	±2.5%rdg ±0.2dgt
Voltage loaded	10.0 ~ 250.0 VAC	0.1V	±2.5%rdg ±0.2dgt
Neutral-Ground V	0.0 ~ 10.0 VAC	0.1V	±2.5%rdg ±0.2dgt
Impedance-Hot neutral & Ground	0.00Ω~3.00Ω> 3Ω	0.01Ω	±2.5%rdg ±0.02dgt
GFCI Trip Time	1ms to 6.5ms counter	1ms	±1.0%rdg ±2ms
GFCI Trip Current	6.0 ~ 9.0mA	0.1mA	±1.0%rdg ±2mA
EPD Trip Current	30.0 ~ 37.0mA	0.1mA	±1.0%rdg ±2mA

Size(HxWxD): 195mm x 70mm x 48mm  
Weight: 415g

Accessories: Clamshell.



Quickly checks for correct wiring of AC outlet load handling capabilities plus Outlet Tester functions

**Features**

- Outlet Tester functions:AFCI
- GFCI Trip Current
- GFCI Trip Time
- EPD Trip Current
- Neutral to Ground Voltage
- Hot, Neutral and Ground Impedance
- Open or Reversed wiring
- AC Load Tester: Selectable loads of 12, 15 and 20 Amps
- Measures loaded and unloaded AC Line Voltage
- Calculates and displays % Voltage Drop and Line Impedance
- Displays Peak Line Voltage and Frequency
- Over-Temperature protection
- Complete with AC test cord

**Specifications**

Measurement Range	Accuracy
AC Voltage	85.0 to 250.0V
Frequency	45.0 to 65.0Hz
Peak Line Voltage	350.0V
% Voltage Drop	0.1 to 99.9%

Size(HxWxD): 195mm x 70mm x 48mm  
Weight: 415g

Accessories: Clamshell.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 9057

USB-10/20 USB DC Voltage/ Current Tester

USB-10/20 USB DC Voltage/ Current tester is used to inspect USB charger and portable power source of electronics products. USB-10/20 can output voltage, current, and power. Users can use this device to monitor charging status of any USB powered device.



Model USB-10

**Features**

- High/Low output voltage warning
- LCD display with backlight (USB-20)
- LED display (USB-10)
- Lightweight, portable, easy to use

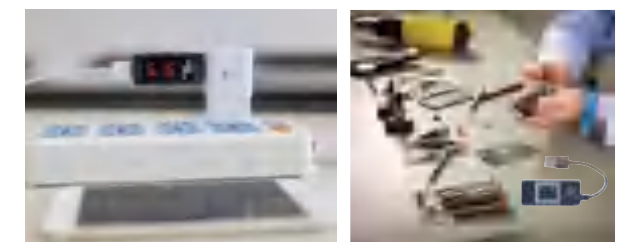
**Specifications**

Input Voltage Range (V)	3V-9V
Voltage Resolution	0.01V
Voltage Monitoring Accuracy	±1%
Current Monitoring Range (A)	0A~3A
Current Monitoring Accuracy	±(1%±2)
Current Resolution	0.01A

Size(HxWxD): 23mm x 65mm x 13mm  
Weight: 17g



Model USB-20





Cable Locator



CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

LA-1012B Transmitter

LA-1012 Receiver

Tracing of underground cables (max.depth 2.5m)

Location of fuses/breakers and assignment to circuits

The cable locator is a professional general purpose cable locator. It is ideal for tracing cables in walls and underground, locating fuses/breakers on final circuits and locating interruptions and short-circuits in cables and electrical floor heating systems. It can also be used for tracing metallic water and heating pipes. The unit is supplied as a complete kit comprising of a transmitter and receiver in a purpose-made carry case. The receiver also incorporates a torch function for working in dimly lit locations.

- For all applications (live or dead cables) without additional instruments
- Set includes a transmitter and a receiver
- Proven digitally coded sender signal guarantees clear signal identification
- Transmitter with LCD-display for transmitting level, transmitting code and external voltage
- Receiver with backlight LCD-display for level of receiving signal, code of receiving signal and live voltage indication
- Automatic or manual adjustment of receiving signal sensitivity
- Acoustical receiving signal switchable
- Auto Power Off
- Additional torch lamp function for working in dark environment
- Additional transmitters are available for extension of to distinguish between several signals



Model LA-1012B  
Transmitter

Model LA-1012  
Receiver

Technical Specifications

Voltage measurement range	Transmitter: 12V, 50V, 120V, 230V, 400V
Frequency range	Transmitter: 0...60Hz
Output signal	Transmitter: 125kHz
Voltage	Transmitter: Up to 400V AC/DC
Tracing depth cable location	Receiver: 0...2.5 m wall/underground cables
Main voltage detection	Receiver: 0...0.4 m

Environmental Specifications

Operating temperature	Transmitter: 0 to 40°C; Receiver: 0 to 40°C
Storage temperature	Transmitter: -20°C to 60°C ; Receiver: -20°C to 60°C
Humidity (without condensation)	Transmitter: Max. 80% relative; Receiver: Max. 80% relative
Operating altitude	Transmitter: Up to 2000 m; Receiver: Up to 2000 m

Safety Specifications

Electrical safety	EN 61010-1
Overvoltage category	CAT III 300V

LA-1012:

Size(HxWxD): 190mm x 60mm x 37mm  
Weight: 229g

LA-1012B:

Size(HxWxD): 128mm x 68mm x 30mm  
Weight: 185g

Accessories:

2 x 9V batteries, Crocodile clips, Test leads and gift box with carrying case.



CE

EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033





## Non-Contact detection of AC Voltage

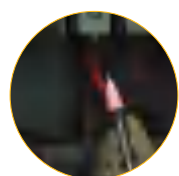
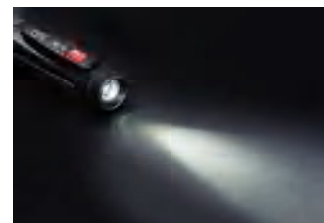
The Non-contact AC Voltage Testers are easy to use — just touch the tip to a terminal strip, outlet, or supply cord. When the tip glows red and the unit beeps, you know there's voltage present. Electricians, maintenance, service, safety personnel, and homeowners can quickly test for energized circuits in the workplace or at home.

**Features:**

- High power rear flashlight
- Thinner probe tip for working with wall outlets
- Green LED means power on, flashing red LED with beeper means voltage detected
- Low battery selftest & Auto power off
- Two modes, green means high voltage mode, yellow means low voltage mode
- Forward facing flashlight
- Flash and Beep rate increase as the detector gets closer to the voltage source helping the user pinpoint live circuits
- Power ON/OFF switch & Silent Mode
- Pocket clip for easy storage
- CATIV-1000V, IP67 Water proof & 2m drop-proof
- ATEX certificate for AC-15Ex/AC-15Exs

- High power rear flashlight
- Dual Voltage Sensitivity detector

- CATIV 1000V
- IP67 Water proof & 2m drop-proof



Specifications		AC-11	AC-11B	AC-11H	AC-15	AC-15B	AC-15S	AC-15Ex	AC-15 Exs
ACV Non-Contact Detection		*	*	*	*	*	*	*	*
Operating Range (50Hz/60Hz)	12V to 1000V	*	*	*	*	*	*	*	*
	24V to 1000V	*	*	*	*	*	*	*	*
Voltage Sensitivity detector (Single)	50V to 1000V	*	*	*	*	*	*	*	*
	100V to 1000V	*	*	*	*	*	*	*	*
Flashlight function	200V to 1000V	*	*	*	*	*	*	*	*
	2m drop-proof	*	*	*	*	*	*	*	*
Motor shaking						*	*	*	
Ex ib IIB T4 (ATEX)						*	*	*	
Dual Voltage Sensitivity detector									
Red/Yellow/Green LED indicators									
Auto Power Off									
Beeper sounds									
System self test									
Switchable audible and silent mode									
Rugged, double molded case									
CATIV-1000V									
Size(HxWxD)		160 x 20 x 23mm	155x26x23mm		160mm x 23mm x 25mm				
Weight		60g	55g		55g				

Accessories: Two "AAA" batteries and clamshell

Model AC-15



Model AC-15EX



Model AC-11

Model AC-11H



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model AC-6H

Model AC-6

Model AC-8

Model AC-10

Model AC-9

AC-6B  
AC-6S  
AC-6F

AC-8B  
AC-8S

AC-10S

AC-9B  
AC-9C

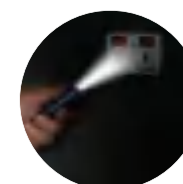
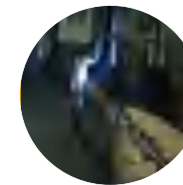
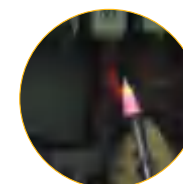
**Features:**

- Easy-to-use just touch the tip to an outlet or cord. When it glows red, you know there is voltage in the line.
- Fit in shirt pocket for convenience
- All outer surfaces are non-conductive for safety
- Detects AC voltage without metallic contact



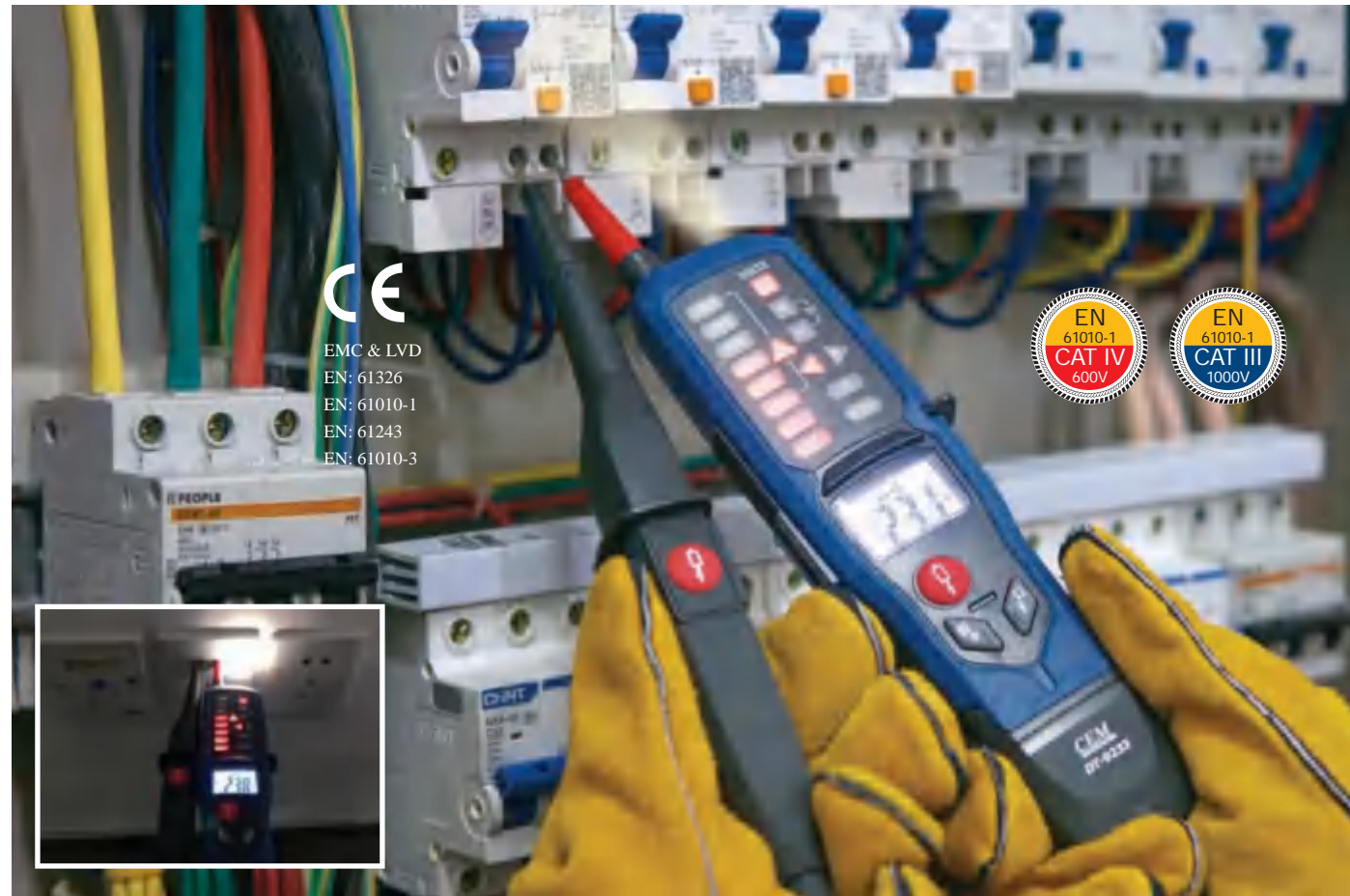
Features	AC-6	AC-6B	AC-6S	AC-6H	AC-8	AC-8B	AC-8S	AC-9	AC-9B	AC-9C	AC-10	AC-10S
ACV Non-Contact Detection	*	*	*	*	*	*	*	*	*	*	*	*
Operating Range (50Hz/60Hz)	24V to 1000V	*	*	*	*	*	*	*	*	*	*	*
	50V to 1000V	*	*	*	*	*	*	*	*	*	*	*
	100V to 1000V	*	*	*	*	*	*	*	*	*	*	*
	200V to 1000V	*	*	*	*	*	*	*	*	*	*	*
Voltage Sensitivity detector (Single)	*	*	Dual	Dual	*	*	Dual	*	*	*	*	*
Red LED indicators	*	*	*	*	*	*	*	*	*	*	*	*
Yellow LED indicators												
Green LED indicators	*	*	*	*	*	*	*	*	*	*	*	*
Beeper sounds	*	*	*	*	*	*	*	*	*	*	*	*
Motor Shaking												
Flashlight function	AC-6F				*	*	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*	*	*	*	*	*	*
Low battery self test	*	*	*	*	*	*	*	*	*	*	*	*
Power ON/OFF switch	*	*	*	*	*	*	*	*	*	*	*	*
Switchable audible and silent mode	*	*	*	*	*	*	*	*	*	*	*	*
Rugged, double molded case	*	*	*	*	*	*	*	*	*	*	*	*
CATIII-1000V	*	*	*	*	*	*	*	*	*	*	*	*
Size(HxWxD) mm	135 x 19 x 22				158 x 21 x 25			176 x 22 x 26			135 x 19 x 22	
Weight	45g				48g			50g			55g	

Accessories: Two "AAA" batteries and clamshell





Electrical Testers



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61243  
EN: 61010-3

EN 61010-1  
CAT IV  
600V

EN 61010-1  
CAT III  
1000V

9230 /9231/9232/9233 Series new two-pole voltage and continuity testers are now more rugged and easier to use than ever before.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and visible indicators designed for any work situation.
- Rugged, high-quality construction design includes a heavy duty molded case, a thicker cord with wear indicator, sturdy battery case, and well-fitting and durable probe protector.
- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves) and quick, secure probe docking.
- A complete family of testers with the features, functions, and price/performance to fit your applications and preferences.

AC-8M/AC-9M Magnet Space Testers

GENERAL APPLICATIONS

- Testing operating solenoid valves in pneumatic and hydraulic control equipment
- Testing relays with coils and electrically controlled solenoid valves in all types of vehicles and machineries
- Testing solenoid valves when servicing oil burners, the test lamp lights immediately and without metallic contact where there is a magnetic field, e.g. an activated coil in a solenoid valve. The test lamp responds to all kind of magnetic fields -from alternating current to direct current and to permanent magnets.

Size(HxWxD): 158mm x 21mm x 25mm (AC-8M)

Weight: 34g

Accessories:

Two "AAA" batteries and clamshell



Model AC-8M

Model AC-9M

Features

	9230	9231	9232	9233
Complies with EN 61243-3:2014	*	*	*	*
LED Indication Range: 12 V to 690 V dc and ac	*			
LED Indication Range: 12 V to 1000 V dc and ac		*	*	*
Independent ELV indicator LED, indicates if >50 V ac/120 V dc is present even in the event of no battery power or main circuit failure	*	*	*	*
LCD Indication Range: 6 V to 1000 V dc and ac			*	*
Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)				*
LCD Backlight/Display HOLD: Freeze/unfreeze display with voltage or resistance measurement			*	*
Fixed Impedance ~350 kΩ (≤3.5 mA @ 1000 V)		*	*	*
Switchable Load by 2 pushbuttons (30 mA @ 230 V)		*		*
Vibration During Load (when 2 switchable load pushbuttons are pushed)		*		*
Single-Pole Phase Test (also operates with gloves)		*	*	*
Rotary Field Direction (also operates with gloves)		*	*	*
Continuity Test / Diode Test	*	*	*	*
Flashlight		*	*	*
Beeper for Continuity	*	*	*	*
Beeper for Phase/ACV		*	*	*
19 mm Probe Tip distance when docked	*	*	*	*
CAT III 1000 V / CAT IV 600 V	*	*	*	*
IP64	*	*	*	*

Specifications

		9230	9231	9232	9233
<b>LEDs</b>					
Voltage range	12 V to 690 V ac/dc	*			
	12 V to 1000 V ac/dc		*	*	*
Resolution	±12 V, 24 V, 36V, 50 V, 120 V,230 V, 400 V, 690 V	*			
	±12 V, 24 V, 50 V, 120 V,230 V, 400 V, 690 V, 1000 V		*	*	*
Frequency range	0 / 50 Hz to 60 Hz	*			
	0 / 40 Hz to 400 Hz		*	*	*
Response time	≤0.5 second	*	*	*	*
Auto power on	≥12 V ac/dc	*	*	*	*
<b>LCD</b>					
Voltage range	6V to 1000V ac/dc			*	*
Resolution	±1V			*	*
Tolerance	±(3 % rdg + 5 digits)			*	*
Frequency range	0 / 40 Hz to 400 Hz			*	*
Response time	≤1 second			*	*
Auto power on	≥6 V ac/dc			*	*
Voltage detection	Automatic	*	*	*	*
Polarity detection	Full range	*	*	*	*
Range detection	Automatic	*	*	*	*
Internal basic load impedance Peak current	Maximum 3.5 mA at 690 V 250 kΩ / Is <3.5 mA	*			
	Maximum 3.5 mA at 1000 V 350 kΩ / Is <3.5 mA (no RCD tripping)		*	*	*
Operation time	Duration Time =30 seconds	*	*	*	*
Recovery time	Recovery Time =240 seconds	*	*	*	*
Switchable Load	~7 kΩ		*	*	*
Peak current	Is (load) = 150 mA		*	*	*
RCD tripping	I=30 mA @ 230 V		*	*	*
Continuity Test	0 to 200 kΩ	*			
	0 to 400 kΩ		*	*	*
Accuracy	nominal resistance +50 %	*	*	*	*
Test current	≤5 μA	*	*	*	*
Single-pole Phase Test	100 V ac to 1000 V ac		*	*	*
Frequency range	40 Hz to 60 Hz		*	*	*
Rotary Field Indication			*	*	*
Resistance Measurement	Voltage range (LEDs)	100 V to 1000 V (phase to earth)	*	*	*
	Frequency range	50 Hz to 60 Hz	*	*	*
Resolution	0 Ω to 1999 Ω				*
Tolerance	1 Ω				*
Temperature coefficient	±(5 % rdg +10 digits) @ 20 °C				*
Test current	±5 digits / 10 K				*
	≤30 μA				*

Size(HxWxD): 240mm x 78mm x 30mm Accessories:

Weight: 237g

Two "AAA" batteries, gift box with carrying case



Model 9230

Model 9231



Model 9232

Model 9233



Electrical Testers



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61243  
EN: 61010-3



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61243  
EN: 61010-3



Features

	9330	9331	9332
Complies with EN 61243-3:2014	*	*	*
LED Indication Range: 12 V to 1000 V dc and ac	*	*	*
Independent ELV indicator LED, indicates if >50 V ac/120 V dc is present even in the event of no battery power or main circuit failure	*	*	*
LCD Indication Range: 6 V to 1000 V dc and ac		*	*
Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)		*	*
LCD Backlight Display HOLD: Freeze/unfreeze display with voltage or resistance measurement		*	*
Rugged, Double-Insulated Wire	*	*	*
Fixed Impedance ~300 kΩ (≤3.5 mA @ 1000 V)	*	*	*
Switchable Load by 2 pushbuttons (30 mA @ 230 V)	*	*	*
Single-Pole Phase Test (also operates with gloves)	*	*	*
Rotary Field Direction (also operates with gloves)	*	*	*
Continuity Test / Diode Test	*	*	*
Flashlight	*	*	*
Beeper for Continuity/Phase/ACV	*	*	*
19 mm Probe Tip distance when docked	*	*	*
CAT III 1000 V / CAT IV 600 V	*	*	*
IP64 rating	*	*	*

Specifications

		9330	9331	9332
<b>LEDs</b>				
Voltage range	12 V to 1000 V ac/dc	*	*	
Resolution	±12 V, 24 V, 50 V, 120 V, 230 V, 400 V, 690 V, 1000 V	*	*	
Tolerance	Complies with EN 61243-3:2014	*	*	
Frequency range	0 / 40 Hz to 400 Hz	*	*	
Response time	≤0.5 second	*	*	
Auto power on	≥12 V ac/dc	*	*	
<b>LCD</b>				
Voltage range	6V to 1000V ac/dc		*	*
Resolution	±1V		*	*
Tolerance	±(3 % rdg + 5 digits)		*	*
Frequency range	0 / 40 Hz to 400 Hz		*	*
Response time	≤1 second		*	*
Auto power on	≥6 V ac/dc		*	*
<b>Voltage detection</b>	Automatic	*	*	*
<b>Polarity detection</b>	Full range	*	*	*
<b>Range detection</b>	Automatic	*	*	*
<b>Internal basic load impedance Peak current</b>	Maximum 3.5 mA at 1000 V 300 kΩ / Is <3.5 mA (no RCD tripping)	*	*	*
<b>Operation time</b>	Duration Time =30 seconds	*	*	*
<b>Recovery time</b>	Recovery Time =240 seconds	*	*	*
<b>Switchable Load</b>	~7 kΩ	*	*	*
Peak current	Is (load) = 150 mA	*	*	*
RCD tripping	I=30 mA @ 230 V	*	*	*
<b>Continuity Test</b>	0 to 400 kΩ	*	*	*
Accuracy	nominal resistance +50 %	*	*	*
Test current	≤5 μA	*	*	*
<b>Single-pole Phase Test</b>	100 V ac to 1000 V ac	*	*	*
Frequency range	40 Hz to 60 Hz	*	*	*
<b>Rotary Field Indication</b>		*	*	*
Voltage range (LEDs)	100 V to 1000 V (phase to earth)	*	*	*
Frequency range	50 Hz to 60 Hz	*	*	*
<b>Resistance Measurement</b>	0 Ω to 1999 Ω		*	*
Resolution	1 Ω		*	*
Tolerance	±(5 % rdg +10 digits) @ 20 °C		*	*
Temperature coefficient	±5 digits / 10 K		*	*
Test current	≤30 μA		*	*

Size(HxWxD): 240mm x 73mm x 34mm  
Weight: 237g

Accessories:  
Two "AAA" batteries, gift box with carrying case



Model 9330



Model 9332



Model 9331





9902 & 9903 Electrical Testers provide voltage, continuity with one compact tool. They will be turned on automatically when you place the probe across a complete circuit. So you don't even have to turn them on or off.



Model 9903



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



**Safety Conformance**

Complies with EN 61010-1 for use in CATIII 600V environments



Model 9902

**Features**

	9902	9903
Automatically select VAC, VDC or Continuity test	*	*
1999 counts LCD display		*
Automatically power on and off	*	*
High input impedance	1MΩ	400kΩ
Non-contact voltage detection	9902N	9903N
Low battery indication		*

**Specifications**

Function	9902	9903	Accuracy
Voltage AC	690V	600V	±(3.0%±3d)
Voltage DC	220V	600V	±(1.5%±2d)
Continuity Test	*	*	

**Size(HxWxD):** 9902/9902N : 135mm x 51.5mm x 38.5mm  
9903/9903N : 215mm x 72mm x 36.7mm

**Weight:** 9902/9902N : 182g 9903/9903N : 235g

**Accessories:** Test leads, 2 x "AA" batteries and clamshell.

**DT-9133 Lamp Tester**

Lamp Tester tests HID and fluorescent lamps and has live conductor sensing. This electrical lamp tester has a compact, rugged housing with carrying case (included).

**Specifications**

Live Conductor Indication	60-250VAC, 40-60Hz
Continuity Verification	0-5MΩ (test current: <7μA)
Lamp Tester Voltage	3kV/160kHz (test current: <200μA)
Measurement Category	CAT II 250V

**Size(HxWxD):** 189mm x 26.5mm x 2.6mm  
**Weight:** 60g



**Features**

	9011/9011B	9020/9120	9021/9121	9030/9130
Clear LED indication	*	*	*	
1999 counts LCD display with analog bargraph				*
AC/DC Voltage detection	*	*	*	*
Polarity detection	*	*	*	*
Single-pole phase test			*	
Continuity test			*	*
Rotary field indication			*	*
Low impedance test	*	*	*	*
Flashlight		*	*	*
Voltage function operates without battery	*	*		
IP64	*	*	*	*
Overvoltage class CATIII 1000V/CATIV 600V		*	*	*
VAT self-test button		*/*	*/*	*/*

- Double molded plastic housing
- CAT III 1000V

Model 9030

Bright Flashlight



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61243  
EN: 61010-3 (9030/9130)

- Bright Flashlight
- VAT self-test button



Model 9011

Model 9121



Model 9020



**Specifications**

	9011/9011B	9020/9120	9021/9121	9030/9130
Voltage range (AC/DC)	6,12,24,50,120,230,400V	12,24,36,50,120,230,400V	12,24,36,50,120,230,400V	12,24,36,50,120,230,400V
Tolerance	-30% to 0% of reading	-30% to 0% of reading	-30% to 0% of reading	±1.5%±3D
ACV Frequency range	0~60Hz	0~60Hz	0~60Hz	50/60Hz
Internal impedance	-	<200kΩ/-	<200kΩ/-	≤1MΩ/-

**Size(HxWxD):** 240mm x 78mm x 40mm

**Weight:** 237g

**Accessories:**

Two "AAA" batteries (9021/9030/9121), gift box with carrying case





Model 9018

Model 9019

DT-9016/DT-9017/DT-9018/DT-9019 Electrical Testers provide voltage, continuity with one compact tool. They will be turned on automatically when you place the probe across a complete circuit.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and visible indicators designed for any work situation.
- Uses standard replaceable multi-meter test leads for versatility
- Features built-in test lead holders on the back of the meter

DT-9019H AFCI TEST is an electrical outlet tester that tests for wiring faults in electrical outlets, and also tests AFCI and GFCI Devices.

- Detects the most common wiring faults in standard, AFCI and GFCI electrical outlets
- Test AFCI devices by simulating arc fault conditions
- Test GFCI devices by simulating ground fault conditions
- Capable of detecting a dual-open wiring fault with simultaneous open neutral and open ground wires (patent pending technology)
- Tester delivers clear visual indication of the wiring condition at the electrical outlet



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Features	DT-9016	DT-9017	DT-9018	DT-9019	DT-9019H
Clear LED indication	*	*	*		*
1999 Counts LCD display				*	*
Polarity detection	*	*	*	*	
Test Lead Holders	*	*	*	*	
NCV				*	*
Low impedance	*	*	*		
Flashlight		*	*	*	*
Continuity test		*	*	*	
Phase Rotation Test			*	*	
GFCI Test >5mA					*
AFCI Test					*
Replaceable test leads	*	*	*	*	
Auto-Power Off		*	*	*	*
Overvoltage class CATIV 600V	*	*	*	*	CAIII 135V

Specifications	DT-9016	DT-9017	DT-9018	DT-9019	DT-9019H
<b>Voltage range (AC/DC)</b>	48,120,230,400V	12,24,48,120,208,240,277,480,600V	12,24,48,120,208,240,277,480,600V	6V to 690V	12V to 135V
Tolerance	-30% to 0% of reading	-30% to 0% of reading	-30% to 0% of reading	±(3%+5)	±(3%+5)
Frequency range	0/40Hz to 60Hz	0/40Hz to 400Hz	0/40Hz to 400Hz	0/40Hz to 400Hz	40Hz to 60Hz
Continuity test		<200kΩ	<200kΩ	<200kΩ	
Phase Rotation Test			*	*	
Voltage range				200 to 690V	
Frequency range				50 Hz to 60 Hz	
GFCI Test >5mA					*
AFCI Test					*
RCD 30mA					*
Battery		3x1.5V "AAA"	3x1.5V "AAA"	3x1.5V "AAA"	3x1.5V "AAA"

Size(HxWxD): 158mm x 56mm x 40mm

Weight: 237g

Accessories:

3x1.5V "AAA" batteries (9017/9018/9019/9019H), gift box with carrying case

CT-260(A/B) is a digital circuit breaker finder used to locate the correct circuit breaker in a panel to which an electrical outlet or fixture is connected. The Transmitter is connected to the electrical outlet or fixture in the circuit while the receiver is used to scan the breakers in the circuit panel. The Transmitter also features a GFCI outlet tester.

### Features

Quickly and accurately locate the correct circuit breaker in a panel corresponding to the circuit to which an electrical outlet or fixture is connected  
Receiver delivers clear visual and audible indications when the correct breaker has been located  
Operates on 90-240V AC circuits  
Transmitter incorporates a GFCI outlet tester to inspect the wiring condition at the electrical outlet and test GFCI devices  
Transmitter docks in the Receiver for convenient storage as a single item when tester is not in use  
Transmitter incorporates a three-pin plug  
The transmitter may be connected to other electrical fixtures using optional accessories which are sold separately (CT-260A)  
Receiver powers off automatically after approximately three minutes of non-use to conserve battery life  
Transmitter is powered by the circuit when connected to the electrical outlet or fixture  
Low battery indicator  
Easily accessible battery compartment. Uses one 9V battery in receiver only; Transmitter does not require a battery  
Built to withstand a 6.6-Foot (2 m) drop  
CAT II 300V safety rating

Size(HxWxD): 51mm x 189mm x 34mm (CT-260B)

53mm x 103mm x 33mm (CT-260A)

Weight: 120g (CT-260B), 30g (CT-260A)

### ET-19L GFCI & Receptacle Tester with Voltage Display

Model ET-19L



ET-19L Receptacle Tester is designed to detect the most common wiring problems in standard and GFCI receptacles. Receptacle voltage reading LCD display. A convenient chart on the tester helps determine wiring condition in outlet, based on LED lights results. Conditions indicated: open ground, reverse polarity, open hot, open neutral, hot/ground reversed.

Voltage: 90~240V AC at 50/60Hz in 3-Wire Outlet

Size(HxWxD): 53mm x 103mm x 33mm (ET-19L)

40mm x 85mm x 32mm (ET-1/18)

Weight: 30g



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model CT-260A



Model CT-260B

### ET-17 Standard Receptacle Tester

Model ET-17



ET-17 Receptacle Tester detects the most common wiring problems in standard receptacles. Conditions indicated: wiring correct, open ground, reverse electrical outlet, open hot, open neutral, hot/ground reversed. Conditions not indicated: quality of ground, multiple hot wires, combinations of defects, reversal of grounded and grounding conductors.

Voltage: 90~240V AC at 50/60Hz in 3-Wire Outlet

### ET-18 GFCI and Standard Receptacle Tester

Model ET-18



ET-18 Receptacle Tester is designed to detect the most common wiring problems in standard and GFCI receptacles. A convenient chart on the tester helps determine wiring condition in outlet, based on LED lights results. Conditions indicated: open ground, reverse polarity, open hot, open neutral, hot/ground reversed.

Voltage: 90~240V AC at 50/60Hz in 3-Wire Outlet



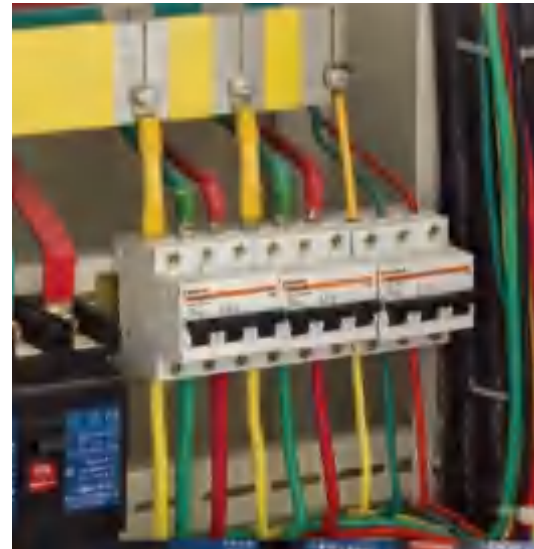
Features
Analog Circuit Breaker Finder
Voltage Range 120/240V
For Use On Energized Lines
LED Display
Visual/Audible indicaton
Function identifies Specific Circuit Breakers or Fuses With A Flashing LED Light and audible tone
Plug-in transmitter allows one person test
Identify And Troubleshoot Energized Outlets Or in candescent light fixture
Includes Transmitter, Receiver, Battery, and Instructions.



Model CT-230A  
Receiver



Model CT-230B  
Transmitter



**CT-240 Digital Circuit Breaker Finder**

Features
Digital Circuit Breaker Finder
Voltage Range 120/240V
For Use on Energized Lines
LED Display
Visual/Audible indicaton
Function identifies Specific Circuit Breakers or Fuses With A Flashing LED Light and audible tone
Identify and Troubleshoot Energized Outlets or in candescent light fixture
Includes Transmitter, Receiver, Battery, and Instructions.

**Size(HxWxD):** 192mm x 64mm x 42mm  
**Weight:** 120g  
**Accessories:**  
9V batteries and clamshell



Model CT-240B  
Transmitter



Model CT-240A  
Receiver

Features
Insulated inductive probe tip prevents shorting conductors
Tests include wire trace, continuity test, clear/busy/ringing line test and tip/ring identification
Alligator clips for non-terminated cables and modular connectors for direct connections to telephone and internet wiring
Selectable continuous or variable tone generation
Built-in speaker on probe with sensitivity control

Specifications	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

Complete with Amplifier probe and Tone Generator with alligator clips and modular RJ11 phone and RJ45 digital connector cables, 9V battery and case  
Tone Generator and Amplifier Probe Kit  
Heavy duty kit with audible tone easily identifies wires or cables

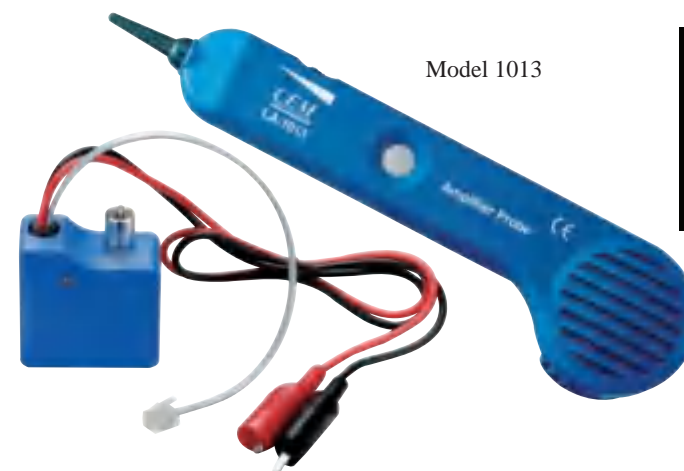
**Size(HxWxD):** 162mm x 74.5mm x 44mm  
**Weight:** 308g  
**Accessories:**  
Test leads, 9V batteries and gift box.



Model 1014



**LA-1013 Amplifier Probe**



Model 1013

Features
Insulated inductive probe tip prevents shorting conductors
Tests include wire trace, continuity test, clear/busy/ringing line test and tip/ring identification
Alligator clips for non-terminated cables and modular connectors for direct connections to telephone and internet wiring
Selectable continuous or variable tone generation
Built-in speaker on probe with sensitivity control



**Size(HxWxD):** 231mm x 56mm x 27mm  
**Weight:** 270g  
**Accessories:**  
9V battery and clamshell



Model 1011



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



The tester is a designed and very practical tester that can easily read the correct pin configuration of 10 Base -T cable(Category 5), 10 Base-2 cable (coax), RJ45/RJ11 modular cables, 356A, TIA-568A/568B and Token Ring cable by comparing one transmitting end to the corresponding receiving end. With the remote kit it can test cables installed far away either on wall plate or patch panel. It is easy to verify the cable continuity, open, short and cross-connect. It is affordable, so you can benefit the most.

- Test the correct pin configuration of 10 Base-T 10 Base-2 Thin Ethernet cable, RJ45/RJ11 modular cables 356A, TIA-568A/568B and Token Ring cable etc.
- With remote kit it can remotely test cables up to 300 m away either on the wall plate or patch panel.
- Test the ground wire
- Measures DC/AC Voltage, DC/AC Current, Resistance, Continuity & diode

#### Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

**Size(HxWxD):** 162mm x 74.5mm x 44mm

**Weight:** 308g

**Accessories:** 9V battery and Two "AAA" batteries, remote terminator, holster, cables, test leads, gift box with carrying case.



#### LA-1015 2 in 1 Cable Identifier & DMM



EMC & LVD  
EN: 50081-1, 50082-1  
EN: 61010-1, EN: 61010-02-032  
EN: 61010-02-033



Model 1015

LA-1015 is a transmitter/receiver device which enables one to instantly match up ends of individual cores at either end of a multi-core cable. With the remote kit it can test cables installed far away either on wall plate or patch panel. DMM function make it easy to measure DC/AC voltage, DC/AC current, Resistance, continuity & diode.

#### Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

#### Transmitter

Display	Two blue LED lamps
Alligators	17 Croc Clips - Red x 16, Black x 1
Cable resistance	10K Ohm max

#### Receiver

Display	Two digit Red LED Display
Alligators	2 Croc Clips - Red x 1, Black x 1

**Size(HxWxD):** 162mm x 74.5mm x 44mm

**Weight:** 308g

**Accessories:** 9V battery and Two "AAA" batteries, remote terminator, holster, cables, test leads, gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



Model 1016

LA-1016 is a satellite finder with scale display and digital multimeter (DMM). It is very good design. Connect a coaxial cable from the LNB/LNBF to the "TOLNB" connection on Satellite Finder. Connect the cable from your satellite receiver to the "TOREC" input on the Satellite Finder. DMM function make it easy to measure DC/AC voltage, DC/AC current, Resistance, continuity & diode.

#### Specifications

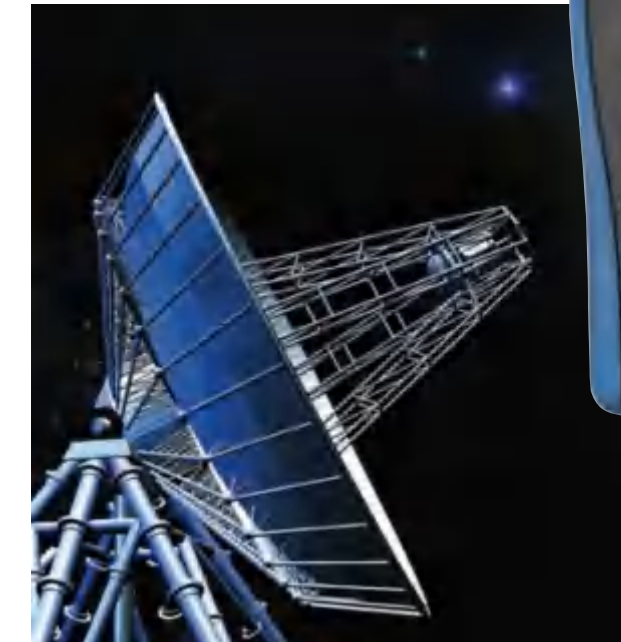
Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

**Size(HxWxD):** 162mm x 74.5mm x 44mm

**Weight:** 308g

#### Accessories:

9V battery & Two "AAA" batteries, remote terminator and gift box with carrying case.



#### LA-1017 Solar Power Meter & DMM

#### Features

Sunlight measurement up to 1999W/m<sup>2</sup> or 634BTU/(ft<sup>2</sup>\*h)  
High accuracy and rapid response  
Data HOLD function to hold measurement values  
Unit and sign display for easy reading  
Measuring unit selection among W/m<sup>2</sup> and BTU/(ft<sup>2</sup>\*h)  
Manual scale selection  
Direct reading with no adjustments needed  
Maximum and minimum values  
Low battery indication

#### Specifications

Function	Max Range	Basic Accuracy
Voltage DC	600V	±0.5%
Voltage AC	600V	±1.2%
Current DC	200mA	±1.5%
Current AC	200mA	±2.0%
Resistance	20MΩ	±0.8%
Continuity Test	Beep if less than 100Ω	

#### Solar Power Meter

Display	3-1/2 digits LCD with maximum reading 1999.
Range	1999W/m <sup>2</sup> , 634BTU/(ft <sup>2</sup> *h)
Resolution	1W/m <sup>2</sup> , 1BTU/(ft <sup>2</sup> *h).
Accuracy	Typically within ±10W/m <sup>2</sup> [±3BTU/(ft <sup>2</sup> *h)] or ±5%
Sampling time	Approx 0.25 second.

**Size(HxWxD):** 162mm x 74.5mm x 44mm

**Weight:** 308g

#### Accessories:

9V battery & Two "AAA" batteries, remote terminator and gift box with carrying case.



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



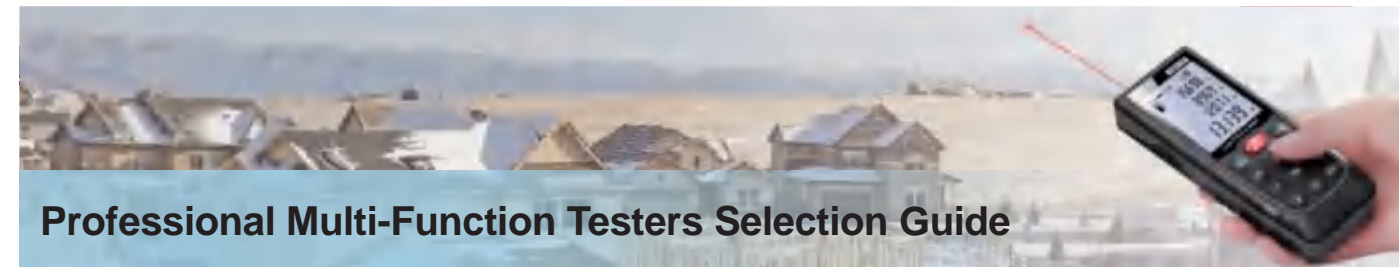
Model 1017



## Professional Multi-Function Testers



CE EMC  
EN: 61326



### Professional Multi-Function Testers Selection Guide



#### Coating Thickness Tester

**DT-159** is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement. Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transferred to PC for edit and storage. The LCD screen can auto-rotate with 0°, 90°, 180°, 270°.



#### Pen-type Laser Distance Meter

**iLDM-30/50/LDM-30/50** Pen-type Laser Distance Meter is designed to use easily as a high-precision measurement tool. New compact design fits in every pocket and safely in places where access difficultly.



#### High Definition Video Borescope

**BS-380** High definition 8" Color TFT LCD, supporting 4MP photo/full HD video, time/date display and multi-languages. Video and images can also be transferred to your PC via the SD Card or USB cable(included). Modern design housing with waterproof (IP67) flexible gooseneck retains configured shape.



#### Cable Length Tester

**CLT-1000** cable length tester features high accuracy and fast reflection, which finds distance to use Time Domain Reflectometry.



#### Colorimeter

**DT-265** Colorimeter is widely used in different industries such as electroplating oxide, plastic cement, printing, paint, weaving and dyeing. It measures the sample color data Lab, Lch, color difference  $\Delta E$  and  $\Delta Lab$  according to CIE color space.



# Professional Coating Thickness Tester



CE EMC  
EN: 61326

Auto-rotatable screen: 0°, 90°, 180°, 270°

159 is a 2.4" TFT color LCD display coating thickness tester with temperature and humidity measurement. Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transferred to PC for edit and storage. The LCD screen can auto-rotate with 0°, 90°, 180°, 270°

### Features

- Non-magnetic coatings(e.g. paint, zinc)on steel
- Insulating coatings(e.g. paint)on no-ferrous metals
- No-ferrous metals coatings on insulating substrates
- 2.4 TFT color LCD display
- Temperature , humidity and Dew point temperature measurement
- Auto-rotatable screen: 0°, 90°, 180°, 270°
- Stability test
- Continuous test
- Set auto power off time.
- SSPC mode
- Limit warning with Beeper and Backlight Flash ,3-Color LED indication
- Menu operation system
- Working modes: DIRECT , GROUP and SSPC mode
- AVG, MAX, MIN, Stand and Deviation(S.DEV) Display
- Basic, One point and SSPC mode calibration
- Error indication
- USB interface
- 10 levels of LCD lighting adjustable
- Language selection: English ,German Italian,French,Chinese,Japanese

### Specifications

	F	N
Sensor probe		
Working principle	magnetic induction	Eddy current principle
Measuring range	0~2000um	0~2000um
Guaranteed tolerance (of reading)	(±2%+2)um	(±2%+2)um
Repeatability	(±1%+1)um	(±1%+1)um
Low range Precision	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm
Temperature range	0 to 50°C/ 32 to 122°F	
Basic accuracy	±1°C/ 1.8°F	
Humidity range	0 to 100%	
Basic accuracy	±3%	

Size(HxWxD): 120mm x 60mm x 40mm

Weight: 120g

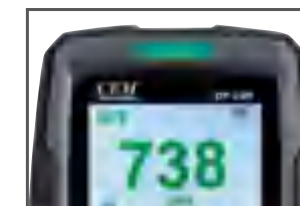
Accessories: 2x1.5V "AA" batteries, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.



CE

EMC  
EN: 61326

Model 159



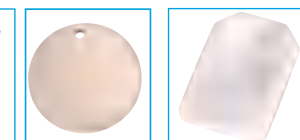
Passing indication



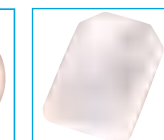
Failed indication



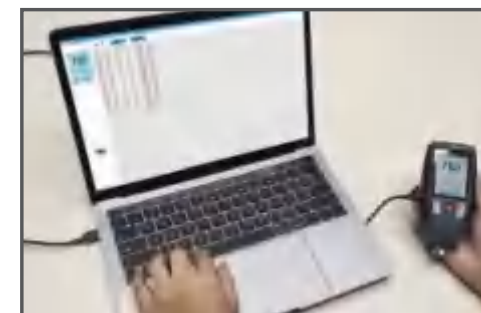
Precision Standard



Calibration Iron



Calibration Aluminum



Auto-rotatable screen: 0°, 90°, 180°, 270°



Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques



CE  
EMC  
EN: 61326



Model 156

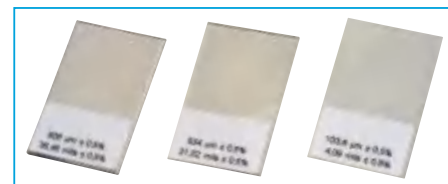
Features	150	156	156H
Non-magnetic coatings(e.g. paint, zinc)on steel	*	*	*
Insulating coatings(e.g. paint)on no-ferrous metals	*	*	*
No-ferrous metals coatings on insulating substrates	*	*	*
Menu operation system		*	*
Two measuring modes: CONTINUE and SINGLE mode		*	*
Two working modes: DIRECT and GROUP mode		*	*
Statistic Display: AVG, MAX, MIN, NO., S.DEV		*	*
One point calibration, two points calibration and basic calibration easily		*	*
Memory for 400 readings(80 DIRECT and 320 GROUP readings)		*	*
Memory for 1500 readings( 30 GROUP readings)		*	*
Delete single readings and all group readings easily		*	*
High alarm and Low alarm for all working modes		*	*
Low battery, error indication		*	*
USB interface for PC software		*	*
4 levels of battery indication		*	*
Error indication		*	*
Easily adapt to lighting conditions with 8 levels of backlight		*	*

Specifications	150	156		156H	
Sensor probe		F	N	F	N
Working principle		Magnetic induction	Eddy current principle	magnetic induction	Eddy current principle
Measuring range	0.0~2.0 mm/ 0~80 mil	0~1250um	0~1250um	0~1350um	0~1350um
Guaranteed tolerance (of reading)	± (2%+0.1)mm/ ± (2%+4)mil	± (3%+1)um	± (3%+1.5)um	± (2.5%+2)um	± (2.5%+2)um
Repeatability		± (1%+1)um	± (1%+1)um	± (1%+1)um	± (1%+1)um
Low range Precision		0.1um	0.1um	0.1um	0.1um
Minimum curvature radius		1.5mm	3mm	1.5mm	3mm
Diameter of Minimum area		7mm	5mm	7mm	5mm
Basic critical thickness		0.5mm	0.3mm	0.5mm	0.3mm



CE  
EMC  
EN: 61326

Model 156H



Precision Standard



Calibration Iron Calibration Aluminum

**Size(HxWxD):** 113.5mm x 54mm x 27mm  
**Weight:** 110g

**Accessories:**  
Two "AAA" batteries, USB cable, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.

Model 150

Dual Technology Features Automatic Selection of Magnetic Induction or Eddy Current Measurement Techniques. The measuring data is easily transferred to PC for edit and storage.

157H provides flexible measurements with extension cable.

CE  
EMC  
EN: 61326



Bluetooth

Made for iPod iPhone iPad



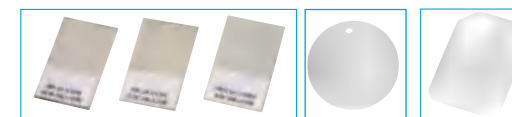
Model 157

Features
Non-magnetic coatings(e.g. paint, zinc)on steel
Insulating coatings(e.g. paint)on no-ferrous metals
No-ferrous metals coatings on insulating substrates
Menu operation system
Two working modes: DIRECT and GROUP mode
Statistic Display: AVG, MAX, MIN, NO., S.DEV
One point calibration, two points calibration and basic calibration easily
Delete single readings and all group readings easily
Low battery, error indication
Memory for 2500 readings( 50 GROUP readings)
4 levels of battery indication
Error indication
Bluetooth interface
Easily adapt to lighting conditions with 8 levels of backlight

Specifications	F	N
Sensor probe		
Working principle	magnetic induction	Eddy current principle
Measuring range	0~2000um	0~2000um
Guaranteed tolerance (of reading)	(+/- 2%+2)um	(+/- 2%+2)um
Repeatability	(+/- 1%+1)um	(+/- 1%+1)um
Low range Precision	0.1um	0.1um
Minimum curvature radius	1.5mm	3mm
Diameter of Minimum area	7mm	5mm
Basic critical thickness	0.5mm	0.3mm

**Size(HxWxD):** 120mm x 60mm x 40mm  
**Weight:** 120g

**Accessories:**Two "AAA" batteries, CD, Calibration Iron, Calibration Aluminum, Precision Standard, gift box with carrying case.



Precision Standard Calibration Iron Calibration Aluminum



**iCTT software**  
for Coating Thickness Tester

Meterbox iCTT - In the worldwide, Meterbox iCTT is the first issue for the coating thickness tester to communicate with the smartphone by bluetooth. Friendly user interface, multifunction scene mode, standard reference data bring a new user experience and make the works relaxed. Meterbox iCTT allows to read the measured real time data by bluetooth, the displayed table and chart can be recorded and analysed. The user can check the history data anytime and manage the measured readings easily by Meterbox iCTT.



The Professional Ultrasonic Thickness Gauge is an innovative instrument that signals a new era in ultrasonic thickness gaging. Ideally suited for almost every ultrasonic thickness application, this handheld thickness gage is fully compatible with a full line of dual and single element transducers. The versatile Professional Ultrasonic Thickness Gauge can be used in applications ranging from wall thinning measurements of internally corroded pipes with dual element probes to very precise thickness measurements of thin or multilayer materials with single element transducers. The Professional Ultrasonic Thickness Gauge comes standard with many powerful but easy-to-use measurement features and a host of application-specific software options. Its sealed case is designed to meet IP67 requirements to withstand the rigors of very wet or dusty environments. The color transfective VGA display provides superior readability from bright sunlight to complete darkness. It features a simple, ergonomic keypad that can be operated with the left or right hand for easy access to all functions.



EMC  
EN: 61326



Model 1580

### Features

Dual and single element transducer compatibility
Wide thickness range: 0.08 mm (0.003 in.) to 635 mm (25 in.) depending on material and transducer selection
Corrosion thickness gaging with dual element transducers
Internal Oxide/Scale software option
Standard resolution of 0.01 mm or 0.001 in. for all transducers
High Resolution software option of 0.001 mm or 0.0001 in. with single element transducers 2.25 MHz to 30 MHz
Multilayer software option for measurements of up to 4 layers simultaneously
High Penetration software option for attenuating materials such as fiberglass, rubber and thick casting
Thickness, Velocity, and time-of-flight measurements
Differential mode and Reduction Rate mode
10,000 reviewable readings per scan

### Specifications

Measurements	Dual element transducer measurement mode	Time interval from a precision delay after the excitation pulse to the first echo
	Through paint measurement mode	Measurement of true metal and coating thicknesses with a single back-wall echo
Measurements	Through paint echo to ech measurement mode	Time interval between two successive back-wall echoes to eliminate paint or coating thickness
	Single element transducer measurement modes	Mode 1: Time interval between the excitation pulse and the first back-wall echo
		Mode 2: Time interval between the delay line echo and the first back-wall echo (with delay or immersion transducers)
Mode 3: Time interval between successive back-wall echoes following the first interface echo after the excitation pulse (with delay line or immersion transducers)		
Measurements	Oxide: optional	
	Multilayer mode: optional	
Thickness range	0.080 mm to 635.00 mm (0.003 in. to 25.000 in.) depending on material, transducer surface conditions, temperature, and selected configuration	
Material velocity range	0.508 mm/μs to 13.998 mm/μs (0.020 in./μs to 0.551 in./μs)	
Resolution (selectable)	Low: 0.1 mm (0.01 in.)	
	Standard: 0.01 mm (0.001 in.) High Resolution (optional): 0.001 mm (0.0001 in.)	
Transducer frequency range	Standard: 2.0 MHz to 30 MHz (-3 dB)	
	High Penetration (optional): 0.50 MHz to 30 MHz (-3 dB)	
Display	4" TFT LCD display	
Power supply	AC/DC adaptor, 24 V; lithium-ion battery 23.760 Wh; or 4 AA auxiliary batteries	

**Size(HxWxD):** 216mm x 100mm x 47mm

**Weight:** 706g

**Accessories:**

3.7V Li battery, USB cable, CD, gift box with carrying case.



CLT-1000 cable length tester features high accuracy and fast reflection, which finds distance to using Time Domain Reflectometry.

### Features

High accuracy and fast reflection.
User friendly menu on screen
Operation for easy-to use
Automatic output impedance control
Auto-Zero and Auto Range
Large TFT Color LCD Display
Auto-Sensitivity allows for closer matching to a wide range of cables under test. Only V.O.P. Settings required
Measuring capability of the V.O.P. of a sample cable
99 internal memory locations store up to 99 traces for future analysis

### Specifications

Minimum Range	pair cable or coaxial cable >5m
	Depends upon the V.O.P of the cables under test.
Maximum Range	3.0km @V.O.P≤99.9%, 2.4km @V.O.P≤80.0%, 2.0km @V.O.P≤66.0%, 1.5km @V.O.P≤50.0%
Range Selection	Automatic range control
Accuracy	± [2% of reading +10cm] < 100m, ± [2% of reading +20cm] ≥100m
Resolution	0.01m < 100m, 0.1m ≥100m
Impedance Selection	Automatic output impedance control
Cable Library	20 standard cable types
Memory Location	99 for custom cable types
Connector Type	BNC, RJ45

**Size(HxWxD):** 152mm x 61mm x 34mm **Weight:** 230g

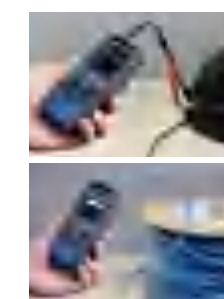
**Accessories:** 2 x AA batteries, USB cable, CD, gift box with carrying case.

High accuracy and fast reflection.

3.0km @V.O.P≤99.9%



EMC  
EN: 61326



Model CLT-1000

### DT-265 Colorimeter

Colorimeter is widely used in different industries such as electroplating oxide, plastic cement, printing, paint, weaving and dyeing. It measures the sample color data Lab, Lch, color difference ΔE and ΔLab according to CIE color space.

### Features

Free Color Management Software
Store 5 standard sample and 1000 reading records
Repeated Accuracy ΔE<0.1
Ergonomic Design
TFT true color 2.0 inch 320x240 LCD display
USB2.0 Full Speed interface
Bluetooth interface BLE4.0
Language selection English/Chinese

### Specifications

Color Space	CIELAB CIELCH CIEXYZ RGB
Color Difference Formula	ΔE*Lab ΔE*Lch
Measurement Caliber	φ8mm
Illumination Condition	45°/diffused illumination
Light Source	D65/RGB LED
Sensor	RGB Silicon Photoelectric diode
Observer	CIE 10°Standard observer
Measurement Interval	1.5Sec
Battery	Li-ion battery, support USB charging, 1000 Measurements
Optional Accessories	Micro Bluetooth printer

**Size(HxWxD):** 150mm x 52mm x 30mm

**Weight:** 300g

**Accessories:**

3.7V Li battery, USB cable, CD, gift box with carrying case.



Model 265



EMC  
EN: 61326

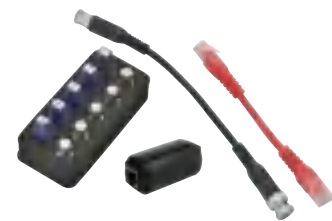




EMC  
EN: 61326  
EN: 60825-1



Model VD-100



The VD-100 is a portable Voice-Data-Video wire tester. It tests and troubleshoots RJ11, RJ12, RJ45, and F-connector terminated cables. The built-in tone can be used to quickly locate cables in wiring closets and patch panels

### Features

Voice:	Tests RJ-11/12 6-wire Cables
Data:	Tests RJ-45 8-wire Cables
Video:	Tests F-Connector Coax Cables
Tone Generator	
Cable Identification	
Shield Detection	
Voltage Warning	
Low Battery Indication	
Auto Power Off	

### Specifications

Maximum Coax Cable Length	1000 feet (305m)
Minimum Cable Length for Split Pair Detection	1.6 feet (0.5m)
Maximum Coax Cable Resistance	100 ohms maximum DC
Maximum Voltage between any two pins without damage	60V DC or 55V AC
Humidity	10% to 90%, non-condensing
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)

**Dimensions:** 152mm x 61mm x 34mm

**Weight:** 230g

#### Accessories:

Two "AA" batteries, gift box with carrying case.

## GPS-200 GPS Land Meter



EMC  
EN: 61326  
EN: 60825-1



The GPS Land Meter is developed by GPS positioning system, high-precision algorithm and other advanced technology. Any earth square and girth can be measured outdoor by GPS Land Meter

### Features

Large TFT color LCD display
Any shape of earth square and girth can be measured (Included upland and slope) .
The length or distance between any two points can be measured
Measuring Mode: Automatic and Manual
Measuring data , graphical traces, total amount of calculation can be showed on the screen.
Set up unit price according to the relative measuring units.
Keep and records 99 historical data and graphical traces. You can scan, find and delete them
Integrated cash detector, flashlight and backlight

### Specifications

Square Measurement	Range	0-999999.99 m <sup>2</sup>
	Measurement Error	1% - 5%
	Display Unit	mu/ sq.m/ ha./ sq.km
Length Measurement	Range	0-999999.99 m
	Measurement Error	1-3m
	Units	meter/ kilometer
Power supply	9V battery	
Continuous working time	8-10 hours	

**Dimensions:** 160mm x 70mm x 38mm

**Weight:** 230g

**Accessories:** 9V battery, gift box with carrying case.



EMC  
EN: 61326  
EN: 60825-1

CCTV Monitor Tester & Cable Tester & Digital Multimeter provides multifunctions as PTZ control, Pan/tilts the P/T unit, zooms in/out the lens, adjusts the focus, aperture and sets and calls the preset position. Check open, short, cross reverse wire map for RJ45 and BNC, trace and locate RJ45 BNC and other metal cables.

### Features

Large TFT color LCD display
Video signal test, NTSC/PAL automatic adaptation
Video Generating, The PAL/NTSC multi-system color bar video generator
Audio input testing and PTZ continuing rotate test.
PTZ control, Pan/tilts the P/T unit, zooms in/out the lens, adjusts the focus, aperture and sets and calls the preset position.
High precision automatic range digital multimeter
Check open, short, cross reverse wire map for RJ45 and BNC
Trace and locate RJ45 BNC and other metal cables.
DC12V power output, it can supply maximum 1A output current for camera
Measure the network cable, coaxial cable length
RS485 protocol test, 2400, 4800, 9600 baud rate selectable
Self-test function can automatically compensate the variation of the battery power, effect of environmental temperature change
Storage , retrieval and memory function
Flashlight function
Low battery indication
Large capacity rechargeable lithium battery

### Specifications

Video Signal Test	Signal Mode: PAL/NTSC automatically suitable
	Analog Video Input
	Video Signal Output
PTZ Control and Test	Through the analysis of synchronous level signal attenuation amplitude
	Independently output 1 channel analog video signal
	Communication: RS485
Digital Multimeter Test	Support more than 20 kinds of Protocols
	Baud Rate: 2400 4800 9600
	DC Voltage: Max 1000V Accuracy 0.1V
Cable Test	AC Voltage: Max 750V Accuracy 0.1V
	DC Current: Max 10A Accuracy 0.1mA
	AC Current: Max 10A Accuracy 0.1mA
Other Function	Resistance: Max 40MΩ Accuracy 0.1Ω
	Diode Polarity Test
	Continuity Test
Other Function	Check open,short,cross reverse wire map for RJ45 and BNC
	Trace and locate RJ45 BNC and other metal cables.
	Measure the RJ45 and BNC Cable length up to 620 meter, with 98% accuracy
Other Function	Measurement of power and attenuation in optical fiber transmission
	Test the RS485 Data sent from controlling device
	1 channel audio signal input to test whether the sound is OK
Other Function	Adjust the screen brightness, contrast, color saturation to adapt different working environment

**Dimensions:** 190mm x 150mm x 48mm

**Weight:** 230g

**Accessories:** rechargeable lithium battery, gift box with carrying case.



Model LA-8000





# Professional Laser Distance Meter of outdoor application

These professional Laser Distance Meters are designed to provide a high accuracy to special users, one person distance measuring and estimating tool to measure remote and difficult reaching places. The "H" series enhanced the measurement ability of outdoor application. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 20 measurements are also stored.



EMC  
EN: 61326  
EN: 60825-1

**strong** Strengthening measurement optimization to adapt to the harsh environment

**precision** High accuracy of  $\pm 1.5\text{mm}$

**fast** Fast measurement of 0.5 seconds

**spirit** Imm measuring perception

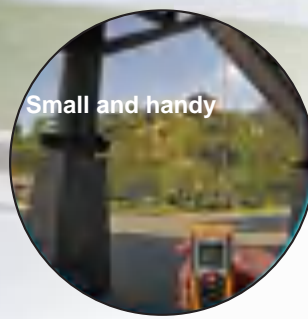
**Distance** Measuring Range up 110m(360.8ft)



Model LDM-100H



Smart function  
Minimum / maximum measurements, tracking and storage of results makes your work much easier.



Small and handy



EMC  
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EN: 60825-1

Model LDM-110H

Model LDM-100H

Model LDM-80H

Model LDM-60H

Model LDM-40H

## Features

	LDM-40H	LDM-50H/ LDM-100	LDM-60H	LDM-70H	LDM-80H	LDM-100H	LDM-110H	LDM-35	LDM-65
Measuring Range	40m(131.2ft)	50m(164.2ft)	60m(196.8ft)	70m(229.6ft)	80m(262.4ft)	100m(328.0ft)	110m(360.8ft)	35m(114ft)	65m(213.2ft)
Area, Volume Calculations	*	*	*	*	*	*	*	*	*
Indirect measurement using Pythagoras	*	*	*	*	*	*	*	*	*
Addition/Subtraction	*	*	*	*	*	*	*	*	*
Continuous Measurement	*	*	*	*	*	*	*	*	*
Min/Max Distance Tracking	*	*	*	*	*	*	*	*	*
Display illumination and multi-line display.	*	*	*	*	*	*	*	*	*
Buzzer indication	*	*	*	*	*	*	*	*	*
The LDM-H series enhanced the measurement ability of outdoor application	*	*	*	*	*	*	*	*	*
$\pm 1.5\text{mm}$ High Accuracy	*	*	*	*	*	*	*	*	*

## Specifications

	LDM-40H	LDM-50H/ LDM-100	LDM-60H	LDM-70H	LDM-80H	LDM-100H	LDM-110H	LDM-35	LDM-65
Measuring Range	0.05 to 40m/ 0.15ft to 131.2ft	0.05 to 50m/ 0.15ft to 164.2ft	0.05 to 60m/ 0.15ft to 196.8ft	0.05 to 70m/ 0.15ft to 229.6ft	0.05 to 80m/ 0.15ft to 262.4ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 110m/ 0.15ft to 360.8ft	0.05 to 35m/ 0.15ft to 114ft	0.05 to 65m/ 0.15ft to 213.2ft
Measuring accuracy(2 $\sigma$ )	Typically: $\pm 1.5\text{mm}(\pm 0.06\text{ in})$								
Smallest unit displayed	1mm								
Measuring units	m,in,ft								
Laser Class	Class II 635 nm, < 1mW								
Dust Protect/Splash proof	IP 54								
History measurement records	20								
Keyboard Type	Super Soft-Touch (Long life)								
Operating Temperature	-10°C to 50°C(14°F to 122°F)								
Storage Temperature	-20°C to 60°C(-4°F to 140°F)								
Battery Life	Up to 4,000 measurements								
Batteries	Type AAA 2 x 1.5V								
Auto. laser switch-off	after 0.5 min								
Auto instrument switch-off	after 3 min								

Size(HxWxD): 115mm x 48mm x 28mm Accessories:

Weight: 135g

2 x 1.5V AAA batteries and gift box with carrying case.





CE  
EMC  
EN: 61326  
EN: 60825-1

Bluetooth  
Made for iPod iPhone iPad



**Features**

- Unit selectable (m, ft, in)
- Area, Volume Calculations
- Continuous Measurement
- Min/Max Distance Tracking
- Bluetooth 4.0 with APP support (iLDM only)
- Reference level selectable
- Water and dust proof
- Display illumination and 3-line display.
- Buzzer indication
- 1.4" TFT with Touch screen (LDM-25 only)

**Specifications**

	LDM-20	LDM-20S	LDM-25
Housing	Plastic	Metal	Plastic
Batteries	2 x 1.5V "AAA"	Li-ion battery	2 x 1.5V "AAA"
Display	2 Lines VA LCD	3 Lines STN	1.4" TFT Touch screen
Measuring Range	0.05 to 20m(0.15ft to 65ft)		
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)		
Smallest unit displayed	1mm		
History measurement records	20		
Measuring units	m,in,ft		
Laser Class	Class II 650 nm, < 1mW		
Dust Protect/Splash proof	IP 54		
Operating Temperature	-10°C to 50°C(14°F to 122°F)		
Storage Temperature	-20°C to 70°C(-4°F to 158°F)		
Battery Life	Up to 5,000 measurements		
Auto. laser switch-off	after 0.5 min		
Auto instrument switch-off	after 3 min		

**Size(HxWxD):** 100mm x 30mm x 22mm Weight: 100g  
80mm x 30mm x 22mm(LDM-20S)  
**Accessories:**  
2 x 1.5V "AAA" batteries and gift box with carrying case.



Model iLDM-20



Model LDM-20S



Model LDM-25



Touch screen



CE  
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EN: 61326  
EN: 60825-1

iLDM-30/50/LDM-30/50 Pen-type Laser Distance Meters are designed to use easily as a high-precision measurement tool. New compact design fits in every pocket and safely in places where access difficultly.

**Features**

	iLDM-30	iLDM-50	LDM-30	LDM-50
Bluetooth 4.0 with APP support	*	*		
Built-in level vial		*		*
Unit selectable (m, ft, in)	*	*	*	*
Area, Volume Calculations	*	*	*	*
Continuous Measurement	*	*	*	*
Min/Max Distance Tracking	*	*	*	*
Reference level selectable	*	*	*	*
Water and dust proof	*	*	*	*
Display illumination and 3-line display.	*	*	*	*
Buzzer indication	*	*	*	*

**Specifications**

iLDM-30/LDM-30 Measuring Range	0.05 to 30m(0.15ft to 98ft)
iLDM-50/LDM-50 Measuring Range	0.05 to 50m(0.15ft to 164ft)
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)
Smallest unit displayed	1mm
History measurement records	20
Measuring units	m,in,ft
Laser Class	Class II 635 nm, < 1mW
Dust Protect/Splash proof	IP 54
Operating Temperature	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)
Battery Life	Up to 5,000 measurements
Batteries	Type AAA 2 x 1.5V
Auto. laser switch-off	after 0.5 min
Auto instrument switch-off	after 3 min

**Size(HxWxD):** 136mm x 33mm x 26mm  
**Weight:** 130g



Model LDM-50



## Meterbox pro Software for Laser Distance Meter

Bluetooth

### Amazing features and built-in apps.

The Meterbox-iLDM software can support our Laser Distance Meter product transferring the measured data to the customer's smartphone. Customers can easily use the software to check, transfer or edit the data with table and chart. They also have powerful cloud functions such as computing and storage service.



Meterbox pro



More Applications...



Model iLDM-30





Model LDM-40B      Model LDM-60B      Model LDM-80B      Model LDM-100B      Model LDM-120B

**Features**

	LDM-40B	LDM-60B	LDM-80B	LDM-100B	LDM-120B
Measuring Range	40m(131.2ft)	60m(196.8ft)	80m(262.4ft)	100m(328.0ft)	120m(393.7ft)
Area, Volume Calculations	*	*	*	*	*
Indirect measurement using Pythagoras	*	*	*	*	*
Addition/Subtraction	*	*	*	*	*
Continuous Measurement	*	*	*	*	*
Min/Max Distance Tracking	*	*	*	*	*
Display illumination and multi-line display.	*	*	*	*	*
Buzzer indication	*	*	*	*	*
±1.5mm High Accuracy	*	*	*	*	*

The LDM-B series enhanced the measurement ability of outdoor application( with 2x1.5V AA battery)

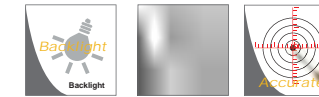
The LDM-C series are with 3.7V Li battery, the LDM-I series are with Bluetooth.

**Specifications**

	LDM-40B	LDM-60B	LDM-80B	LDM-100B	LDM-120B
Measuring Range	0.05 to 40m/ 0.15ft to 131.2ft	0.05 to 60m/ 0.15ft to 196.8ft	0.05 to 80m/ 0.15ft to 262.4ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 120m/ 0.15ft to 393.7ft
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06 in)				
Smallest unit displayed	1mm				
Measuring units	m,in,ft				
Laser Class	Class II 635 nm, < 1mW				
Dust Protect/Splash proof	IP 54				
History measurement records	20				
Keyboard Type	Super Soft-Touch (Long life)				
Operating Temperature	-10°C to 50°C(14°F to 122°F)				
Storage Temperature	-20°C to 60°C(-4°F to 140°F)				
Battery Life	Up to 4,000 measurements				
Batteries	Type AAA 2 x 1.5V				
Auto. laser switch-off	after 0.5 min				
Auto instrument switch-off	after 3 min				

**Size(HxWxD):** 115mm x 48mm x 28mm  
**Weight:** 135g

**Accessories:**  
2 x 1.5V AAA batteries and gift box with carrying case.



EMC  
EN: 61326  
EN: 60825-1



Meterbox pro



**Features**

	LDM-300	LDM-350	LDM-380
3.5" TFT Color LCD display	*	*	*
Built-in camera			*
Images(JPEG) & Video(3GP)			*
MicroSD memory card & datalogger function			*
Electrical compass		*	*
Angle measurement using tilt sensor(± 90°)		*	*
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Timer (self-triggering)	*	*	*
Laser continuous	*	*	*
Stake out function	*	*	*
Display illumination and multi-line display.	*	*	*
Buzzer indication	*	*	*
Multifunctional end pieces	*	*	*
Bluetooth interface	*	*	*
Meterbox iLDM & cloud service	*	*	*

**Specifications**

	LDM-300	LDM-350	LDM-380
Measuring Range	0.05 to 100 m(0.15 ft to 328 ft)	0.05 to 150m(0.15ft to 492ft)	0.05 to 200m(0.15ft to 656ft)
Measuring accuracy(2σ)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635 nm, < 1mW	Class II 635nm,<1mW
Bluetooth distance	10m	10m	10m
Camera pixels			5Mega
Compass Measuring range		0-360°	0-360°
Compass Measuring accuracy		± 2°	± 2°
Tilt sensor Measuring range	± 90°	± 90°	± 90°
Tilt sensor Measuring accuracy	± 0.5°	± 0.5°	± 0.5°
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	99	99	99
Keyboard Type	Super Soft-Touch (Long life)	Super Soft-Touch (Long life)	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)
Battery	3x 1.5V "AAA"	3x 1.5V "AAA"	Li-ion Battery
Battery Life	Up to 8,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements
Auto laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto Power off	after 3 min	after 3 min	after 3 min



**Size(HxWxD):** 142mm x 62mm x 32mm  
**Weight:** 191g



Model LDM-300



Model LDM-380



# Professional Laser Distance Meter of outdoor application

iLDM-150 with Meterbox-iLDM Pro Software supports our laser distance meter transferring the measured data to the customer's smartphone.

**Four application mode:**

- family decorating
- Construction and acceptance
- Traffic survey
- Normal distance measuring

**Software Functions:**

- Distance measuring data transferred to Cloud
- Edit, analysis & Store the distance data
- Connecting with iPhone/iPod/iPad/Android Phone/ Android Pad
- Sharing the data with others by E-mail, facebook & twitter
- Trend capture
- Cloud backup

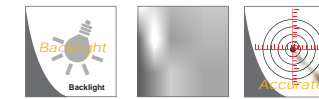
- Strong** — Strengthening measurement optimization to adapt to the harsh environment
- Precision** — High accuracy of ±1.5mm
- Fast** — Fast measurement of 0.5 seconds
- Spirit** — 1mm measuring perception
- Distance** — Measuring Range up to 160m(524.9ft)



EMC  
EN: 61326  
EN: 60825-1



Meterbox pro



EMC  
EN: 61326  
EN: 60825-1

Worldwide Patent:  
PCT/CN2012/081593

These professional Laser Distance Meters are designed to give special users a high accuracy, one person distance measuring and estimating tool to measure remote and difficult reaching places. The LDM-H series enhanced the measurement ability of outdoor application. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 20 measurements are also stored.

**Features**

- Area, Volume Calculations
- Indirect measurement using Pythagoras
- Indirect measurement using tilt sensor
- Angle measurement using tilt sensor(± 90°)
- Addition/Subtraction
- Continuous Measurement & Timer (self-triggering)
- Min/Max Distance Tracking
- Laser continuous
- Stake out function
- Display illumination and multi-line display
- Multifunctional endpiece
- Tripod thread
- Bluetooth with APP support
- Meterbox iLDM & cloud service



Model iLDM-160H



Model iLDM-150H



Model iLDM-120H



Model iLDM-100H

**Specifications**

	iLDM-150	iLDM-100H	iLDM-120H	iLDM-150H	iLDM-160H
Measuring Range	0.05 to 70 m/ 0.15 ft to 229 ft	0.05 to 100m/ 0.15ft to 328.0ft	0.05 to 120m/ 0.15ft to 393.7ft	0.05 to 150m/ 0.15ft to 492.1ft	0.05 to 160m/ 0.15ft to 524.9ft
<b>Basic Specifications</b>					
Measuring accuracy(2σ): Typically: ±1.5 mm(± 0.06 in);			Smallest unit displayed: 1mm		
Measuring units: m,in,ft			Laser Class: Class II 635 nm < 1mW		
Tilt sensor Measuring range: ± 65°			Range of bluetooth: 10m		
Dust Protect/Splash proof: IP 54			History measurement records: 99		
Keyboard Type: Super Soft-Touch (Long life)			Battery Life: Up to 8,000 measurements		
Auto laser switch-off: after 30 seconds			Auto instrument switch-off: after 3 min		

**Size(HxWxD):** 135mm x 58mm x 33mm **Accessories:** 2 x 1.5V AA batteries and gift box with carrying case.  
**Weight:** 203g

**LDM-600/1000/1200/1500 Laser range telescope**

**Specifications**

	LDM-600	LDM-1000	LDM-1200	LDM-1500
Measuring Range	3 to 600 m	3 to 1000m	3 to 1200m	3 to 1500m
Measuring accuracy(2σ)	Typically: ±1m			
Measuring units	m,ft			
Laser Class	Class I			
Smallest unit displayed	1m			
Dust Protect/Splash proof	IP 54			
Operating Temperature	-10°C to 50°C(14°F to 122°F)			
Storage Temperature	-20°C to 60°C(-4°F to 140°F)			
Battery Life	Up to 3000 measurements			
Batteries	Li-on			
Auto laser switch-off	after 30 seconds			
Auto power off	after 3 min			

**Size(HxWxD):** 115mm x 75mm x 40mm **Accessories:** 2 x 1.5V AA batteries and gift box with carrying case.  
**Weight:** 203g



EMC  
EN: 61326  
EN: 60825-1







LDM-180/200/220 professional Laser Distance Meters are integrated with 2.4" color TFT LCD display, and the powerful embedded operating system, The series offer Bluetooth interface with computer or mobile phone connection, you can use meterbox software provided by CEM to interact with these range finders. The user can be back with measured data and recorded images(JPEG) or video(3GP) in office to analyze the measured readings under the support of the software.

Meterbox iLDM software & cloud server support to transfer the measured data to the customer's smartphone for edit and storage.



EMC  
EN: 61326  
EN: 60825-1



Model LDM-180



Model LDM-200



Features	LDM-180	LDM-200	LDM-220
2.4" TFT 320x240 pixels color LCD display		*	*
Build-in Telescope			*
Electrical compass		*	*
Angle measurement using tilt sensor(± 65°)		*	*
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Timer (self-triggering)	*	*	*
Laser continuous	*	*	*
Stake out function	*	*	*
Display illumination and multi-line display.	*	*	*
Buzzer indication	*	*	*
Multifunctional end pieces	*	*	*
Bluetooth interface	*	*	*
Meterbox iLDM & cloud service	*	*	*

Specifications	LDM-180	LDM-200	LDM-220
Measuring Range	0.05 to 80 m/ 0.15 ft to 229 ft	0.05 to 100m/ 0.15ft to 328ft	0.05 to 120m/ 0.15ft to 328ft
Measuring accuracy(2σ)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635 nm, < 1mW	Class II 635nm,<1mW
Range of bluetooth	10m	10m	10m
Camera pixels			5Mega
Compass Measuring range		0-360°	0-360°
Compass Measuring accuracy		± 2°	± 2°
Tilt sensor Measuring range	± 65°	± 65°	± 65°
Tilt sensor Measuring accuracy		± 0.5°	± 0.5°
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	50	100	100
Keyboard Type	Super Soft-Touch (Long life)	Super Soft-Touch (Long life)	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C/ 14°F to 122°F	-10°C to 50°C/ 14°F to 122°F	-10°C to 50°C/ 14°F to 122°F
Battery Life	Up to 8,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements
Auto laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto instrument switch-off	after 3 min	after 3 min	after 3 min

Size(HxWxD): 140mm x 55mm x 35mm  
Weight: 145g

Accessories:  
2 x 1.5V AA batteries and gift box with carrying case.



**Meterbox pro Software  
for Laser Distance Meter  
Amazing features and built-in apps.**

Meterbox Pro

The Meterbox-iLDM software can support our Laser Distance Meter product transferring the measured data to the customer's smartphone. Customers can easily use the software to check, transfer or edit the data with table and chart.

They also have powerful cloud functions such as computing and storage service.

Accurate measurement  
up to 80m (LDM-80S/iLDM-80S)

These professional Laser Distance Meters are designed to provide special users a high accuracy, one person distance measuring and estimating tool to measure remote and difficult to reach. The compact and handheld design for indoor applications. Shortcut keys for addition, subtraction, Pythagoras, area and volume calculation make measuring fast and very reliable. The last 50 measurements are also stored.

The iLDM series offer Bluetooth interface with computer or mobile phone connection, you can use meterbox software provided by CEM to interact with these range finders.



EMC  
EN: 61326  
EN: 60825-1

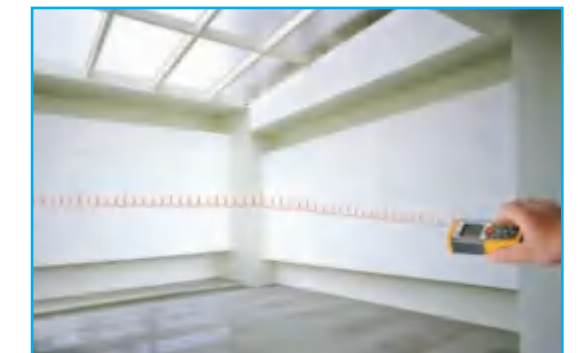


Model LDM-65S



Model iLDM-80S

Features	LDM-280H	LDM-65S	LDM-80S
Area, Volume Calculations	*	*	*
Indirect measurement using Pythagoras	*	*	*
Angle measurement using tilt sensor(± 90°)	*	*	*
Addition/Subtraction	*	*	*
Continuous Measurement	*	*	*
Min/Max Distance Tracking	*	*	*
Display illumination and 4-line display.	*	*	*
Buzzer indication	*	*	*
Bluetooth interface	iLDM-280H	iLDM-65S	iLDM-80S



**Simple to operate**  
Due to the shortcut keys addition and subtraction, as well as surface and volume calculations could be easier.



Model LDM-280H

Specifications	LDM-280H/ iLDM-280H	LDM-65S/iLDM-65S	LDM-80S/iLDM-80S
Measuring Range	0.05 to 80m(0.15ft to 262ft)	0.05 to 65m(0.15ft to 213ft)	0.05 to 80m(0.15ft to 262ft)
Measuring accuracy(2σ)	Typically: ±1.5mm(±0.06in)	Typically: ±1.5 mm(± 0.06 in)	Typically: ±1.5 mm(± 0.06 in)
Smallest unit displayed	1mm	1mm	1mm
Measuring units	m,in,ft	m,in,ft	m,in,ft
Laser Class	Class II 635 nm, < 1mW	Class II 635nm,<1mW	Class II 635nm,<1mW
Dust Protect/Splash proof	IP 54	IP 54	IP 54
History measurement records	99	99	99
Tilt sensor Measuring range		± 65°	± 65°
Tilt sensor Measuring accuracy		± 0.5°	± 0.5°
Keyboard Type	Soft-Touch Keypad	Soft-Touch Keypad	Soft-Touch Keypad
Operating Temperature	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)	-10°C to 50°C(14°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)	-20°C to 70°C(-4°F to 158°F)
Battery Life	Up to 4,000 measurements	Up to 4,000 measurements	Up to 4,000 measurements
Batteries	Type AAA 2 x 1.5V	Type AAA 2 x 1.5V	Type AAA 2 x 1.5V
Auto. laser switch-off	after 0.5 min	after 0.5 min	after 0.5 min
Auto power off	after 3 min	after 3 min	after 3 min

Size(HxWxD): 115mm x 54mm x 32mm  
Weight: 145g  
Accessories:  
2 x 1.5V AAA batteries and gift box with carrying case.




 EMC  
 EN: 61326

LA-101 uses electronic signals to locate the edges of studs, joists or live AC wires through drywall or other common building materials. Depth detection selected by activation button for 1/2 inch, 1 inch and 1 1/2 inch. Once LA-101 displays red LED and sounds an audible tone.

**Specifications**

	Range
Wood or Metal Studs	0~ 1 1/2 " (38mm)
Live AC Wires	0~ 2 " (50mm)
Wood	±1/8 " (3mm)
Metal	±1/4 " (6mm)
Operating Temp	0°C~40°C
Surface Temp	-20°C~60°C
Power Source	9V

**Size(HxWxD):** 145mm x 60mm x 28mm

**Weight:** 150g

**Accessories:** 9V battery, gift box with carrying case.

Model LA-101

**LA-1010 3 in 1 Stud/Metal/AC Voltage Finder**
**Features and Benefits**

- Laser leveling, layout and stud locating on vertical and horizontal surfaces
- wood, metal and live wire detection-detects wood up to 3/4" depth
- 180 degree pivoting laser plane with level and plumb vials
- 20' laser line projection onto work surface with 90 degree squaring
- Two self contained hang pins to mount unit to work surface (vertical or horizontal)
- LCD sensing and mode display with new target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for leveling the laser
- Easy keypad operation
- Ergonomically designed for comfort and grip
- Requires 9V battery

**Size(HxWxD):** 180mm x 67mm x 38mm

**Weight:** 180g

**Accessories:** 9V battery, gift box with carrying case.

 EMC  
 EN: 61326


Model LA-1010

**DM-01 Ultrasonic Distance Meter**


Model DM-01


 EMC  
 EN: 61326

DM-01 Ultrasonic Distance Meter with Laser Target Pointer. The device has 5 memory units. Those data will be still stored even if power off.

**Specifications**

Measuring range	0.5 ~ 16m (1.64 ~ 52.48 feet)
Accuracy	+/-0.4 within 6m (20 feet) and +/-0.8 above 6m
Conditions	0 ~ 40°C, 45% ~ 90%RH
Power supply	9V battery
Current consumption	Stand-by current:<=2 Ua; Operating current:20~50mA
Auto shut-off	120 seconds

**Size(HxWxD):** 154mm x 61mm x 46mm

**Weight:** 190g

**Accessories:** 9V battery, gift box with carrying case.


1500 Concrete Scanner Provides a real-time view of the inside of concrete structures and generates true images automatically for direct on-site evaluation of scan data by the user - no expert skills required. There are three scan modes for specific applications: Quickscan detection, Quickscan recording and Imagescan. It is also suited for determining where to place measuring spots or drill holes in ceiling with wooden beams, light-construction walls, underfloor heating systems etc.

**Features**

- A real-time view of the inside of concrete structures and generates true images automatically for direct on-site evaluation of scan data by the user - no expert skills required
- Three scan modes for specific applications: Quickscan detection, Quickscan recording and Imagescan (2-D and 3-D data visualization with top view and cross sectional views)
- Compact all-in-one hand-held design offers easy, user-friendly operation, quick start-up for speed of use plus unmatched data visualization
- Displays a top view of the scan for easy object mapping plus cross sections in both directions for easy identification of multiple layers in concrete structures
- Powerful monitor unit for in-depth, on-site scan analysis plus PC software for subsequent data evaluation and documentation

**Specifications**

- Detection depth: <150 mm
- Accuracy of depth indication: <100 mm: ±10 mm;>100 mm: ±15 %
- Localisation accuracy: ±10 mm
- Minimum distance between two neighbouring objects: 40 mm

**Applications**

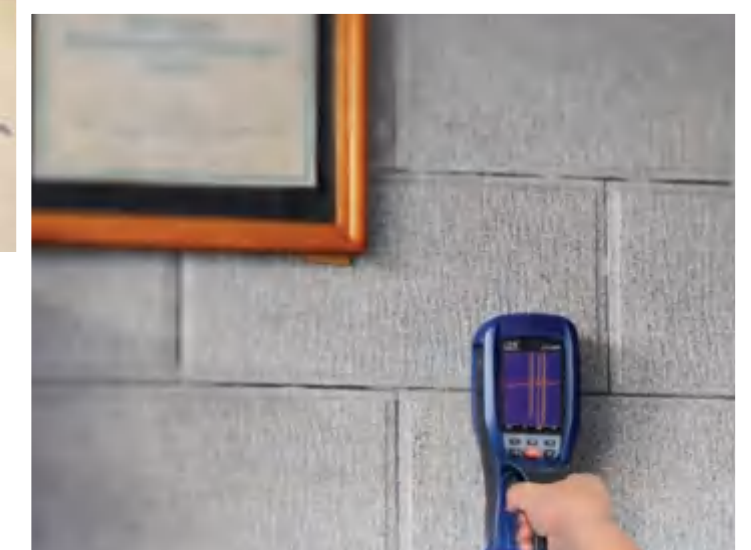
- Locating rebars, tendons, metal and plastic conducts, glass-fibre cables, voids and wood in dry concrete structures at depths of up to 150 mm
- Minimizes the risk of hitting concealed objects when drilling anchor holes or through holes, breaking out openings and in diamond coring and sawing work
- Rebar extension (post-installed rebar connections) in structural applications
- Inspection of floors, decks, slabs, balconies, etc. in structures such as tunnels, bridges and buildings
- Detection of voids and cavities

**Size(HxWxD):** 280mm x 130mm x 180mm

**Weight:** 2.3kg

**Accessories:** 3.7V Li battery, power adaptor, gift box with carrying case.


Model 1500


 EMC  
 EN: 61326




# EVSE Test Adapter Kit for Electric Vehicle Charging Stations



Get access to the socket-outlets of a charging station to perform safety and functional tests, while simulate presence of an electrical vehicle



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033



EVC -200 -Connector



EVC -100 -Connector

The EVSE-200 is an extender for interfacing Electric Vehicle Supply Equipment (EVSE) to test socket of installation tester for verification of electrical safety and functional testing. It is intended for testing Mode 3 EV supply equipment with type 2 connector.

The ESVE-200 adapter allows you to conduct tests in combination with appropriate test instruments like an installation tester (for example DT-6650 Series).

**Functions**

- PE Pre-Test: With this safety feature the PE conductor can be tested for possible presence of dangerous voltage against earth.
- Proximity Pilot (PP) state "Cable Simulation": With PP State rotary switch the adapter can simulate various current capabilities of charging cables.
- Control Pilot (CP) state "Vehicle Simulation": With CP State rotary switch selector various charging states can be simulated.
- Simulation of CP error "E"
- Simulation of PE error (Earth fault)
- Simulation of PE error (Earth fault)

**Product information**

- Suitable to vehicle charging stations with charging mode 3
  - EV-connectors for type 2 and type 1
  - Measuring terminals L1, L2, L3, N and PE to connect test device like installation tester to perform safety and functional tests.
  - Terminals for CP signal output to check communication between adapter (=simulated electrical vehicle) and charging station.
- Product highlights**
- Separate phase indication by three LED lamps for easy check if voltage is present.
  - Mains socket offering the possibility to connect an external load to check if the electric power meter works and counts in the right manner.
  - IP 54 rating - Dust and splashing water protected

**Technical specifications**

Input	Max.250V (single -phase system)/max.430V (three -phase system).50 /60HZ,MAX 10	
EVC -200 -Connector	AC charging mode 3. Suitable for type 2 wall top contact or fixed cable with vehicle connection (type 2, 7P operational phase)	
EVC -100 -Connector	AC charging mode 3. Suitable for type 1 with vehicle connection (Type 1,5P single -phase)	
Dimensions(B*H*L)	235*60*60mm(length without connecting cable)	
Weight	832g(Weight without connecting cable)	
IP protection	IP54	
Safety	IEC/EN 61010-1 IEC61010-2	
Overvoltage category	CAT II 300V	
Pollution degree	2	
Protection classification	double insulation	
Altitude	up to 2000 meters above sea level	
Working temperature range	0°C...40°C	
Maximum relative humidity	95 %RH (0°C...40°C), non-condensing	
Storage temperature range	-10°C...50°C	
Maximum relative humidity	90 %RH ( -10°C...40°C) 80 %RH (40°C...60°C)	
PE pre-test	yes	
PP simulation	open(Error condition or disconnection of plug)	
	13A	Coding for maximum current of the EV cable.
	20A	
	32A	EVSE is connected and can operate in any of these coding position.
CP simulation	63A	
	states A ( EV disconnected )	
	states B ( EV connected )	
	states C ( EV charged without ventilation )	
CP error"E"	states D ( EV charged with ventilation )	
	on(CP short to PE via diode)/off	
PE error	on (PE error)/off	

Size(HxWxD): 208mm x 105mm x50mm  
Weight: 832g



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

Model EVSE-200





# High Definition Video Borescope

Meterbox iScope

WiFi

Model BS-183W

Model BS-380

CE  
EMC  
EN: 61326

360°

Inspection Camera with Wireless Handset & 6mm Semi-Rigid Cable, Articulating (360°) Probe (1m)

High definition 8" Color TFT LCD, supporting 4MP photo/full HD video, time/date display and multi-languages. Video and images can also be transferred to your PC via the SD Card or USB cable (included). Modern design housing with waterproof (IP67) flexible gooseneck retains configured shape.



**Features:**

- 8" color LCD TFT with high definition 800x600 resolution
- Compact, high-resolution water-proof camera probe
- Camera head with four built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- SD memory card is included to store more than 14,600 images
- Video recording (up to 2 hours) with voice annotation
- AV output for viewing images and video directly on a monitor
- Video and images can be transferred to PC via the SD card or USB output

**System Specifications**

LCD screen type	8" 800x600 TFT LCD + TP
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Digital zoom	5.0x
Image resolution	2592x1944 (Postposition) / 1280x720
Video Resolution	1920x1080(Postposition) / 1280x720
Function	Photo, Video, Brightness Adjustment, Menu, Image Zoom, Image rotation
Interface	SD, mini USB, HDMI, Charging interface
Battery	Li-Ion 3.7V 2200mAh
<b>Camera Specifications</b>	
Camera diameter	Ø5.5mm
Binocular insertion tube	Direct and lateral vision
Pixel	1 Megapixels
Viewing direction	5mm-180mm
Viewing angle	68°
Lighting type	6 LED with adjustable brightness
Gooseneck length	1m/1.5m

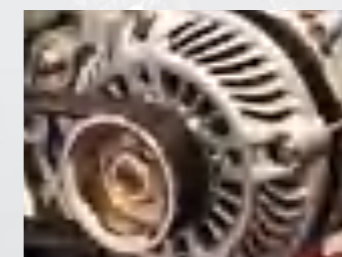
**Specifications (BS-183W)**

Camera diameter	6mm(0.217")
Camera Pixels	1280x720
Max number of frames(FPS)	30fps/s
Gooseneck length	1m(39")
Viewing distance	5cm
Fov	55°
Operator's lever control	360° manual shake of head
Shaking head locking	Locking, Slow Speed
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Wi-Fi Support system	iOS, Android
Lighting type	6 LED with adjustable brightness
Working voltage	Li Battery 3.7V/1400mA
Wired connections	Yes

**Size(HxWxD):** 240mm x 160mm x 100mm

**Weight:** 584g

**Accessories:** 3.7V Li battery, power adaptor, mirror, hook, USB cable, AV cable, SD memory card, magnet, gift box with carrying case.



Features a 7" (177.8mm) high definition color LCD monitor



Camera Tip features built-in LED lights







BS-400 Portable industrial endoscope is only used for real-time detection and analysis of industrial field equipment. It has direct visual characteristics and can directly observe whether there are defects or abnormalities on the inner surface of large devices such as pipes, turbines, cylinders, engines and so on. In addition, real-time photography and video recording can be carried out to provide indispensable data acquisition for the analysis of equipment usage and equipment production guarantee.



Model BS-400

**Features:**

- Stereoscopic measurement
- 5" color LCD TFT with high definition 640x480 resolution
- Compact, high-resolution water-proof camera probe
- Camera head with four built-in bright LED lamps with dimmer to illuminate viewed object
- Glare-free close-up field of view
- SD memory card included to store more than 14,600 images
- Video recording (up to 5 hours) with voice annotation
- HDMI output for viewing images and video directly on a monitor
- Video and images can be transferred to PC via the SD card or USB output
- Includes SD card, 12V rechargeable Li-Polymer battery, patch cable, AC adaptor, USB cables, camera probe, and hard carrying case

**System Specifications**

	BS-400	BS-400A	BS-400B
LCD screen type	5" 640x480 TFT LCD		
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n		
Wi-Fi Support system	iOS, Android		
Operator's lever control	none	360° electric rocker	360° electric rocker
Digital zoom	5.0x		
Image rotation	90°	360°	360°
Image resolution	2592x1944	1280x720	1280x720 (Binocular)
Video Resolution	1920x1080	1280x720	1280x720 (Binocular)
Function	Photo, Video, Brightness Adjustment, Menu, Image Zoom, Wi-Fi Transmission		
Interface	SD, mini USB, HDMI, Headset		
Battery	Li-Ion 12V 2.5A		

**Stereoscopic measurement specifications**

Distance	none	Distance between two points
Point to line	none	Vertical distance between point and custom
Depth	none	Point direct lying depth/height to custom plane
Area / line	none	Perimeter and area of multiple points
Effective measurement range	none	8mm~80mm
Measurement accuracy	none	0.1~0.2mm

**Camera Specifications**

Camera diameter	Ø5.5mm/ Ø6mm/8mm/17mm
Pixel	5 Megapixels (17mm)/1 Megapixels
Viewing direction	5mm~180mm/5cm~15cm
Viewing angle	90°/ 68°
Lighting type	6 LED with adjustable brightness
Gooseneck length	1m/1.5m

**Size(HxWxD):** 240mm x 160mm x 100mm

**Weight:** 584g

**Accessories:** 3.7V Li battery, power adaptor, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.



Features a 4" high definition color LCD monitor



High definition 3.5" Color TFT LCD, supporting photo/video, time/date display and multi-languages. Video and images can also be transferred to your PC via the SD Card or USB cable(included). Modern design housing with waterproof(IP67) flexible gooseneck retains configured shape.

- 3.5" Color TFT LCD
- Flexible gooseneck imager head with waterproof and Easily perform visual inspections in hard to reach areas
- Camera and Video function
- Compatible with TV(TV-OUT)
- Allows user to view image on LCD monitor
- High visibility and 10 degree adjustable LED lighting
- Rechargeable battery with USB cable
- Support SD memory card extension
- Menu with multinational language

**Specifications**

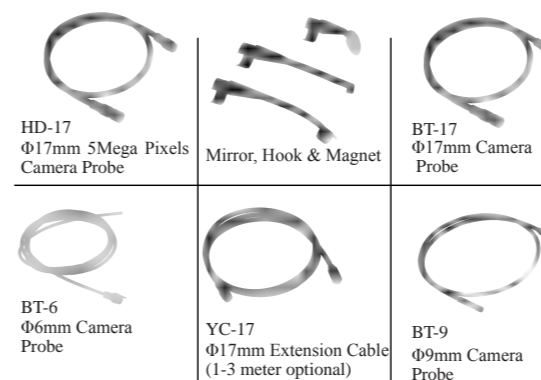
	BS-280	BS-280W	BS-288
LCD screen type	3.5" TFT		
LCD Pixels	320x240		
The max number of frames(FPS)	30FPS		30Hz
Picture format from the camera	JPG(640x480)	JPG(640x480/2592x1944)	120 x 90 (InfrarRed resolution)
Camera video format	MP4/AVI (640x480)	MP4/AVI(640x480/720p)	120 x 90 (InfrarRed resolution)
Thermal sensitivity	<60 mk		
Temperature range	-20°C to 120°C		
Area	3 boxes with max. /min. /average		
Color palettes	GRAY/IRON		
Auto focus	5 Megapixel		
Gooseneck length	1m(39")		1m(39")
Camera diameter	17mm(0.66")		19.5mm(0.77")
Viewing distance	5cm to 15cm		10cm to ∞
Viewing angle	68°		50°
Zoom and Rotation	3xZoom, 5°/15°/30°/90° rotation	2xZoom, 90° rotation	2xZoom, 90° rotation
Wi-Fi Support system		iOS, Android	iOS, Android
SD card	2GB/Max 32GB		
Working voltage	Li Battery 3.7V/1800mA		
Language	Support English, French, German, Spanish		Support English, French, German, Spanish

**Size(HxWxD):** 240mm x 160mm x 100mm

**Weight:** 584g

**Accessories:** 3.7V Li battery, power adaptor, mirror, hook, magnet, gift box with carrying case.

Accessories:



Φ17mm 5Mega Pixels Camera Probe



EMC  
EN: 61326



Model BS-288



Model BS-280

Wi-Fi Connectivity







CE  
EMC  
EN: 61326

3.2" Color TFT LCD, supporting photo/video, time/date display and multi-languages. Video and images can also be transferred to your PC via the SD Card or USB cable(included). Waterproof(IP67) flexible gooseneck retains configured shape.

Specifications	BS-150	BS-150B	BS-151
LCD screen type	3.2"TFT	3.2"TFT	3.5"TFT
LCD Pixels	320x240		
The max number of frames(FPS)	30FPS/S		
Picture format from the camera	JPG(640x480)		
Camera video format	3GP	AVI(720x240)	MP4(640x480)
Gooseneck length	1m(39")		
Camera diameter	17mm(0.66")		
Viewing distance	5cm to 15cm		
Viewing angle	68°		
Zoom			2.0X
Rotation	Mirror 180°		90°
SD card	Max 8GB	2GB/Max 8GB	
Working voltage	Li Battery 3.7V/1800mA		
TV-OUT	PAL/ NTSC	NTSC	PAL/ NTSC
Language	Support English,French,German,Spanish		

Model BS-151

**Size(HxWxD):** 240mm x 160mm x 100mm  
**Weight:** 584g  
**Accessories:**  
3.7V Li battery, power adaptor, USB cable, mirror, hook, magnet, gift box with carrying case.



CE  
EMC  
EN: 61326

Model BS-150



Model BS-128

CE  
EMC  
EN: 61326

2.4" Color TFT LCD, supporting real-time live view. Waterproof(IP67) flexible gooseneck retains configured shape.

Features	
Support real-time live view	
Highlighted with LED to support the operation in the dark	
4 x AA battery	
Standby function to support the charge	
Support rotating the image 180°from top to bottom	
Flexible gooseneck imager head with waterproof	
2.4" Color TFT LCD	
Specifications	
LCD screen type	2.4"TFT
LCD Pixels	480x234
The max number of frames(FPS)	30FPS/S
Gooseneck length	1m(39")
Camera diameter	17mm(0.66")
Viewing distance	5cm to 15cm
Viewing angle	68°
Working voltage	4 x AA

**Size(HxWxD):** 240mm x 160mm x 100mm  
**Weight:** 584g  
**Accessories:**  
4 x AA battery, mirror, hook, magnet, gift box with carrying case.

Features	
Support real-time live view	
TV peripherals to support operations in other devices	
Highlighted with LED to support the operation in the dark	
Built-in 1800mAh lithium battery, support USB charging	
Standby function to support the charge	
Support rotating the image 180°from top to bottom	
Flexible gooseneck imager head with waterproof	
3.5" Color TFT LCD	
Camera and Video function	
Specifications	
LCD screen type	3.5"TFT
LCD Pixels	320x240
The max number of frames(FPS)	30FPS/S
Gooseneck length	1m(39")
Camera diameter	17mm(0.66")
Viewing distance	5cm to 15cm
Viewing angle	68°
Zoom	2.0X
Working voltage	Li Battery 3.7V/1800mA
TV-OUT	PAL/NTSC system



CE  
EMC  
EN: 61326



Model BS-101

**Size(HxWxD):** 240mm x 160mm x 100mm  
**Weight:** 584g  
**Accessories:**  
3.7V Li battery, power adaptor, mirror, hook, magnet, gift box with carrying case.





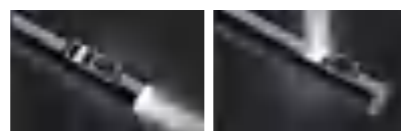
Meterbox iScope



EMC  
EN: 61326



Model BS-220W



**Model BS-220W Specifications**

Gooseneck length	1.5m
Camera diameter	5.5mm(0.216")
Pixels	1280x720
Optimum focal length	4cm~10cm
Binocular insertion tube	Direct and lateral vision
FOV	70°
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Wi-Fi Support system	Android, iOS
Wi-Fi transmission distance	≥10m
Battery	Li-Ion 3.7V 2600mAh
DC Charge	DC 5V 2A

**Size(HxWxD):** 30mm x 122mm x 18mm **Weight:** 78g

**Accessories:** 3.7V Li battery, power adaptor, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.

**BS-060 Video Borescope**

2.4" Color TFT LCD, supporting real-time live view.  
Waterproof(IP67) flexible gooseneck retains configured shape.

**Features**

- Support real-time live view
- Built-in 2000mAh lithium battery, support USB charging
- Standby function to support the charge
- Flexible gooseneck imager head with waterproof
- Camera function

**Specifications**

Color TFT LCD screen type	2.4" TFT (480x234 Pixels)
The max number of frames(FPS)	30FPS/S
Gooseneck length	1m(39")
Camera diameter	17mm(0.66")
Viewing distance	5cm to 15cm
Viewing angle	68°
Working voltage	Li Battery 3.7V/2000mA

**Size(HxWxD):** 135mm x 68mm x 30mm

**Weight:** 180g

**Accessories:** 3.7V 1400mAh Li battery, gift box with carrying case.

**BS-050 Borescope / CT-050 Camera Tester**

**Features (CT-050 Camera Tester )**

- Install 1400mAh Li battery
- High definition 2.4" TFT LCD resolution 480x234
- NTSC/PAL switch automatic
- No video signal input, then will switch to standby model automatic.
- If video signal detected will arouse automatic and enter work state.
- Easy to use and carry

**Specifications**

		BS-050	CT-050
LCD screen type	2.4" TFT	*	*
LCD Pixels	480x234	*	*
The max number of frames(FPS)	30FPS/S	*	*
Gooseneck length	1m(39")	*	*
Camera diameter	17mm(0.66")	*	*
Viewing distance	5cm to 15cm	*	*
Viewing angle	68°	*	*



Model BS-060



EMC  
EN: 61326



Model BS-050

Model CT-050

**Size(HxWxD):** 135mm x 68mm x 30mm  
**Weight:** 173g

**Accessories:** 3.7V 1400mAh Li battery, gift box with carrying case.

Perfect tool for HVAC inspection, vent pipe, machine equipment, engine, automotive, parts assembly, construction sites, wind turbines inspection. It will play an important role in seeing the digestion or other glitches when the place is hard to reach. It can be easily connected with your phone, computer and other terminals via wifi.

**Model BS-100W Specifications**

Gooseneck length	1m/1.5m/2m Optional
Camera diameter	9mm(0.354")
Pixels	1280x720/640x480
Optimum focal length	4cm~10cm
FOV	70°
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n
Wi-Fi Support system	Android, iOS
Wi-Fi transmission distance	≥10m
Battery	lithium battery 4.2V 1800mA
DC Charge	DC 5V / 2A

**Size(HxWxD):** 30mm x 122mm x 18mm **Weight:** 78g

**Accessories:** 3.7V Li battery, power adaptor, mirror, hook, USB cable, AV cable, magnet, gift box with carrying case.

**BS-182W Video Borescope**

182W/183W is a Wi-Fi borescope that can wirelessly stream high-quality video from a camera at the tip of a long probe to the screen of a nearby iPhone or iPad or Android smartphone or tablet computer. Typical applications include inspections of hard-to-reach or hard-to-see areas like crowded engine compartments, equipment enclosures or HVAC ductwork.

**Specifications**

	182W	183W
Max number of frames(FPS)	30fps/s	30fps/s
Wi-Fi Protocol/Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Wi-Fi Frequency range	2.400 ~ 2.4835GHz	2.400 ~ 2.4835GHz
Wi-Fi Modulation mode	802.11b/g/n	802.11b/g/n
Wi-Fi Support system	iOS, Android	iOS, Android
Wi-Fi Distance	10m(Indoor)	10m(Indoor)
Gooseneck length	1m(39")	1m(39")
Camera diameter	17mm(0.66")	5.5mm(0.217")
Rotation		360°
Viewing distance	5cm ~ 15cm	5cm
Viewing angle	68°	55°
Working voltage	Li Battery 3.7V/1400mA	Li Battery 3.7V/1400mA

**BS-10 OTG & Micro USB Inspection Borescope Camera**

This endoscope can be used everywhere and everytime you want only by your phone. Small size, light weight, front end module shell diameter 8mm, the middle part of the installation of a control box, can adjust the brightness of six LED lights, capture the image after the photo directly take photos stored within the Android mobile phone, video can record the whole process of examination convenient for observation and analysis of follow-up.

**Camera Specifications**

Camera diameter	Ø5.5mm	Ø8mm
Resolution	640x480	1280x1080
Viewing direction	2cm~8cm	2cm~10cm
Viewing angle	70°	
Lighting type	6 LED with adjustable brightness	
Cable length	1m/1.5m/2m/3.5m/5m	
Power supply	5V DC Via OTG USB Port	
Computer operating system	XP/Win7/Win8/Vista	
Photo format	JPEG	
Video format	AVI	
Waterproof level	IP67	



Meterbox iScope



EMC  
EN: 61326



Model BS-100W



Meterbox iScope



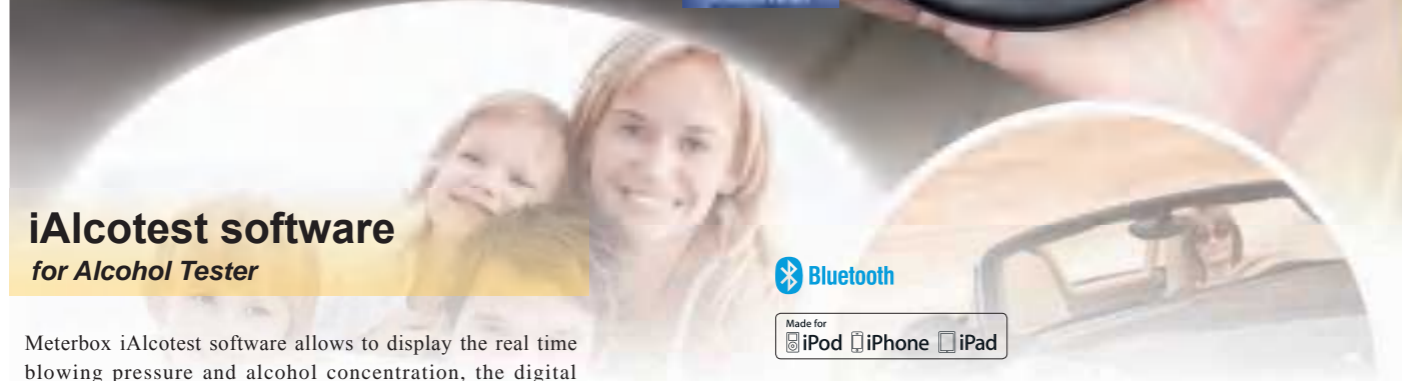
Model BS-182W



Model BS-10 Mirror, Hook & Magnet



# Alcohol Tester



## iAlcotest software for Alcohol Tester

Meterbox iAlcotest software allows to display the real time blowing pressure and alcohol concentration, the digital readings and user interface color will be changed according to the blowing pressure and alcohol concentration

### The smart choice

- Scene mode
- Party mode
- Police mode
- Driving self testing
- Group assignment
- Family use
- History record for each mode



800A/800B are simple to use, rapid response tester that are used to determine whether or not a person has any alcohol in their breath. They use the fuel cell sensor, so the reading is impossible to be affected by anything in the subject's breath other than alcohol.

800A is with red and blue backlit alarm for drunkenness.

800B is with red LED alarm for drunkenness.

### Features

	800A	800B
Fuel cell sensor is high accuracy and reliability	*	*
Short warm up time, fast response and recovery time	*	*
Magnificent man-machine interaction interface	*	*
Real time reading display	*	*
Two stages acousto-optic alarm for drink and drunkenness	*	*
Auto power off under lack of pressure	*	*
Refuse test and interruption indication	*	*
Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,%BAC), Alarm level adjustable	*	*
Disposable backflow blowing nozzle design, safety and health	*	*
High capacity rechargeable battery power	*	*
Multinational drunk driving alarm threshold selection	*	*
Red and blue backlit alarm	*	*
Red LED alarm		*
Datalogger and storage function		*
Detection data centralized management and USB interface to PC		*
Built-in Bluetooth, the detection data can be transferred and shared with cloud storage and cloud computing of the meter's cloud service by a smart mobile.		*
The historical record of the inquiry function		*



Model 800A

### Specifications

Detection range	0.000mg/L~1.500mg/L
Resolution	0.001mg/L
Accuracy	C<0.400 : ±0.020mg/L 0.400≤C<1.000 : ±5% C≥1.000 : ±20%
Repeatability	C<0.400 : 0.007mg/L 0.400≤C<1.000 : 1.75% C≥1.000 : 6%
Calibration cycle	6 months
Operation temperature range	0 ~ 50°C
Storage temperature range	-10 ~ 60°C
Breath flow continuity	3s (flow: >20L/min)
Working voltage	7.4V (Rechargeable battery)



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Model 800B

Size(HxWxD): 240mm x 160mm x 100mm

Weight: 584g

Accessories:

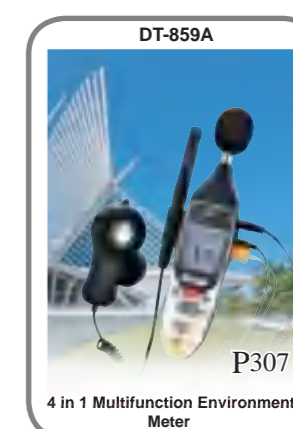
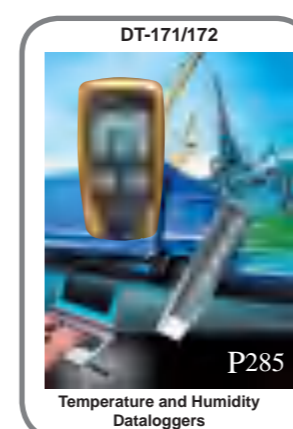
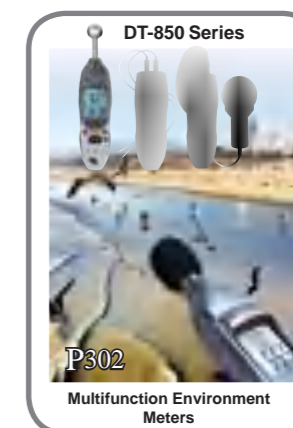
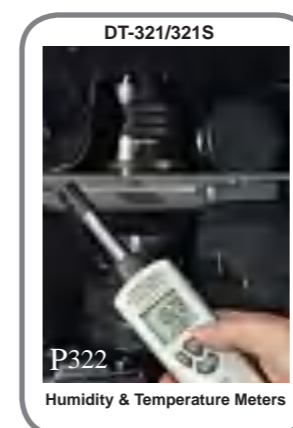
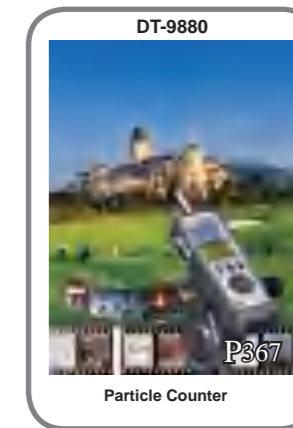
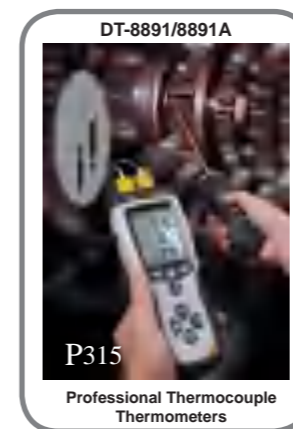
7.4V Li battery, power adaptor, pipe, gift box with carrying case.



# Professional Multifunction Environment Meters



## Environment Meter Selection Guide





**DT-179**  
Carbon Monoxide Datalogger (P288)



**DT-185**  
Light Datalogger (P287)



**DT-186**  
Anemometer Datalogger (P287)



**DT-171**  
Humidity & Temperature Datalogger (P285)



**DT-171V**  
DC Voltage Datalogger (P286)



**DT-171T**  
Type-K temperature Datalogger (P285)



**DT-173**  
Sound Level Datalogger (P287)



**DT-174B**  
Humidity/Temperature & Air Pressure Datalogger (P288)



**DT-178A**  
3-Axis Vibration Datalogger (P289)



**DT-172**  
Temperature & Humidity Datalogger (P286)



**DT-193H1**  
Temperature & Humidity Datalogger (P283)



**DT-194T**  
Temperature Datalogger (P284)



**DT-175CV1**  
AC Current & Voltage Datalogger (P220)



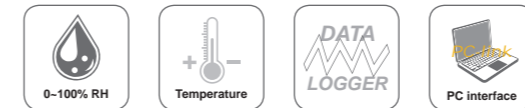
**DT-100B**  
Bluetooth Transmitter



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**DT-1700/1701/1702**

Laboratory Temperature & Humidity / Sound Level / CO Datalogger



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Made for  
iPod iPhone iPad

Bluetooth

Features	1700	1701	1702
Humidity & temperature readings, plus Time and Date	*		
Sound Level , humidity & temperature readings, plus Time and Date		*	
Carbon monoxide , humidity & temperature readings, plus Time and Date			*
Measures Humidity & Temperature plus included software calculates and graphs Dew Point, Wet Bulb, and GPP (grains per pound)	*	*	*
Large dual graphical LCD displays with adjustable vertical and horizontal TAC resolution	*	*	*
Internal memory records up to 80 Million data points	*	*	*
7" TFT color LCD indicates percentage of memory remaining	*	*	*
Replaceable probe does not require recalibration	*	*	*
Detachable probe extends up to 1 meter for measurements in closed environments	*	*	*
Audible and visual alarm with Hi/Low setpoints	*	*	*
Output socket used with optional external alarm module	*	*	*
Scroll the cursor to display selected data recorded	*	*	*
Desk or wall mount	*	*	*
Bluetooth interface to smartphone/PC	*	*	*
Smart touchscreen	*	*	*
Sample rate 1 second	*	*	*

Specification	1700	1701	1702
Relative Humidity Range	0 ~ 100.0%	*	*
Temperature Range	-28.0 ~ 60.0°C (-20.0 ~ 140.0°F)	*	*
Accuracy	±3% Relative Humidity; ±1.8°F/±1°C	*	*
Sound level meter		*	
Sound level Range	Auto: 30dB~130dB (31.5HZ ~ 8kHz)		*
Accuracy	±1.4dB (IEC61672 -1 CLASS2)		*
Carbon monoxide meter			*
Carbon monoxide Range	0 ~ 1000PPM		*
Accuracy	±5% or ±10 PPM		*

**Size(HxWxD):** 180mm x 115mm x 18mm    **Accessories :** 3.7V Lithium battery, software and clamshell.  
**Weight:** 450g



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**DT-1703 Desktop Indoor Air Quality CO<sub>2</sub> Monitor**

- Features**
- 7" Color TFT LCD Display
  - Checks for Carbon Dioxide (CO<sub>2</sub>) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
  - NDIR (non-dispersive infrared) CO<sub>2</sub> sensor
  - Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
  - Displays Year, Month, Date, and Time
  - Max/Min CO<sub>2</sub> value recall function

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Specifications	Function	Range	Resolution	Accuracy
CO <sub>2</sub>		0-9999ppm	1ppm	±5%±75ppm
Temperature		-10 to 60°C/14 to 140°F	0.1°C/°F	±1°C/1.8°F
Humidity		0.1 to 100.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

**Size(HxWxD):** 205mm x 110mm x 35mm  
**Weight:** 350g  
**Accessories :** NiMH battery, gift box with carrying case.



Model 1703





191 series Plug-PDF Temperature/Humidity datalogger can monitor temperature and humidity values efficiently and conveniently for long time by using the Datalogger.

The readings are saved in the logger and simply read out by your PC with USB interface.



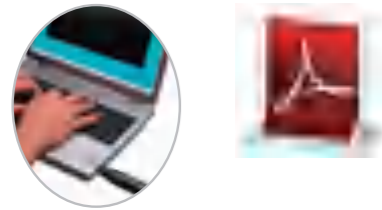
Model 191

Features	191	191A	191B
Temperature datalogger	*		
Temperature and humidity datalogger		*	
Temperature and air pressure datalogger			*
Immediately USB flash disk PDF report	*	*	*
Freely selectable sample rate 1 min to 24h	*	*	*
LCD Max/ Min display	*	*	*
Download collected data through USB interface	*	*	*
Battery life :up to 1 year (1 minute sample rate )	*	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*	*
Analysis software used to view graph for logging data	*	*	*

Specifications	191	191A	191B
Temp. range	-30 to 70°C/ -22 to 158°F	-30 to 70°C/ -22 to 158°F	-30 to 70°C/ -22 to 158°F
Temp. accuracy	±1°C/1.8°F	±1°C/1.8°F	±1°C/1.8°F
Temp. resolution	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F
Humidity range		0 to 100%RH	0 to 100%RH
Humidity accuracy		±3.5%RH	±3.5%RH
Humidity resolution		0.1%RH	0.1%RH
Air pressure range			300 to 1200hpa
Air pressure accuracy			±3hpa
Air pressure resolution			1hpa
Memory	40020	40020(20010 / channel)	40020(13340 / channel)
Sample rate	1min-24 hours		
Battery life	1year (Sample rate 1minute)		
PDF report	Immediately USB flash disk PDF report		
Analysis software	Windows XP/Vista/Win7/Win8/Win10		

Accessories : 3V Lithium battery, software and clamshell. **Size(HxWxD):** 75mm x 35mm x 16mm  
**Weight:** 50g

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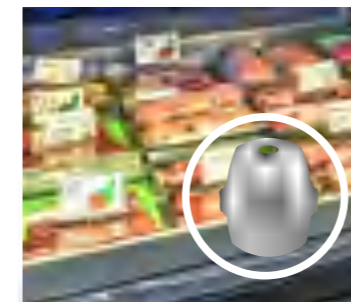


A compact data logger is capable of recording data for months, even long-term shipping and storage. All data viewing, data export, and printing are down via two function keys.

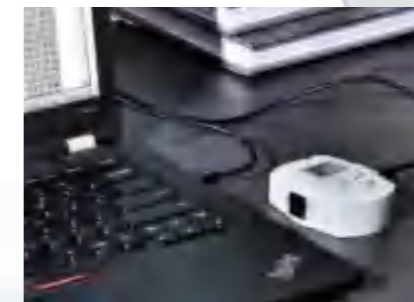
Features	192A	192B
Temperature and humidity datalogger	Temperature	Temperature & humidity
Freely selectable sample rate 1 sec to 24h	*	*
LCD Max Min display	*	*
Download collected data through USB interface	*	*
Battery life :up to 2 years (1 minute sample rate )	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*
Analysis software used to view graph for logging data	*	*

Specifications	192A	192B
Internal Temperature sensor range	-40 to 80°C (-40 to 176°F )	-40 to 80°C (-40 to 176°F )
Probe Temperature sensor range	-50 to 110°C (-58 to 230°F )	-50 to 110°C (-58 to 230°F )
Temperature resolution	0.1°C/ 0.18°F	0.1°C/ 0.18°F
Temperature best accuracy	±0.3°C / ±0.54°F	± 0.3°C / ± 0.54°F
Humidity sensor range		5% to 95%RH
Humidity resolution		0.05%RH
Humidity best accuracy		±2%RH
Memory capacity	52,000 Samples (over 2 channels)	52,000 Samples (over 3 channels)
Sampling rate	Minimum: Once every second Maximum:Once every 24 hours	Minimum: Once every second Maximum:Once every 24 hours
Dew Point		LCD and Software indication
Alarm	BEEP alarm	BEEP alarm
PC Connection	Micro USB	Micro USB
Battery life	2 years depending on sampling rate and operating conditions	
External Temperature sensor type	NTC Temperature sensor 2.5m cable length	
Connection	Mini USB	

Accessories : 3.6V Lithium battery, software and clamshell.  
**Size(HxWxD):** 75mm x 62mm x 32mm  
**Weight:** 150g



Data recording



Connect to PC via USB cable

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Model 192A



Model 192B







193 series Plug-PDF Temperature/Humidity/vibration dataloggers can monitor temperature/humidity/vibration values efficiently and conveniently for long time by using the Datalogger. 193TB1/193HB1 are with bluetooth, the readings can be read on the smartphone by APP software. 193TN1/193HN1 are with NB-IOT function, the readings will be uploaded to cloud server and can be read on the smart phone.

The readings are saved in the logger and simply read out by your PC with USB interface.



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Model 193H1

Features	193T1	193H1	193G	193TB1	193HB1	193TN1	193HN1
Temperature datalogger	*			*		*	
Temperature and humidity datalogger		*			*		*
Temperature ,humidity and vibration datalogger			*				
Immediately create PDF report in USB flash disk	*	*	*				
Freely selectable sample rate 1 min to 24h	*	*	*				
LCD Max/ Min display	*	*	*				
Download collected data through USB interface	*	*	*	Bluetooth		NB-IOT	
Battery life: up to 1 year (1 minute sample rate )	*	*	*				
Alarm LED indication	*	*	*				
Analysis software	*	*	*				

Specifications	193T1/193TB1/193TN1	193H1/193HB1/193HN1	193G
Temp. range	-30 to 70°C/ -22 to 158°F	-30 to 70°C/ -22 to 158°F	-30 to 70°C/ -22 to 158°F
Temp. accuracy	±1°C/1.8°F	±1°C/1.8°F	±1°C/1.8°F
Temp. resolution	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F
Humidity range		0 to 100%RH	0 to 100%RH
Humidity accuracy		±3.5%RH	±3.5%RH
Humidity resolution		0.1%RH	0.1%RH
vibration range			0 to 16g
vibration accuracy			±0.5g
vibration resolution			0.1g
Memory	32000	32000(16000 /channel)	30000(T+RH) 1000(vibration)
Sample rate	1min-24 hours		
Battery life	1year (Sample rate 1minute)		
PDF report	Immediately create PDF report in USB flash disk		
Analysis software	Windows XP/Vista/win7/win8/win10		

Accessories : 3V Lithium battery,software and clamshell.

Size(HxWxD): 95mm x 39mm x 13mm  
Weight: 50g



194T series Plug-PDF Temperature/Humidity & Vibration dataloggers can monitor temperature/humidity/Vibration values efficiently and conveniently for long time by using the Datalogger. 194TK is thermocouple datalogger.

The readings are saved in the logger and simply read out by your PC with USB interface.

Features	194T	194TH	194TK	194G
Temperature datalogger	*			
Temperature and humidity datalogger		*		
Temperature type K range datalogger			*	
Temperature, humidity and vibration datalogger				*
Immediately create PDF report in USB flash disk	*	*	*	*
Freely selectable sample rate 1 min to 24h	*	*	*	*
Max/ Min LCD display	*	*	*	*
Download collected data through USB interface	*	*	*	*
Battery life: up to 1 year (1 minute sample rate )	*	*	*	*
Alarm display if user-defined maximum/minimum value is exceed	*	*	*	*
Analysis software used to view graph for logging data	*	*	*	*

Specifications	194T	194TH	194TK	194G
Temp. range	-40 to 70°C/ -40 to 158°F	-40 to 70°C/ -40 to 158°F	-200 to 1370°C (-328 to 2498°F)	-30 to 70°C/ -22 to 158°F
Temp. accuracy	±1°C/1.8°F	±1°C/1.8°F	±[0.15%rdg+1°C(1.8°F)]	±1°C/1.8°F
Temp. resolution	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F
Humidity range		0 to 100%RH		0 to 100%RH
Humidity accuracy		±3.5%RH		±3.5%RH
Humidity resolution		0.1%RH		0.1%RH
vibration range				0 to 16g
vibration accuracy				±0.5g
Memory	40020	40020(20010/channel)	40020	30000(T+RH) 1000(vibration)
Sample rate	2sec~24 hours			
Battery life	1year (Sample rate 1minute)			
PDF report	Immediately create PDF report in USB flash disk			
Analysis software	Windows XP/Vista/win7/win8/win10			

Accessories : 3.6V Lithium battery,software and clamshell.

Size(HxWxD): 122mm x 11mm x 26mm  
Weight: 60g



Model 194T

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You can monitor temperature and humidity values efficiently and conveniently for long time periods by using the Datalogger. The readings are saved in the logger and simply read out by your PC with USB interface.



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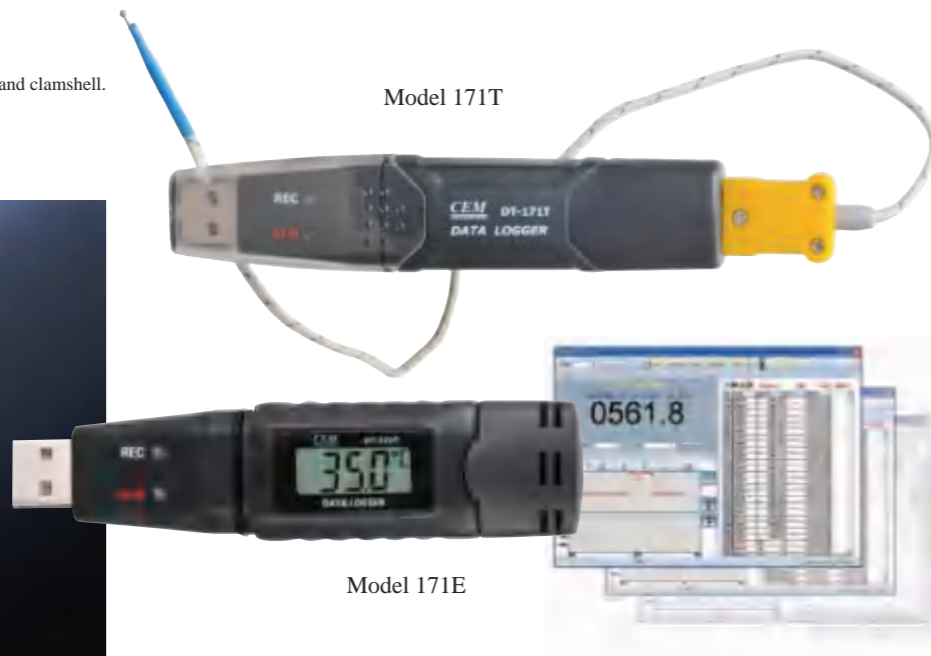
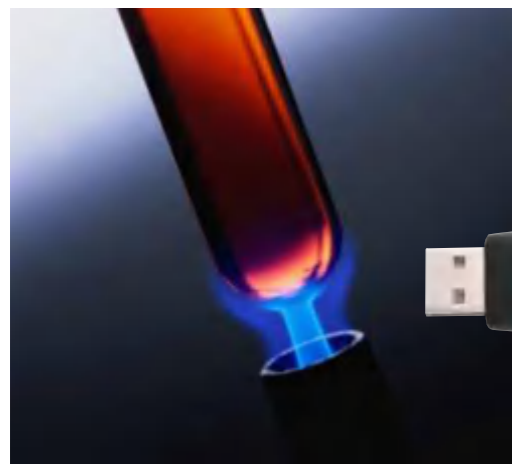
- Memory for 16000 (171) readings
- Temperature datalogger (170)
- 2000 Counts digital LCD display (171E)
- PDF report (171F)
- Freely selectable measurement cycle from 2sec. to 24h
- Battery life: more than 3 years
- Display all status information through two LEDs
- Download collected data through USB interface
- Alarm display if user-defined maximum/minimum values is exceed
- Analysis software used to view graph for logging data

Specifications	170	171/171E/171C/171F	171T
Temp range	-40 to 70°C -40 to 158°F	-40 to 70°C -40 to 158°F	
Temp Accuracy	±1°C	±1°C	
Humidity range		0 to 100%RH	
Humidity Accuracy		±3.5%RH	
Temp K range			-200 to 1370°C(-328 to 2498°F)
Temp K Accuracy			±1°C
Memory	32000(16000 each for temperature and humidity)		
Measuring rate	2sec. to 24h		
Battery life	typically 3 years		
Analysis software	windows 98/2000/XP/Vista/7		

Accessories :  
3.6V Lithium battery, K-Temp probe(171T), software and clamshell.

Size(HxWxD): 130mm x 30mm x 25mm

Weight: 20g



Model 171



Model 171C



EMC  
EN: 61326



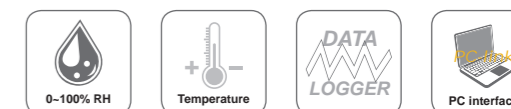
Specifications	171V/171VD	171A/171AD
DC Voltage range	0 to 30V	
DC Voltage accuracy	±0.5%+1	±0.5%+1
DC Current range		4 to 20mA
DC Current accuracy		±1%±1Count
Reading Memories	32000 readings	32000 readings
Measuring rate	400Hz. to 24h	1sec. to 24h
LCD display counts	2000(171VD)	2000(171AD)
Analysis software	windows 98/2000/XP/Vista/7	

Accessories : 3.6V Lithium battery, software and clamshell.  
Size(HxWxD): 130mm x 30mm x 25mm Weight: 20g

DT-172/172TK Temperature and Humidity Datalogger DT-174 Temperature/Humidity & Pressure Datalogger



EMC  
EN: 61326



174 provides much faster, more accurate and stable readings with temperature, humidity & air pressure which is in better precision. The windtight design protects the meter against dust and water.

DT-174 Features

The datalogger provides accurate readings with temperature, humidity & air pressure . For the three group data of Temperature, Humidity and Air Pressure, about 10900 readings of each can be recorded. For one group, about 32,700 data can be recorded. Freely selectable measurement cycle from 1 sec. to 24h. Sound & light alarm indication if user-defined maximum/minimum values is exceed. Larger LCD display date, time, temperature, humidity, air pressure and upper/lower limit value.

Specifications

Specifications	172	172TK	174
Temp range	-40 to 70°C -40 to 158°F	-40 to 70°C -40 to 158°F	40 to 70°C -40 to 158°F
Temp Accuracy	±1°C	±0.5°C	±1°C/1.8°F
Humidity range	0 to 100%RH	0 to 100%RH	0 to 100%RH
Humidity Accuracy	±3.5%RH	±3.5%RH	
Temp K range		-200 to 1370°C(-328 to 2498°F)	
Temp K Accuracy		Above -100°C (-148°F): 0.15%rgd+1.0°C(1.8°F) Blow -100°C (-148°F): 0.5%rgd+2.0°C(3.6°F)	
Dew Point Temperature			-40 to 70°C (-40 to 158°F); Accuracy ±2°C/4°F
Air Pressure			0-30PSI/0-2000hPa; Accuracy 0.01PSI/1hPa
Memory	32000(16000 each for temperature and humidity)		
Measuring rate	1sec. to 24h		
Battery life	typically 3 years		
Analysis software	windows 98/2000/XP/Vista/7		

Accessories :

3.6V Lithium battery, K-Temp probe(172TK), software and clamshell. (DT-172/172TK)

3.6V Lithium battery, software and clamshell.(DT-174)

Size(HxWxD):94mm x 50mm x 32mm Weight: 91g (DT-172/172TK)

Size(HxWxD):132mm x 66mm x 37mm Weight: 180g (DT-174)



**Features**

- IEC61672-1 CLASS2
- MAX & MIN measurements
- Alarm value setup
- A & C Weighting
- NORM(Normal) & PEAK mode
- 25ms sample interval
- FAST & SLOW response
- Manual and Automatic mode



Model 173

**Size(HxWxD):** 106mm x 56mm x 33.5mm  
**Weight:** 34g  
**Accessories :**  
 3.6V Lithium battery, stand, software and clamshell.

**Specifications**

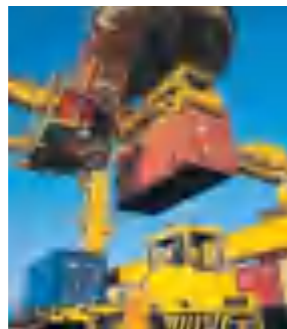
Standard applied	IEC61672 -1 CLASS2
Accuracy	±1.4dB
Frequency range	31.5HZ ~ 8kHz
Dynamic range	50dB
Level range	Auto: 30dB~130dB
Frequency weighting	A/C
Time weighting	FAST ( 125ms ), SLOW ( 1s )
Memory Reading	129920 points for dBA or dBC
Sample rate	1 Sec. to 24h
Microphone	1/2 inch electret condenser microphone
Data output	USB data traffic

**DT-186/187 Anemometer Datalogger**



Model 186

Model 187



**Features**

- Alarm setup and indication
- Recording and low battery indication
- Manual and automatic start mode
- USB port for data traffic and power supply
- Status indication via Red/Yellow LED and Green LED
- Analysis software windows 98/2000/XP/Vista/7

**Specifications**

Memory	32000 readings
Measuring rate	2sec. to 24h
Measurement Range	0.40 to 30.0m/s
Measurement Resolution	0.1m/s
Accuracy	±3.5% ± 0.2m/s
Warm up period	Less than 2 seconds

**Size(HxWxD):** 145mm x 35mm x 30mm **Weight:** 49g  
**Accessories :** 3.6V Lithium battery, software and clamshell.



Model 185

**DT-185 USB Light Datalogger**

**Features**

- Alarm setup and indication
- Recording and low battery indication
- Manual and automatic start mode
- USB port for data transmission and power supply
- Status indication via Red/Yellow LED and Green LED
- Analysis software windows XP/Vista/Win7/8/10

**Specifications**

Memory	51840 readings
Measuring rate	1sec. to 1h
Measurement Range	0 to 1999W/m <sup>2</sup>
Measurement Max. Resolution	1W/m <sup>2</sup>
Accuracy	±5% or ±10W/m <sup>2</sup>



**Size(HxWxD):** 145mm x 35mm x 30mm **Weight:** 49g **Accessories :** 3.6V Lithium battery, software and clamshell.

**Features**

- Alarm setup and indication
- Recording and low battery indication
- Manual and automatic start mode
- USB port for data traffic and power supply
- Status indication via Red/Yellow LED and Green LED

**Specifications**

Data Memory	10000
Sampling rate	1 min to 18 hours
Data output	USB
<b>Temperature</b>	
Range	-40~70°C/-40~158°F
Resolution	0.1°C/0.1°F
Accuracy	40 to 70°C/104 to 158°F ±2°C/3.6°F 0 to 40°C/32 to 104°F ±1°C/1.8°F -40 to 0°C/-40 to 32°F ±2°C/3.6°F
<b>Humidity</b>	
Range	0~100%RH
Resolution	0.1%RH
Accuracy	0 to 20 and 80 to 100% ±5% 20 to 40 and 60 to 80% ±3.5% 40 to 60% ±3.5%
<b>Air Pressure</b>	
Range	950~1050hPa
Resolution	0.1hPa
Accuracy	±0.25%FSO(25 °C)
Repeatability	±0.2% (Max ±0.3%FSO)
Linearity/Hysteresis	±0.24% FSO
Temperature coefficient	±0.1% FSO



Model 174B



**Size(HxWxD):** 145mm x 35mm x 30mm **Weight:** 49g  
**Accessories :** 3.6V Lithium battery, software and clamshell.

**DT-179 Carbon Monoxide Datalogger**

**Features**

- Alarm setup and indication
- Recording and low battery indication
- Manual and automatic start mode
- USB port for data traffic and power supply
- Status indication via Red/Yellow LED and Green LED
- Analysis software windows 98/2000/XP/Vista/7

**Specifications**

Memory	32000 readings
Measuring rate	2sec. to 24h
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

**Size(HxWxD):** 145mm x 35mm x 30mm **Weight:** 49g  
**Accessories :** 3.6V Lithium battery, software and clamshell.

Model 179





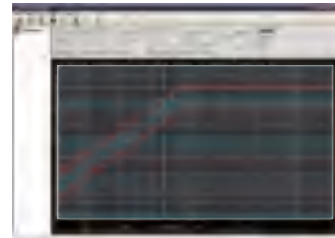
178A is engineered to record acceleration data of vibration, it will record and time 3-axis vibrations and peaks to provide a history of shock/vibration conditions. and it will record the time when freefall happens.

It measures and computes real-time spectral data using an FFT(Fast Fourier Transform) from 0 to 60 Hertz.

178B is vibration, humidity and temperature Datalogger



Model 178A



Features	178A	178B
Records 3-axis shock	*	*
Build-in accelerometers	*	*
Measures dynamic and static acceleration	*	*
Real-time operation	*	*
Freefall detection mode	*	*
User settable trigger levels	*	*
Real-Time FFT	*	*
High speed download(USB2.0)	*	*
Vibration, humidity and temperature Datalogger		*

Specifications	178A	178B
Acceleration Sensor:MEMS Semiconductor	*	*
Acceleration Sensor sampling Rate:256Hz	*	*
Acceleration Range:±18g	*	*
Acceleration Resolution:0.00625g	*	*
Acceleration Accuracy:±0.5g	*	*
Non-Linearity:±1%	*	*
Bandwidth:Approx. 0 ~ 60Hz	*	*
Trigger Range: 0 to 18g (XYZ magnitude)	*	*
Temp & Humidity Range:-40 to 70°C/-40 to 158°F 0 to 100%RH		*
Temp & Humidity Resolution:0.1%RH/0.1°C/°F		*
Temp & Humidity Accuracy:±2%RH/1°C/°F		*
Sampling Rate:1sec. to 24hours	*	*
Memory:8Mbit FLASH (Memory for 504126 samples, about 168042 samples/.axis for x, y and z axis seperately)	*	*

Accessories :  
3.6V Lithium battery, software and clamshell.



EMC  
EN: 61326

DT-3898 Vibration Meter

Model 3898

Applications for all industrial machinery vibration monitoring. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will increase the vibration level, it is a sure sign that the maintenance is needed.



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EN: 61326



Features
Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
Professional vibration meter supply with vibration sensor & magnetic base, full set.
Velocity measuring range 200 mm/s.
Acceleration measuring range 200 m/s <sup>2</sup> .
RMS & Peak measurement.
Wide frequency range.
Data hold button to freeze the desired reading.
Memory function to record maximum and minimum reading with recall.
Super large LCD display.
Microcomputer circuit, high performance.
Auto shut off saves battery life & built-in low battery indicator.

Specifications	
Range	Velocity :200 mm/s : 0.5 to 199.9 mm/s Acceleration :200 m/s <sup>2</sup> : 0.5 to 199.9 m/s <sup>2</sup>
Frequency range	10 Hz to 1 KHz
Accuracy	± ( 5 % + 2 d ) reading @80 Hz, 160 Hz.

Size(HxWxD): 160mm x 62mm x 21mm  
Weight: 200g  
Accessories : 9V battery.

Wireless vibration & temperature MEMS sensor for remote condition monitoring with Wi-Fi /NB-IoT

The 188V Vibration & Temperature Sensor has the building blocks that allow maintenance and reliability teams to add remote vibration monitoring to assets and minimize unnecessary routes, maximize uptime and save time. With a frequency range of 10 to 1,000 hertz (Hz), the vibration sensor screens assets and notifies users of abnormalities caused by critical faults such as imbalance, misalignment, looseness and bearing wear to provide a warning for potential equipment failure. Using APP software, receive alarms on your smart device or computer within seconds of an abnormality and prevent downtime.



Model 188V



188V Features
Wireless vibration & temperature MEMS sensor for remote condition monitoring
Frequency response range: 10 to 1,000 Hz
Temperature response range ( PT100 Type thermocouple sensor): -20 ~ 200°C (-4 ~392°F )
Data visualization: Vibration trend for all three axes and temperature trending
Alarms: Auto-generated using Vibration Severity scale to keep you updated on machine abnormalities
Remote monitoring: View continuous stream of real-time and historical vibration data from remote assets
Data capture rate: 1 data point every 90 seconds
Bluetooth type: Low Energy 4.1
IP Rating: IP 67

Specifications		
Vibration Range	Sensitivity range	±32 g
	Frequency range	10 Hz to 1000 Hz
	Sampling rate	25600 Hz
Temperature Range	-20°C ~ 200°C (-4 °F~392°F )	

The 188GW Gateway aggregates 188V Vibration Sensor data and streams it to the cloud for continuous condition monitoring.

188GW Features
Aggregates data via Bluetooth of up to 20 the 188V Vibration Sensors
Streams the sensor data to the APP software via a Wi-Fi connection
Remote monitoring: View continuous stream of real-time and historical vibration data from remote assets
Bluetooth type: Low Energy 4.1
IP Rating: IP 67
Wi-Fi / NB-IoT connection required (Optional)
110V/220V AC power required

Size(HxWxD): 61mm x 20mm x 19mm  
Weight: 50g

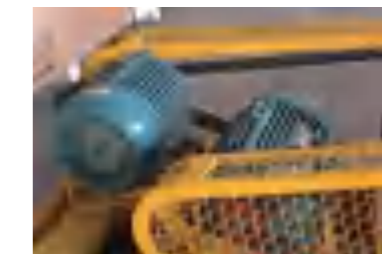


Model 188GW



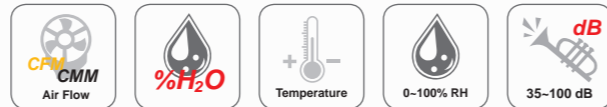
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Wi-Fi / NB-IoT connection required (Optional)





DT-72 series Environment Meter Probe are professionally designed with completely modern new outlook. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.



Made for iPod iPhone iPad



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**Bluetooth + APP**  
Environment Probes App for free download



Meterbox Probes

iOS 8.0 or later  
Android 5.0 or later



**DT-72T1 Thermometer Specifications**

Temperature Range	-50 to 150°C/-58 to 302°F
Accuracy	±1.0°C/1.8°F
Resolution	0.1°C/°F

**DT-72DP Differential Pressure Meter Specifications**

Measuring Range	-150 to 150hPa
Accuracy	±0.3%FSO (25°C)
Resolution	0.01hPa

**DT-72MC Pinless Moisture Meter Specifications**

Measuring Range	0.0 to 100.0
Penetration Depth	20 to 40mm
Resolution	0.1

**DT-72MR Contact Hygrometer Specifications**

Wood moisture (contact and probe)			
Range	6 to 99.9		
Accuracy	±2 (6% to 60%), ±4 (60% to 99.9%)		
Resolution	0.1		

**DT-72A Vane Anemometer Specifications**

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.4 to 25.0m/s	0.1m/s	±3.5%±0.2m/s
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/°F	±0.8°C, (-20 ~ 0°C) ±0.5°C, (0 ~ 60°C)
Relative Humidity	0 to 100%RH	0.1%RH	±3.5%RH @ 20~80%RH ±5%RH @ 0~20%RH&80~100%RH

**DT-72H Hot Wire Anemometer Specifications**

Function	Range	Resolution	Accuracy
m/s(meter per second)	0.00 to 30.00m/s	0.01m/s	±5%±0.1m/s, (0~5m/s)
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/°F	±0.8°C, (-20 ~ 0°C) ±0.5°C, (0 ~ 60°C)
Relative Humidity	0 to 100%RH	0.1RH	±3.5%RH @ 20~80%RH ±5%RH @ 0~20%RH&80~100%RH

**DT-72TH Temperature & Humidity Meter Specifications**

Function	Range	Resolution	Accuracy
Air Temperature	-20 to 60°C -4 to 140°F	0.1°C/°F	±1°C/2°F
Relative Humidity	0 to 100%RH	0.1RH	±3.5%RH @ 20~80%RH ±5%RH @ 0~20%RH&80~100%RH

**DT-72I Infrared Thermometer Specifications**

Function	Range	Resolution	Accuracy
IR Temp. Range	-30 to 250°C -22 to 482°F	0.1°C/°F	±1.5°C ±1.5%
D:S	10:1		

**DT-72S Sound Level Meter Specifications**

Function	Range	Resolution	Accuracy
Frequency	31.5Hz~8kHz	0.1Hz	
Level	30dB~130dB	0.1dB	±1.5db(ref94dB @ 1kHz)

**DT-72L Light Meter Specifications**

Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.1Fc	±4%±10d(<10,000Lux)
Measuring Rate	1 times/second		

Size(HxWxD): 110mm x 30mm x 20mm Weight: 180g  
Accessories : 3x1.5V "AAA" batteries.



EMC EN: 61326



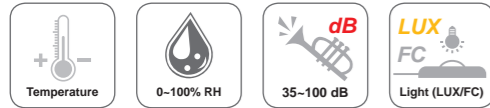
Model 72DP Model 72MC

Model 72H

Model 72T1 Model 72L Model 72A

Model 72MR Model 72S Model 72I Model 72TH





DT-90/91/92/93/95/96/98 series Mini Environment Meters are professionally designed with completely modern new outlook. The whole series are equipped with Bluetooth, easy to transfer the measuring data to user's smart phone. Fulfill requirements of fast, easy and accurate measurement and data analysis.

DT-90 Mini Anemometer

Specifications		
Function	Range	Accuracy
m/s(meter per second)	0.40~25.00	±3.5% ±0.20m/s
ft/min(feet per minute)	80~2980	±3.5% ±40ft/min
km/h(kilometers per hour)	1.4~54.0	±3.5% ±0.8km/h
MPH(miles per hour)	0.9~33.0	±3.5% ±0.4MPH
Knots(nautical miles per hour)	0.8~29.0	±3.5% ±0.4knots
Air Temperature	-10 to 60°C(14 to 140°F)	±2.0°C(4.0°F)

Bluetooth interface for easy data transfer

DT-91 Mini Temperature & Humidity Meter

Specifications			
Function	Range	Resolution	Accuracy
Temperature	-20 to 60°C/-4 to 140°F	0.1°C/°F	±0.5°C/0.9°F
Humidity	0 to 100%RH	0.1%RH	±3%RH

Bluetooth interface for easy data transfer

DT-92 Mini Light Meter

Specifications			
Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.01Fc	±5%±10d(<10,000Lux)
Measuring Rate	1.5 times/second		

Bluetooth interface for easy data transfer

DT-93 2 in 1 HCHO & TVOC Meter

Specifications			
Function	Range	Resolution	Accuracy
HCHO	0.00 to 5.00mg/m <sup>3</sup>	0.01mg/m <sup>3</sup>	±5%FS
TVOC	0.00 to 9.99mg/m <sup>3</sup>	0.01mg/m <sup>3</sup>	±5%FS

Bluetooth interface for easy data transfer

DT-95 Mini Sound Level Meter

95 Mini Sound level meter have a wide dynamic range from 35 to 130dB. It has different frequency weighting A and C to respond to human sense or machine monitoring purposes.

Specifications		
Function	Range	Accuracy
Sound Level	35 ~ 130dB	±3.0dB(ref 94dB@1kHz)
Frequency	31.5 ~8kHz	
Frequency Weighting	A, C	

Bluetooth interface for easy data transfer

DT-98 Mini Pinless Moisture Meter

Specifications	
Measuring Range	0.0~100.0 %
Penetration Depth	20~40mm
Resolution	1

Features
Quickly indicate the moisture content of materials
CM % measured function
Depth of penetration about 20~40mm with alarms.
Measure and HOLD Function
MAX/MIN display Function
Programmable moisture alarms
Auto Power Off & low battery indication
White Backlit LCD Display

Size(HxWxD): 185mm x 55mm x 38mm  
Weight: 139g  
Accessories : 9V battery, Clamshell.  
3.7V Li-battery (DT-96)



Made for iPod iPhone iPad



EMC  
EN: 61326



Meterbox Pro



Model 90



Model 95



Model 92



Model 93



Model 91



Model 98



# Multifunction EMF Meter

EMF-90 is a three-axis high-frequency electromagnetic wave tester. It adopts advanced high-frequency sensor technology and can be applied to high-frequency electromagnetic field test base, mobile phone, wireless network and other electronic wireless products.

**Features**

- Test 100M to 8GHZ frequency range
- three-axis high-frequency Measurement
- Data-logger function
- Auto Power Off
- Data transfer to PC via USB(CSV or EXCEL files)
- Adjustable alarm threshold and memory function



Model EMF-90

**Specifications**

Measurement Range	20mV/m to 200V/m
Absolute Tolerance (@1V/m 10MHz)	±1.0dB
Frequency Response	± 1.0dB (10MHz to 1.9 GHz) ± 2.4dB (1.9GHz to 8GHz)
Isometric Deviation	±1.0dB @ f>10 MHz
Resolution	0.1mV/m



DT-93U can measure the concentration of HCHO & TVOC & temperature & humidity accurately. The device has data recording function, it can automatically record the measurement data and generate readable files according to the sampling time and interval set by users. Users can directly view the data in the device or export the data to the computer through USB. A high-capacity lithium battery inside is to ensure long time measurement, it also has sleep mode function and automatic shutdown function.

**Features**

- Detecting HCHO & TVOC
- Data-logger function
- Chart function
- Screen brightness settings
- Data transfer to PC via USB (CSV or EXCEL files)
- Quick Response
- Sleep mode
- Max/Min/AVG mode
- Auto power off

**Specifications**

	Range	Accuracy	Resolution
HCHO detection	0.00~5.00ppm	±5% F.S	0.01ppm
TVOC detection	0.00~9.99ppm	±5% F.S	0.01ppm
Temperature	-10 to 60°C /14 to 140°F	±0.5°C (±1°F)	0.1°C /°F
Humidity	0 to 100%RH	±3%RH	0.1%RH

DT-97U meter is a sort of exquisite concise and efficient detector launched by CEM recently, which is integrated with CO2、CO、temperature and humidity detection function. This meter has adopted high-precision CO2 and CO Sensor which can detect the CO2 and CO accurately and sensitively. The device is equipped with an accurate sensor that can detect the temperature and humidity at current environment. The operation is very simple. it is very convenient to carry, so that we can check air quality from time to time.

**Features**

- High precision CO2 and CO sensors
- Data-logger function
- Data transfer to PC via USB(CSV or EXCEL files)
- Quick Response
- Max/Min/AVG mode
- Auto Power Off

**Specifications**

	Range	Accuracy	Resolution
CO <sub>2</sub> Measurement	0 to 9999ppm	±75 ppm ±3% of reading	1ppm
CO Measurement	0 to 1000ppm	±5% F.S	1ppm
Temperature	-10 to 60°C /14 to 140°F	±0.5°C (±1°F)	0.1°C /°F
Humidity	0 to 100%RH	±3%RH	0.1%RH

DT-93HW is a Mini Hot Wire anemometer, which can measure air velocity, volume flow ,temperature and humidity .With the combination of hot wire and precise digital sensor, it can be measured quickly and accurately even at low wind speed.

**Features**

- Quick response
- Max/Min/AVG mode
- Data transfer to PC via USB(CSV or EXCEL files)
- Telescopic probe facilitates user measurement
- Auto power off
- Data-logger function

**Specifications**

	Range	Accuracy	Resolution
Air Velocity Measurement	0.00 to 30.00m/s	±0.10±5% m/s(0 to 5m/s) ±0.30±5% m/s(5 to 30m/s)	±0.01m/s
Temperature Measurement	0 to 50°C /32 to 122°F	±1°C (±2°F)	0.1°C/°F
Humidity	0 to 100%RH	±4%RH	0.1%RH

**DT-96 Mini Particle Counter**

**Specifications**

Function	Channel / Range	Accuracy
Particle Counter	2.5µm, 10µm	±30%
Air Temp Range	0 to 50°C/32 to 122°F	±1°C/2°F
Humidity Range	0 to 100%RH	±5%RH@0~20%RH & 80~100%RH ±3.5%RH@20~80%RH

Bluetooth interface for easy data transfer

Size(HxWxD): 185mm x 55mm x 38mm

Weight: 139g

Accessories : 3.7V Li-battery



Model 93HW



Model 97U



Model 93U



Model 96



After the Smart HCHO Monitor is connected to the mobile phone through USB, It will run automatically. The main screen on the APP will show the measuring data include HCHO/TVOC/Temperature/Humidity at real time. The app will prompt the pollution level and provide some advice to solve the pollution. The app will automatically carry out statistical analysis and show the monitoring curve.



Model HC-01

**Features**

- The device can work only by plugging into the phone without battery
- Show monitoring curve at real time
- Analyze the data and prompt pollution level automatically
- Continuously recording and single recording
- History data checking, statistical analysis and data export
- Provide reasonable suggestions for removing the HCHO

**Specification**

Function	Range	Resolution	Accuracy
HCHO	0.00~5.00ppm	±5% F.S	0.01ppm

Size(HxWxD): 64mm x 33mm x 14mm  
Weight: 100g

**DT-82/83/85A/85C/86/86B Mini Environment Meters**



**DT-82 Mini Anemometer**

**Specification**

Function	Range	Accuracy
m/s(meter per second)	0.40~25.00	±3.5% ±0.20m/s
ft/min(feet per minute)	80~2980	±3.5% ±40ft/min
km/h(kilometers per hour)	1.4~54.0	±3.5% ±0.8km/h
MPH(miles per hour)	0.9~33.0	±3.5% ±0.4MPH
Knots(nautical miles per hour)	0.8~29.0	±3.5% ±0.4knots



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**DT-85A/85C Mini Sound Level Meter**

**Specification**

Function	Range	Accuracy	85A	85C
Sound Level	35 ~ 130dB	±3.0dB (ref 94dB@1kHz)	*	*
Frequency	31.5 ~8kHz		*	*
Frequency Weighting			A	C



**DT-83 Mini Temperature & Humidity Meter**

**Specification**

Function	Range	Resolution	Accuracy
Temperature	-20 to 60°C/ -4 to 140°F	0.1°C/°F	±0.5°C/0.9°F
Humidity	0 to 100%RH	0.1%RH	±3%RH



**DT-86/86B Mini Light Meter**

**Specification**

Function	Range	Resolution	Accuracy
Light	40,000Lux /Fc	0.1Lux/0.01Fc	±5%±10d (<10,000Lux)
Measuring Rate	1.5 times/second		



Size(HxWxD): 165mm x 54mm x 34mm(82)      146mm x 54mm x 34mm(83)      128mm x 54mm x 34mm(85A/85C)      157mm x 54mm x 34mm(86)  
Weight: 139g(82), 138g (83), 131g (85A/85C), 138g (86),

Accessories :  
9V battery, Clamshell.



3851/3852 Sound Level Meters are designed for noise project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household etc.

**Features**

	3851	3852
This unit confirms to the IEC61672-1 class 2 for Sound Level Meters	*	*
MAX & MIN measurements	*	*
Ovrange display	*	*
Underrange display	*	*
A & C Weighting	*	*
FAST & SLOW response	*	*
Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder	*	*
Memory for 32700 readings		*
Datalogger function		*
Adjustable Alarm-Levels		*

**Specifications**

Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5Hz ~ 8kHz
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST ( 125mS ), SLOW ( 1s )
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display Update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB

Size(HxWxD): 230mm x 60mm x 30mm (3851/3852)  
Weight: 310g (3851/3852)

**Accessories :**

Battery, screwdriver, audio plug, windscreen, software, USB cable, tripod and power supply and gift box with carrying case.

1.4dB Accuracy

Level range: 30~130dB



EMC  
EN: 61326



Time weighting & Frequency weighting, Current reading



Analog AC/DC outputs



Model 3852







Model 73A

Model 73L

**DT-73A Mini anemometer, which can measure air velocity and temperature**

**Features**

- Quick response
- Wind power classification
- Max/Avg mode
- Low power display
- Auto power off

**Specifications**

	Range	Accuracy	Resolution
Air Velocity Measurement	0.6 to 25m/s	±5% ±0.5m/s	0.1m/s
Temperature Measurement	-10 to 50°C/14 to 122°F	±2°C(±4°F)	0.1 °C/°F

**DT-73L Light meter is a precision instrument that used to measure illuminance(Lux,footcandle) in the field**

**Features**

- Silicon Photo Diode Sensor with a Spectral Response Filter Fully Cosine Corrected.
- 4 Measuring Ranges
- High accuracy and rapid response

**Specifications**

	Range	Accuracy	Resolution
Illumination Measurement	0-200kLux/	±4% ±10d (<10,000Lux)	0.1Lux/0.01FC
	0-20kFC	±8% ±10d (>10,000Lux)	

**DT-73S is a mini noise sound level meter**

**Feature**

- Auto Power Off
- Low power consumption
- MAX/MIN mode
- FAST/SLOW mode
- Backlight Display
- A Frequency Weighting

**Specifications**

Function	Range	Resolution	Accuracy
Frequency	31.5Hz~8kHz		
Level	30 ~ 130dB	0.1dB	±1.5dB(@1kHz, Standard Sound Source)

**DT-73TH is a device measures Humidity & Air Temperature**

**Specifications**

	Range	Accuracy	Resolution
Temperature Measurement	-20-60°C/-4°F-140°F	±1°C/±1°F	0.1°C/0.1°F
Humidity Measurement	0-100%RH	±4%RH	0.1% RH

**DT-73G is a real-time measurement of HCHO and TVOC**

**Specifications**

	Range	Accuracy	Resolution
HCHO	0.00 to 5.00mg/m <sup>3</sup> (or PPM)	±5%F.S	0.01mg/m <sup>3</sup> (or PPM)
TVOC	0.00 to 9.99mg/m <sup>3</sup> (or PPM)	±5%F.S	

**DT-73C Carbon Monoxide Meter detects the presence of carbon monoxide (CO)**

**Specifications**

	Range	Accuracy	Resolution
CO	0 to 1000PPM	±5% ±10PPM	1PPM

Size(HxWxD): 103mm x 54mm x 28mm Weight: 139g

Accessories : 3x1.5V AAA battery, Clamshell.

**DT-73T Specifications**

TDS measuring Range	0~ 9990PPM
Basic accuracy	±2%F.S
Resolution	1PPM



Model 73S

Model 73TH

Model 73G

Model 73C

73T is a simple measuring TDS tester.

73MC Non-contact Moisture Meter with pinless depth up to 0.75".

**DT-73MC Specifications**

Measuring Range	0 ~ 99.9
Accuracy	± 5
Pinless Depth	up to 0.75"(19mm)
Resolution	0.1

73E is a high-frequency electromagnetic wave tester. It adopts advanced high-frequency sensor technology and can be applied to high-frequency electromagnetic field test base, mobile phone, wireless network and other electronic wireless products.

**Features**

- Test high frequency range
- Auto Power Off
- Adjustable alarm threshold and memory function

**Specifications**

Measurement Range	20mV/m to 200V/m
Absolute Tolerance (@ 1V/m 10MHz)	±1.0dB
Frequency Response	± 1.0dB (10MHz to 1.9 GHz) ± 2.4dB (1.9GHz to 8GHz)
Isometric Deviation	±1.0dB @ f>10 MHz
Resolution	0.1mV/m

73AL is simple to use, rapid response tester that are used to determine whether or not a person has any alcohol in their breath.

**Features**

- Red LED alarm
- Auto power off
- Fuel cell sensor is high accuracy and reliability
- Five detection unit selectable (mg/L,mg/100ml,g/L,%BAC,%BAC), Alarm level adjustable

**Specifications**

Detection Range	Accuracy	Resolution	Repeatability
0.000mg/L ~1.500mg/L	C<0.400 : ±0.020mg/L	0.001mg/L	C<0.400 : 0.007mg/L
	0.400≤C<1.000 : ±5%		0.400≤C<1.000 : 1.75%
	C≥1.000 : ±20%		C≥1.000 : 6%

73MR is a conductivity moisture instrument designed for use in wood, used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar).

**Features**

- Large LCD display
- Readings with Moisture Probe or Hammer Electrode
- Readings with Integral electro Pins

**Specifications**

Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-99.9%
Display Accuracy	Wood: ±2% (6%~60%), ±4% (60%~99%),
Temperature measuring	0-60°C

73P is a Pressure meter simultaneously with an easy-to-read, large, backlit LCD display.

**Features**

- Pressure measurement provides Zero Adjust.
- MAX MIN and AVG measurement.

**Specifications**

Pressure Range	±5000Pa
Accuracy	±0.3%FSO (25°C)
Resolution	1Pa
Response Time	0.5 Seconds typical
Units	PSI /mbar/ inH <sub>2</sub> O/ mmH <sub>2</sub> O/ Pa

The 73I InfraRed Thermometer is a new models designed with lower cost. Check all types of A/C and heating systems.

**Features**

- 500ms quickest sampling time with 2% accuracy
- Large LCD screen shows readings in Fahrenheit or Celsius

**Specifications**

Range	-35°C~250°C/ -31°F~482°F
Accuracy	±2% ±2°C/±3.6°F
Resolution	0.1°C/°F
Response Time	Less than 500ms
D:S	8:1



EMC  
EN: 61326



Model 73AL

Model 73E



Model 73P

Model 73MR



Model 73T

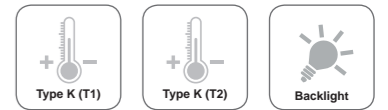
Model 73I

Model 73P





**CE**  
EMC  
EN: 61326



The 852A (single input), 852B (dual inputs) and 852C (four inputs) contact thermometers offer fast response and laboratory accuracy. The 852B (dual inputs) is a microprocessor-based digital thermometer designed to use external type K/J/T thermocouples (temperature probes) as temperature sensors. These thermometers work with type K/J/T thermocouples and offer 0.1°C/0.1°F resolution over the entire measurement range. A rugged holster protects three models.

High Accuracy to 0.25%

Dual Temperature inputs (852B)

**CE**  
EMC  
EN: 61326



Model 852B

Features	852A/852A-T/852A-P	852B/852B-T/852B-P	852C/852C-T/852C-P
External temp probe	J,K,T/Thermistor/ RTD	J,K,T/Thermistor/ RTD	J,K,T/Thermistor/ RTD
User Selectable °C, °F or K	*	*	*
0.1 °C/0.1 °F/0.1K resolution.	*	*	*
Type K/Type J input	Single	Dual	Dual
Max/Min/Avg and Data Hold	*	*	*
Differential Temperature	*	*	*
Hi/Lo Alarm(sound and audio)		*	*
Scan Function(T1,T2,T1-T2.....)	*	*	*
LCD display with backlight	*	*	*
Wide variety of interchangeable Thermocouple Probes	*	*	*
Auto Power Off	*	*	*
Low Battery	*	*	*
Adjustable sampling rate		- / 1 sec to 60 min	- / 1 sec to 60 min
USB interface		*	*
Memory reading		16,000	16,000
Bluetooth interface			*

Specifications	852A/ 852B/852C	852A-P/ 852B-P/852C-P	852A-T/ 852B-T/852C-T
Temperature range	Type J:-328°F to 1832°F(-200°C to 1000°C) Type K:-418°F to 2501°F(-250°C to 1372°C) Type T:-418°F to 752°F (-200°C to 400°C)	-320°F to 1562°F (-200°C to 850°C)	-72°F to 257°F (-40°C to 125°C)
Accuracy	±0.25% of reading + 2°F(1°C) (< 99.9°C/°F) ±0.25% of reading + 0.9°F(0.5°C) (> 99.9°C/°F)	±1°C/1.8°F(-99.9°C to 199.9°C) ±2°C/4°F beyond above range	±0.9°F(±0.5°C)
Respond time	Less than 300ms	Less than 300ms	Less than 300ms
Resolution	0.1° up 1000°, 1° over 1000°	0.1° up 1000°, 1° over 1000°	
User Calibration	0.10°C-5.0°C(0.10°F-9.0°F)	0.10°C-5.0°C(0.10°F-9.0°F)	0.10°C-5.0°C (0.10°F-9.0°F)

**Size(HxWxD):** 185mm x 65mm x 45mm  
**Weight:** 248g

**Accessories :**  
9V battery, Type-K Temperature probe and gift box with carrying case.

**Bluetooth**



Model 852C-P





1.4dB Accuracy

Level range: 30-130dB



EMC  
EN: 61326

Model 855



855/855S Sound Level Meters are designed for noise project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household etc.

Features	855	855S
This unit confirms to the IEC61672-1 class 2 for Sound Level Meters	*	*
MAX & MIN measurements	*	*
Overrange & Underrange display	*	*
A & C Weighting	*	*
FAST & SLOW response	*	*
Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder	*	*
Datalogger function	*	*
Adjustable Alarm-Levels	*	*
Memory for 32700 readings	*	*
Bluetooth interface to smartphone/PC.	*	*

Specifications	
Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB (@ 1kHz, standard sound source)
Frequency range	31.5Hz ~ 8kHz
Dynamic range	50dB
Level ranges	LO:30dB-80dB Med:50dB-100dB Hi:80dB-130dB Auto:30dB-130dB
Time weighting	FAST ( 125mS ), SLOW ( 1s )
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display Update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB

**Size(HxWxD):** 248mm x 65mm x 45mm  
**Weight:** 248g  
**Accessories :**  
9V battery, gift box and carrying case.



1.4dB Accuracy

Level range: 30-130dB



Model 855S



Features
Quickly indicate the moisture content of materials
CM % measure function
Depth of penetration about 20-40mm with alarms.
Measure and HOLD Function
MAX/MIN display Function
Programmable moisture and humidity alarms
Auto Power Off & low battery indication
White Backlit LCD Display

Specifications	
Measuring Range	0.0-100.0 %
Penetration Depth	20-40mm
Resolution	0.1

Moisture Table of Comparison		
Construction material	Display	Moisture status
Gypsum	<30 digits	dry
	30 - 60 digits	at risk
	>60 digits	wet
Cement	<25 digits	dry
	25 - 50 digits	at risk
	50 - 75 digits	wet
	>75 digits	all wet

**Size(HxWxD):** 248mm x 65mm x 45mm  
**Weight:** 248g  
**Accessories :**  
9V battery, gift box and carrying case.

DT-851/851A/851G Dew Point/Wet Bulb/Psychrometer

851/851A is a complete digital psychrometer and a very valuable HVAC diagnostic tool. As a psychrometer, it measures wet bulb(WB), dry bulb(DB), percent relative humidity(RH%), and dew point(DP).  
Temperature/Humidity & Air Pressure(851A).  
Psychrometer with Mixing ratio (851G)



Features	851	851A	851G
Dew Point Temperature measure	*	*	*
Wet Bulb Temperature measure	*	*	*
Dry Bulb Temperature measure	*	*	*
User selectable °C & °F	*	*	*
MAX, MIN, HOLD modes	*	*	*
Dual display with backlight	*	*	*
Automatic Power Off	*	*	*
Low battery display	*	*	*
Barometer, altitude, relative height measurement		*	*
Smart phone APP	*	*	*
Psychrometer with Mixing ratio			*
Bluetooth interface	*	*	*

Specifications			851	851A	851G
Function	Range	Resolution	Basic Accuracy	851	851A
Humidity	0~100% RH	0.1% RH	±3% RH	*	*
Temperature	-20~60°C/-4~140°F	0.1°C/°F	±0.5°C/0.9°F	*	*
Dew Point Temp	-26~50°C/-14.8~122°F	0.1°C/°F	±1°C/1.8°F	*	*
Wet Bulb Temp	-20~50°C/-4~122°F	0.1°C/°F	±1°C/1.8°F	*	*
hPa	700~1100 hPa(-20°C~70°C)	0.01hPa	±3hPa	*	*
Mixing ratio	0-999GPP (0-160g/kg)	1GPP			*

**Size(HxWxD):** 248mm x 65mm x 45mm  
**Weight:** 248g  
**Accessories :**  
9V battery, gift box and carrying case.



EMC  
EN: 61326



Model 853



High Accuracy

Fast Response



High Quality Sensor

Model 851G





Backlight



CE  
EMC  
EN: 61326

Model 856

856 light meter provides accurate display light level in terms of Foot Candles FC or LUX over wide range. Just turning the Function Switch to select the "lux" scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance normal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

856A LED light meter, measures light from visible luminaries equipped with white light LED, fluorescent, metal halide, high-pressure sodium and incandescent sources.

### Features

4000 Counts LCD dual display with timer function  
Auto Ranging  
Max./Min. and Data Hold  
Auto Power Off  
Low battery indication  
User selectable FC/Lux  
Capacity for data logging (99 readings)  
Total accuracy: for C.I.E standard illuminate A(2856K)

### Specifications

	856	856A
Measuring range	400,000Lux	40, 400, 4000, 40000, 400000 Lux 40, 400, 4,000, 40,000, FC
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)	±3% (Calibrated to standard incandescent lamp 2856°K and corrected LED day while-light spectrum) . +/-6% other visible light source.
Max Resolution	0.1Lux/0.01Fc	0.01Lux/0.01Fc
Light Source Selecting	\	LED white day light:L1=0.99 Default standard light source A:L=1.00
USB interface	*	*

Size(HxWxD): 185mm x 65mm x 45mm

Weight: 248g

Accessories :

9V battery, Photo Detector and USB cable, software, Carrying case and Gift box.

## DT-850 CFM/CMM Thermo-Anemometer



CE  
EMC  
EN: 61326

Model 850

850 CFM/CMM Thermo-Anemometer remote sensor is the most popular model for HVAC applications.

### Features

Display Air Flow (CFM/CMM), or Air Velocity plus Temperature & Max/Min/Avg value  
Easy to set Area dimensions (cm<sup>2</sup>) stored in the meter's internal memory for the next power on  
Resolution of 0.01m/sec  
20 points average for Air Flow  
Super large LCD Backlit Display  
3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable  
Low battery indication and Auto Power Off

### Specifications

Air Velocity	Range	Accuracy
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s
ft/min(feet per minute)	80~5900	±3% ±40ft/min
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots
Air Temperature	-10 to 60°C(14 to 140°F)	± 2.0°C(±4.0°F)
Air Flow	Range	Area
CFM	0-999900	0-999.9 ft <sup>2</sup>
CMM	0-999900	0-999.9 m <sup>2</sup>
Humidity	0~100%RH	±3.5% RH

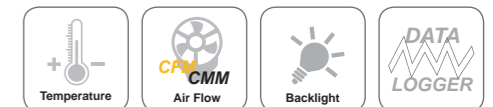
Size(HxWxD): 185mm x 65mm x 45mm

Weight: 248g

Accessories :

9V battery and Anemo probe, Gift box with carrying case.

Made for  
iPod iPhone iPad



857/857A Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 20m/s.

### Features

	857	857A
Single-point and continuous data log options	*	*
Velocity alarm	*	*
LED backlight	*	*
Auto power off	*	*
Low-battery indication	*	*
Data hold	*	*
Probe sensor cover	*	*
Replaceable probe sensor	*	*

### Specifications

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second )	0.1~20m/s	0.01m/s	±5%+0.03 m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	±5%+6ft/min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	±5%+0.1 km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	±5%+0.1 MPH
Air Temperature	-20~60°C (-4~140°F)	0.1°C/0.1°F	0.5°C(0~45°C), 1.0°C (rest of range) 1.0°F(32~113°F),2.0°F (rest of range)

Size(HxWxD): 185mm x 65mm x 45mm

Weight: 248g

Accessories : 3.7 Li battery, USB cable, software, Carrying case and Gift box.

High Quality Sensor

CE  
EMC  
EN: 61326



Model 857

857A  
Replaceable probe

## DT-858 Professional RTD Thermometer

A digital substitute for your mercury-in-glass thermometers. Accurate and repeatable to ±0.05°C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

### Features

Accuracy of ± 0.05 °C (± 0.09 °F) over full range  
Two models to choose from (-50 °C to 160 °C)  
User-configurable temperature Trend/Stability indicator  
Display temperature in °C or °F  
Optional data logging to internal memory  
Percent battery-life and low-battery indicator  
Bluetooth interface

### Specifications

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01 °	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω thin-film RTD		
Display units	°C, °F		

Size(HxWxD): 190mm x 75mm x 38mm

Weight: 320g

Accessories :

3.7V Li-ion battery and Sensor probe,

Gift box with carrying case.

CE  
EMC  
EN: 61326

High Accuracy

Fast Response

Bluetooth



Model 858



Professional Multifunction Environment Meters



4 in 1 Multifunction Environment Meter

CE  
EMC  
EN: 61326



4 in 1 Multifunction Environment Meter

Model 859A

Model 859B



The digital Multifunction Environment Meter has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter Temperature Meter and CFM/CMM Thermo-Anemometer (859B 5in1). It is an ideal Multifunction Environment Meter Instrument with scores of practical applications for professional and home use.

- The Sound level function can be used to measure noise in factories, schools, offices, home, etc, checking acoustics of studios, auditoriums and hi-fi installations.
- The Light function is used to measure luminance in the field. It is fully cosine corrected for the angular incidence of light. The light sensitive component used in the meter is a very stable, long, life silicon diode.
- The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.
- CFM/CMM Thermo-Anemometer is suitable for use in a wide variety of applications, including plant maintenance operations, environmental analysis, fume hood testing, and HVAC system assessment

Features

- Larger LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Display Sound, Light, Type K Temperature plus Humidity & Temperature simultaneously.
- USB interface, USB to UART Bridge Controller..
- Low battery indication, and Auto Power Off mode (Sleep mode) increases.

Size(HxWxD): 248mm x 65mm x 45mm  
Weight: 365g

Accessories :  
9V battery, K-type temperature probe, %RH probe, dB probe, Anemo probe, photo detector and gift box with carrying case.

Specifications

Function	Range:	Resolution	Accuracy	859A	859B
Type K Temp	-200°C to 1372°C (-328°F to 2501°F)	0.1°	Above -100°C (-148°F) ±[0.15%rgd+1°C(1.8°F)] Blow -100°C (-148°F) ±[0.5%rgd+2°C(3.6°F)]	*	*
Air Temp	-30°C~100°C (-22°F~199°F)	0.1°	±1°C/1.8°F	*	*
Humidity	0~100%RH	0.1%RH	±3.5%RH	*	*
Sound Level	30dB~130dB	0.1dB	±3.5dB	*	*
Light	20,200,2000, 20000Lux	0.01,0.1,1,10Lux	±5% ±10d	*	*
Anemo	0.40-30.00 m/s	0.01 m/s	±3% ±0.20 m/s	*	*
	80-5900 ft/min	1 ft/min	±3% ±40 ft/min		
	1.4-108.0 km/h	0.1 km/h	±3% ±0.8 km/h		
	0.9-67.0 MPH	0.1 MPH	±3% ±0.4 MPH		
	0.8-58.0 Knots	0.1 knots	±3% ±0.4 knots		
Air Flow	0-999,900 CFM	0.001 to 100 CFM	Accuracy is function of velocity and area	*	*
	0-999,900 CMM	0.001 to 100 CMM			



This is a multi-function meter, with temperature and humidity detection, infrared temperature measurement, laser distance, wood moisture measurement (pin and pinless), flashlights, time settings and data recording and other functions. It is a powerful and versatile instrument for measuring and diagnosing moisture of building and building materials.

With 8 buttons, the operation is simple, the interface is bright and beautiful, and the function is powerful.

High Accuracy

Fast Response



Model 269

**Features**

- Built-in Thermal Imager design quickly identifies hot spots without contact (279)
- Quickly indicates the moisture content of materials with Pinless technology without damaging the surface; Optional remote Pin-type probe allows for moisture readings at different Penetration levels (3ft/0.9m cable length)
- Designed with patented IR design to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity.
- Built-in Humidity/Temperature sensor measures Relative Humidity,
- Air Temperature plus grains per pound (GPP) and dew point (DP)
- Automatic calculation of differential Temperature (IR - DP)
- Auto power off and low battery indication
- Keep data convenient and easy to access each record with single deletion and total deletion
- Laser distance measurement is fast response and high accuracy. It can measure length, area and volume
- Color, graphical interface, simple operation, easy to understand icons, beautiful interface



EMC  
EN: 61326



Model 279

**Specifications**

Thermal Imager	269	279
IR resolution	80x80 pixels	*
Field of View (FOV)	21 x 21°	*
Thermal sensitivity/NETD	< 0.08°C /80mK	*
Image frequency	50Hz	*
Object temperature range	range: -20 to 200°C (-4 to 392°F)	*
Spectral range	8-14 μm	*
Color palettes	IRON/Rainbow/Grey/Grey Inverted	*
Accuracy	±2°C (±3.6°F) or ±2% of reading	*
Functions		
Function	Range	Resolution Accuracy
Wood moisture	0-99.9	0.1 ±5
laser distance range	0.11m - 50m	0.001m ±1.5mm
Temperature	-20°C to 70°C (-4 to 158°F)	0.1°C ±2°C
Humidity	0-100%RH	0.1%RH ±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)

**Size(HxWxD):** 118mm x 80mm x 48mm **Weight:** 320g

**Accessories :** 4 x "AAA" battery and Sensor probe, Gift box with carrying case.



This instrument is a high-quality measuring instrument that can be used for environmental measurement, such as: CO, CO<sub>2</sub>, O<sub>2</sub>, combustible gas monitoring and other gas analysis, built-in high-precision gas sensor can accurately measure the current environment. Its wide range of applications, can be used as a heating system troubleshooting, statutory limit monitoring or routine maintenance work of reliable partners, The device supports excessive alarm function. When the detection result exceeds the preset alarm value, the buzzer and LED will be generated to alert user. At the same time the device supports data logging, users can save and view historical data at any time.



EMC  
EN: 61326



**Features**

- Large-screen color display
- Flue Gas:CO,CO<sub>2</sub>,O<sub>2</sub> ,CO/CO<sub>2</sub> Ratio, Excess Air Temp, Efficiency
- Pressure measurement
- Gas Leak Detection
- Bluetooth Connects with Printer
- USB for view logger
- BLE to iOS & Android devices
- Real-time clock display
- Data logging and query function
- Automatic shutdown function

**Specifications**

Function	Range	Resolution	Accuracy
Oxygen	0-25% VOL	0.1%	±0.3%
Carbon dioxide	0-200ppm	1ppm	±10ppm
	200-2000ppm		±20ppm
Carbon monoxide (calculated)	0-21%	0.1%	±0.3%
CO/CO <sub>2</sub> ratio	0 to 0.9999	0.0001	
	-100 to 1370°C		
Flue Temperature measurement	-200 to -100°C	0.1°C	0.15%rgd + 1.0°C
XS Air	0-100%		0.5%rgd+2.0°C
Efficiency	0-100%		
Pressure Measurements	Differential Range	0.01 mbar	+/-0.5 mbar
			or 1% of reading

**Size(HxWxD):** 92mm x 185mm x 63mm

**Weight:** 706g

**Accessories:**

3.7V Li battery, USB cable, CD, gift box with carrying case.



Model 9895



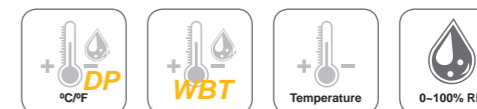


# Hand-Held Dewpoint Meter for Spot-Checking Applications



CE  
EMC  
EN: 61326

The Handheld Dewpoint Meter measures dew point temperature accurately over a wide measurement range. The probe may be inserted directly into pressurized processes, and it responds rapidly from ambient to process conditions. The sensor withstands condensation and fully recovers from getting wet. The meter is suitable for direct process dew point measurement in a wide temperature and pressure range.



### Features

- Designed for industrial spot-checking and field calibration
- Accurate measurement ranges from -50 to +30 °C (-58 to +86 °F)
- The high quality sensor, optimal for low humidity measurement
- Low maintenance need due to superior long-term stability
- Sensor withstands condensation
- Fast response, enhanced by Sensor Purge option
- Data can be logged and CSV file transferred to a PC via USB
- Compact, small and light
- CSV file Data logger
- Rechargeable lithium battery

### DP-50 probe Specifications

Function	Range	Resolution	Accuracy
Relative Humidity	0 to 100%	0.01	RH<5% ±(0.025%RH+17.5%rdg) RH>5% ±(1%RH+5%rdg) RH>15% ±(2%RH+3%rdg)
Dew point	-50~30 °C (-58~86 °F)	0.01	-40...+20°C ±2°C (±3.6°F)
Temperature	-10~60 °C (14~140 °F)	0.01	-10 ... +50 °C (+14 ... +122 °F) ±0.3°C(±0.54 °F) rest of range ±0.4°C(±0.72 °F)

Dew point response time : flow rate 0.2 m/s, 1 bar pressure, +20 °C (+68 °F) 63% [90%]  
0 -> -40 °C Td (32 -> -40 °F Td) 20 s [120 s]  
-40 -> 0 °C Td (-40 -> 32 °F Td) 10 s [20 s]

### DP-60 probe Specifications

Function	Range	Resolution	Accuracy
Dew point	-70 ~ 30 °C (-94 ~ 86 °F)	0.01	-60 ~ +20 °C ±2 °C (±3.6 °F)
Relative Humidity	0 ~ 100%	0.01	RH<5% ±(0.025%RH+17.5%rdg) RH>5% ±(0.8%RH+2%rdg)
Temperature	-10 ~ 60 °C (14 ~ 140 °F)	0.01	±0.2°C (±0.36 °F)

Dew point response time: flow rate 0.2 m/s, 1 bar pressure, +20 °C (+68 °F) 63% [90%]  
0 -> -60 °C Td (32 -> -76 °F Td) 50 s [340 s]  
-60 -> 0 °C Td (-76 -> 32 °F Td) 10 s [20 s]

### DT-8320 Professional RTD Thermometer

A digital substitute for your mercury-in-glass thermometers. Accurate and repeatable to ± 0.05 °C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

### Features

- Accuracy of ± 0.05 °C (± 0.09 °F) over full range
- Two models to choose from (-50 °C to 160 °C)
- User-configurable temperature Trend/Stability indicator
- Display temperature in °C or °F
- Optional data logging to internal memory
- Percent battery-life and low-battery indicator

### Specifications

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01 °C/°F	± 0.05 °C (± 0.09 °F)
Sensor type	100 Ω thin-film RTD		
Display units	°C, °F		

Size(HxWxD): 190mm x 75mm x 38mm

Weight: 320g

Accessories :

3.7V Li-ion battery and Sensor probe,  
Gift box with carrying case.

CE  
EMC  
EN: 61326

High Accuracy

Fast Response



Model 8321

Size(HxWxD): 190mm x 75mm x 38mm

Weight: 320g

Accessories : 3.7V Li-ion battery and Sensor probe,  
Gift box with carrying case.

Temperature

High Accuracy

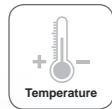
Fast Response

CE  
EMC  
EN: 61326



Model 8320





A digital substitute for your mercury-in-glass thermometers! Accurate and repeatable to  $\pm 0.05$  °C over its full range of industrial temperature calibration. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, the intrinsically-safe, battery operated, portable reference thermometer is designed to go where you work.

**Features**

- Accuracy of  $\pm 0.05$  °C ( $\pm 0.09$  °F) over full range
- Two models to choose from (-50 °C to 160 °C)
- User-configurable temperature Trend/Stability indicator
- Display temperature in °C or °F
- Optional data logging to internal memory
- Percent battery-life and low-battery indicator

**Specifications (1616)**

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01 °	$\pm 0.05$ °C ( $\pm 0.09$ °F)
Sensor type	100 $\Omega$ thin-film RTD		
Display units	°C, °F		

**Specifications (1616B)**

Function	Range:	Resolution	Accuracy
Temperature	-50 °C to 160 °C (-58 °F to 320 °F)	0.01 °	$\pm 0.1$ °C ( $\pm 0.18$ °F)
Sensor type	100 $\Omega$ thin-film RTD		
Display units	°C, °F		

**Size(HxWxD):** 54mm x 31mm x 480mm

**Weight:** 220g

**Accessories :**

2 x 1.5V "AA" batteries and Sensor probe,  
Gift box with carrying case.



Model 1616

High Accuracy

Fast Response



EMC  
EN: 61326



8516 light meter provides accurate display light level in terms of Foot Candles FC or LUX over wide range. Just turning the Function Switch to select the "lux" scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance nominal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

**Features**

- 2.4" TFT color display
- Auto Ranging
- Max./Min/AVG function
- Auto Power Off
- Low battery indication
- User selectable FC/Lux
- Capacity for data logging (99 readings)
- Total accuracy: for C.I.E standard illuminate A(2856K)
- Bluetooth interface with Smart phone APP

**Specifications**

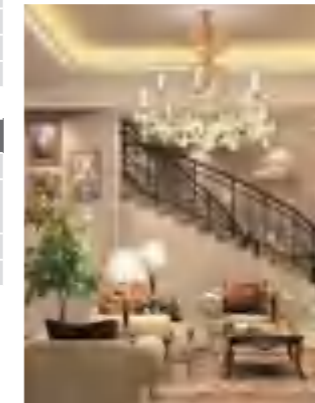
Measuring range	400,000Lux
Accuracy	$\pm 5\% \pm 10d$ (<10,000Lux) $\pm 10\% \pm 10d$ (>10,000Lux)
Max Resolution	0.1Lux/0.01Fc
Bluetooth interface	*

**Size(HxWxD):** 185mm x 68mm x 45mm

**Weight:** 248g

**Accessories :**

3.7V Li-battery, USB cable, software, Carrying case  
and Gift box.



EMC  
EN: 61326



Model 8516

DT-8517 Professional Smart Hot Wire Anemometer Meter with Thermocouple Thermometer

8517 Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 20m/s.



**Features**

- 2.4" TFT color display
- Single-point and continuous data log options
- Velocity alarm
- A bluetooth telescoping probe
- Type K/Type J input
- Auto power off
- Low-battery indication
- Data hold
- Probe sensor cover
- Bluetooth interface with Smart phone APP

**Specifications**

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second )	0.1~30m/s	0.01m/s	$\pm 5\% + 0.03$ m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	$\pm 5\% + 6ft$ /min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	$\pm 5\% + 0.1$ km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	$\pm 5\% + 0.1$ MPH
Air Temperature	-20~60°C (-4~140°F)	0.1°C/0.1°F	0.5°C (0~45°C), 1.0°C (rest of range) 1.0°F (32~113°F), 2.0°F (rest of range)
Type K/ Type J	-200°C to 1372°C (-328°F to 2501°F)	0.1°C/0.1°F	
	Above-100°C (-148°F)	0.1°C/0.1°F	$\pm [0.15\%rdg + 1^\circ C (1.8^\circ F)]$
	Below -100°C (-148°F)	1°C/1°F	$\pm [0.5\%rdg + 2^\circ C (3.6^\circ F)]$

**Size(HxWxD):** 185mm x 68mm x 45mm

**Weight:** 248g

**Accessories :**

3.7V Li-battery, USB cable, software, Carrying case  
and Gift box.



Model 8517



EMC  
EN: 61326



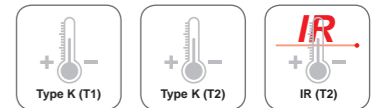
# Professional Thermocouple Thermometers



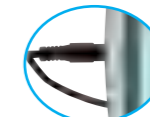
8891/8891A/8891B/8891C/8891D/8891E contact thermometers offer fast response and laboratory accuracy. These thermometers work with K-type thermocouples and one IR temperature probe as temperature sensors, and offer 0.1 °C/0.1 °F resolution.

- Large backlit display shows any combination of T1, T2, T3, T1-T2, T1-T3, T2-T3 plus MAX, MIN, AVG
- Relative time clock on MAX, MIN and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F, or Kelvin (K)
- USB interface, USB to UART Bridge Controller(8891C/8891D/8891E)
- 18,000 records data logger per channel(8891C/8891E)
- Auto Power Off mode (Sleep mode) energy saver

Type K Dual inputs (8891A)



Type K Dual inputs with IR Thermometer (8891)



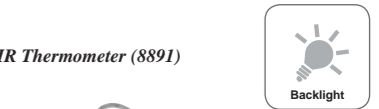
Infrared Input



Temperature probe (Optional)



Thermistor clamp (Optional)



Model 8891

## Features

	8891	8891A	8891B	8891C	8891D	8891E
User Selectable °C, °F or K	*	*	*	*	*	*
0.1 °C/0.1 °F/0.1K resolution.	*	*	*	*	*	*
Type K Single input			*			
Type K Dual inputs	*	*		*		
Type K four inputs					*	*
IR temperature input	*		*	*	*	*
Max/Min/Avg Hold and Data Hold	*	*	*	*	*	*
Differential Temperature	*	*	*	*	*	*
Scan Function(T1,T2,T3,T-T2.....)	*	*	*	*	*	*
LCD display with backlight	*	*	*	*	*	*
Wide variety of interchangeable Thermocouple Probes	*	*	*	*	*	*
Auto Power Off	*	*	*	*	*	*
USB interface				*	*	*
Data logging function				*		*

## Specifications

	Range	Basic Accuracy	8891	8891A	8891B	8891C	8891D	8891E
Type K	-200°C to 1372°C (-328°F to 2501°F)		T1,T2	T1,T2	T1	T1,T2	T1,T2, T3,T4	T1,T2, T3,T4
	Above -100°C (-148°F)	±[0.15%rdg+1°C(1.8°F)]						
	Blow -100°C (-148°F)	±[0.5%rdg+2°C(3.6°F)]						
IR temperature	-30°C to 550°C (-22°F to 1022°F)		T3		T2	T3	IR	IR
	Above -10°C(14°F)	±[2.0%rdg+2°C(3.6°F)]						
	Blow -10°C(14°F)	±5°C(9.0°F)						
Type K- Type K temperature		±[0.5%rdg+1°C(1.8°F)]	T1-T2		T1-T2	T1-T2	T1-T2, T3-T4	T1-T2, T3-T4
Type K-IR temperature	IR temperature							
	Above -10°C(14°F)	±[2.0%rdg+3°C(5.4°F)]	T1-T3, T2-T3		T1-T2	T1-T3, T2-T3	T1-IR, T2-IR	T1-IR, T2-IR
	Blow -10°C(14°F)	±6°C(10.8°F)						
IR-Type K temperature	IR temperature							
	Above -10°C(14°F)	±[2.0%rdg+3°C(5.4°F)]					IR-T3, IR-T4	IR-T3, IR-T4
	Blow -10°C(14°F)	±6°C(10.8°F)						

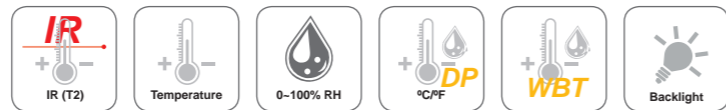


Model 8891E

Size(HxWxD): 203mm x 75mm x 50mm  
Weight: 280g

Accessories : 9V battery, Type K temp probe, IR temp probe(8891/8891B/8891C/8891D/8891E), USB cable(8891C/8891D/8891E), software(8891C/8891D/8891E), Carrying case and Gift box.





3 in 1

%RH, Type K & IR Temperature



EMC EN: 61326



Model 8896

The Psychrometer with InfraRed Thermometer has been designed to combine the functions of Humidity meter, Type K Thermometer and Infrared Thermometer.

**Features**

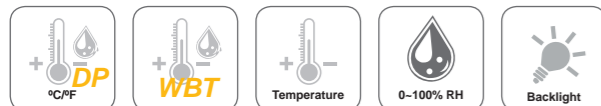
- Infrared to measure surface temperature with laser indication
- Triple digital LCD display & Backlight
- Slim design with rubberized sides for better grip and for one hand operation
- Auto Power off & low battery indication
- Accurate reading & Fast response time
- Simultaneous display of: Humidity/Temperature; Humidity/Dew Point; Humidity/Wet Bulb
- Highest 30 to 1 distance to target ratio measures smaller surface areas at greater distances.

**Specifications**

Function	Range	Resolution	Accuracy
Type K Temperature	-100~1372°C(-148~2501°F)	0.01°C/°F	±3% ±0.20m/s
InfraRed Temperature	-50 to -20°C(-58 to -4°F)	0.1°C/°F	± 5.0°C(9.0°F)
	-20 to 500°C(-4 to 932°F)	0.1°C/°F	±2% reading or ±2°C(3.6°F)
Air Temperature	-10-60°C(14-140°F)	0.1°C/°F	± 2.0°C(3.6°F)
Humidity	0%~99.9%RH	0.1%RH	±2%RH
Dew Point Temp.	-30°C~100°C(-22°F~199°F)	0.1°C/°F	±0.5°C/0.9°F
Wet Bulb Temp.	0°C~80°C(32°F~176°F)	0.1°C/°F	±0.5°C/0.9°F

**Size(HxWxD):** 255mm x 75mm x 50mm **Accessories :** 9V battery, type K temperature probe and gift box with carrying case.  
**Weight:** 350g

**DT-8892 Professional Hygro-Thermometer Psychrometer**



%RH, Temperature, Dew point, Wet bulb, absolute Humidity, Mixing ration

Mixing ration/ Temperature

**Features**

- Highest 2% RH accuracy with fast response time
- Large LCD display of: Humidity/Temperature;
- Humidity/Dew Point; Humidity/Wet Bulb
- Auto power off and low battery indication
- High Performance
- Max Hold and Data Hold Function
- Dual Display & Backlight

**Specifications**

Function	Range	Basic Accuracy(%rdg+digits)
Humidity	0°C~10%RH, 90°C~100%RH	±3%RH
	10°C~90%RH	±2%RH
Temperature	-30°C~100°C/-22~199°F	±0.5°C/0.9°F
	-20°C~60°C/-4~140°F	±2°C/3.6°F
Dew point Temp	-30°C~100°C/-22~199°F	±0.5°C/0.9°F
Wet Bulb Temp	0°C~80°C/32~176°F	±0.5°C/0.9°F

**Size(HxWxD):** 255mm x 45mm x 34mm **Accessories :** 9V battery and gift box with carrying case  
**Weight:** 200g



High Quality Sensor

Model 8892



EMC EN: 61326

3610B/3630/3891F/3891G contact thermometers offer fast response and laboratory accuracy. These thermometers work with K-type/J-type thermocouples and offer 0.1 °C/0.1 °F resolution.

- Large backlit display shows any combination of T1, T2, T3, T1-T2, T1-T3, T2-T3 plus MAX, MIN, AVG
- Relative time clock on MAX, MIN and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F, or Kelvin (K/J)
- USB interface, USB to UART Bridge Controller(3891F/3891G)
- 18,000 records data logger per channel(3891F/3891G)
- Auto Power Off mode (Sleep mode) energy saver

**Features**

	3610B	3630	3891F	3891G
User Selectable °C, °F or K	*	*	*	*
0.1 °C/0.1 °F/0.1K resolution.	*	*	*	*
Type K/Type J Single input	*			
Type K/Type J Dual inputs		*	*	
Type K/Type J four inputs				*
Max/Min/Avg Hold and Data Hold	*	*	*	*
Differential Temperature		*	*	*
Scan Function(T1,T2,T3,T-T2.....)	*	*	*	*
LCD display with backlight	*	*	*	*
Wide variety of interchangeable Thermocouple Probes	*	*	*	*
Auto Power Off	*	*	*	*
USB interface			*	*
Memory Readings			18,000	18,000

**Specifications**

	Range	Basic Accuracy	3610B	3630	3891F	3891G
Type K	-200°C to 1372°C (-328°F to 2501°F)	±[0.15%rdg+1°C(1.8°F)]	T1	T1,T2	T1,T2	T1,T2,T3,T4
Type J	-210°C to 1100°C (-346°F to 2012°F)	±[0.15%rdg+1°C(1.8°F)]	T1	T1,T2	T1,T2	T1,T2,T3,T4
Type K- Type K/ Type J- Type J temperature		±[0.5%rdg+1°C(1.8°F)]		T1-T2	T1-T2	T1-T2, T3-T4

**Size(HxWxD):** 160mm x 58mm x 27mm  
**Weight:** 350g

**Accessories :** 9V battery, type K temperature probe and gift box with carrying case.



Model 3891G

Model 3610B



EMC EN: 61326





Model 630



EMC  
EN: 61326

- Type K thermometer with single or dual input direct or differential measurements to 0.1°
- Accuracy to 0.15% °C or °F readout (630)
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F, or Kelvin(K)
- Auto Power Off (Sleep mode) prolongs battery life

Features	9610B	9612	629	630
User Selectable °C or °F	*	*	*	*
User Selectable 0.1°C or 1°C(0.1°F or 1°F) Resolution	*	*	*	*
Type K Thermocouples	*	*	*	*
Single Thermocouple Input	*		*	
Dual Thermocouple Input		*		*
Wide variety of interchangeable Thermocouple Probes	*	*	*	*
Max Hold and Data Hold	*	*	*	*
Differential Temperature (T1-T2)		*	*	*
SCAN Function (T1, T2, T1-T2, MAX, HOLD.....)		*	*	*
LCD display with backlight			*	*

Specifications	9610B / 629	9612	630
Function			
Temperature	-50~1300°C		
	-58~2000°F		
Resolution	0.1° or 1°		

Specifications (630)	Basic Accuracy
Range: -200°C to 1372°C (-328°F to 2501°F)	
T1, T2 Above -100°C (-148°F)	±[0.15%rdg+1°C(1.8°F)]
T1, T2 Blow -100°C (-148°F)	±[0.5%rdg+2°C(3.6°F)]
T1-T2	±[0.5%rdg+1°C(1.8°F)]
Type K Temperature Resolution	0.1°C/°F/K<1000°; 1°C/°F/K>1000°

**Size(HxWxD):** 188mm x 64.5mm x 24.5mm (9610B/9612)

**Weight:** 160g (9610B/9612)

**Size(HxWxD):** 220mm x 63mm x 28mm (629/630)

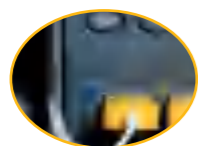
**Weight:** 200g (629/630)

**Accessories :**

9V battery, Holster with stand and Temperature probe.



Model 9612



Single or Dual Thermocouple Input

DT-1370 Thermometer



Model 1370



EMC  
EN: 61326

The 1370 contact thermometer offer fast response, offer 0.1°C/0.1°F resolution over the entire measurement ranges.

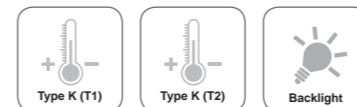
- Selectable °C or °F
- Data Hold
- Auto power off
- Overrange indication

Specifications	
Range	-50°C to 200°C(-58°F to 392°F)
Resolution	0.1°C/°F
Basic Accuracy	±2%±1°C/±1.8°F

**Size(HxWxD):** 113mm x 61mm x 13mm

**Weight:** 90g

**Accessories:** Clamshell



The 610B (single input) and 612(dual inputs) contact thermometers offer fast response and laboratory accuracy. The DT-613 (dual inputs) is a microprocessor-based digital thermometer designed to use external type K thermocouples (temperature probes) as temperature sensors. These thermometers work with type K thermocouples and offer 0.1°C/0.1°F resolution over the entire measurement range. A rugged holster protects three models.

- Type K thermometer with single or dual inputs direct or differential measurements to 0.1°
- Accuracy to 0.15% °C or °F readout (613)
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Readout in °C, °F, or Kelvin(K)
- Auto Power Off (Sleep mode) prolongs battery life



EMC  
EN: 61326



Optional



Single or Dual Thermocouple Input



Large, easy-to-read LCD display with backlight



Model 613

Features	610B	612	613
User Selectable °C or °F	*	*	*
User Selectable 0.1°C or 1°C(0.1°F or 1°F) Resolution	*	*	*
Type K Thermocouples	*	*	*
Single Thermocouple Input	*		
Dual Thermocouple Inputs		*	*
Wide variety of interchangeable Thermocouple Probes	*	*	*
Max Hold and Data Hold	*	*	*
Differential Temperature (T1-T2)		*	*
SCAN Function (T1, T2, T1-T2, MAX, HOLD.....)		*	*
LCD display with backlight	*	*	*

Specifications	610B	612	613
Function			
Temperature	-50~1300°C		
	-58~2000°F		
Resolution	0.1° or 1°		

Specifications (613)	Basic Accuracy
Range: -200°C to 1372°C (-328°F to 2501°F)	
T1, T2 Above -100°C (-148°F)	±[0.15%rdg+1°C(1.8°F)]
T1, T2 Below -100°C (-148°F)	±[0.5%rdg+2°C(3.6°F)]
T1-T2	±[0.5%rdg+1°C(1.8°F)]
Type K Temperature Resolution	0.1°C/°F/K<1000°; 1°C/°F/K>1000°

**Size(HxWxD):** 165mm x 76mm x 43mm

**Weight:** 403g

**Accessories :**

9V battery, Holster with stand, Type-K Temperature probe and gift box with carrying case.

Dual Temperature inputs (612/613)

High Accuracy to 0.15% (613)



Model 610B

Model 612





Model 615



Model 625



Model 616CT



Large LCD display



EMC  
EN: 61326



High Performance and quality sensor

625 is digital Humidity & Temperature Meter with Wet Bulb Temperature & Dew Point temperature, which has been designed to combine the functions of Humidity Meter, Temperature Meter, Wet Bulb Temperature and Dew point temperature.

It is an ideal Humidity & Temperature Meter with scores of practical applications for laboratorial, industrial, Engineer and professional use.

615 is Humidity meter with Air and type K thermocouple thermometer.

- Large, easy-to-read backlit LCD with dual display
- Fast Response Time: 10s (90% at 25°C still air)
- 2% High Accuracy (625)
- Dew Point Temperature (-30°C~100°C/-22°F~199°F) (625)
- Wet Bulb Temperature (0°C~80°C/32°F~176°F) (625)
- Resolution 0.1%RH, 0.1°C/0.1°F
- Max/Min Hold and Data Hold Function (625)
- Microprocessor-based Design (625)
- Dual Display Temperature & Humidity

Features	615	625	635	616CT
Large dual digital LCD display with backlight	*	*	*	*
Response Time: 10s (90% at +25°C still air)	*	*	*	*
Sampling Rate: 2.5 samples per second	*	*	*	*
Dew Point Temperature & Wet Bulb Temperature		*	*	
2% High Accuracy		*	*	*
Dual Display Temperature & Humidity	*	*	*	*
Type K temperature	*		*	
Non-contact IR temperature				*

Specifications	Function	Range	Resolution	Basic Accuracy	615	625	635	616CT
Humidity		0°C~100%RH	0.1%RH	±2%RH		*	*	*
Temperature		-30°C~100°C/-30°F~199°F	0.1°C/°F	±0.5°C/0.9°F		*	*	*
Type K Temp.		-20°C~1000°C/ -4°F~1832°F	0.1° up to 200°, 1° over 200°	±3%	*		*	
Dew Point Temp.		-30°C~100°C/-22°F~199°F	0.1°C/°F	±1.0°C/1.8°F		*	*	
Wet Bulb Temp.		0°C~80°C/32°F~176°F	0.1°C/°F	±1.0°C/1.8°F		*	*	
IR temp.		-50°C~500°C/-58°F~932°F	0.1° up to 200°, 1° over 200°	±2.0%±2°C/4°F				*

Size(HxWxD): 225mm x 45mm x 34mm

Weight: 200g

Accessories:

Carrying case, type K temperature probe (615/635) and 9V battery.



321 is compact probe size digital Hygro-Thermometer, ideal for field use with high performance.

321S is fast response, high accuracy digital Hygro-Thermometer with Dew point & Wet bulb Temperature measurement.

321F with 8 inches Gooseneck detector is easy to measure the hard-reached areas. It's fast response, high accuracy digital Hygro-Thermometer with Dew point & Wet bulb Temperature measurement.

8" inch Gooseneck detector (321F)

- Fast Response
- High Accuracy



EMC  
EN: 61326



High Quality Sensor



Model 321S

Features	321	321S/321F
Mini size	*	*
Fast Response Time	*	*
High Accuracy		*
High Performance	*	*
Max Hold and Data Hold Function	*	*
Dual Display & Backlight	*	*
Dew Point & Wet Bulb Temperature		*

Specifications	Function	Range	Basic Accuracy	321	321S/321F
Humidity		0~100%RH	±2%RH		*
			±3.5%RH	*	
Temperature		-30~100°C/ -22~199°F	±0.5°C/0.9°F		*
		-20~60°C/ -4~140°F	±2°C/3.6°F	*	
Dew Point Temp.		-30~100°C/ -22~199°F	±0.5°C/0.9°F		*
Wet Bulb Temp.		0~80°C/ 32~176°F	±0.5°C/0.9°F		*

Size(HxWxD): 255mm x 45mm x 34mm

Weight: 200g

Accessories:

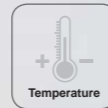
9V battery and gift box with carrying case.







Model 325B



Model 325E



Model 325B



Model 325F



Model 325C

Specifications

Model	DT-325A	DT-325B	DT-325C	DT-325D	DT-325E	DT-325F	DT-325G
	Big Digit Hygro-Thermometers				Big Digit Thermometers		
	Indoor Thermometer	Indoor/Outdoor Hygro-Thermometer	Dual input Indoor/Outdoor Hygro-Thermometer	Dual input Indoor/Outdoor Hygro-Thermometer with Alarm & Time	Dual input Indoor/Outdoor Thermometer	Indoor/Outdoor Type-T probe input & longer cable length Thermometer	Indoor/Outdoor high accuracy refridge bottle probe only Thermometer
Temperature Range	-10°C to 60°C (14 to 140°F)	-10°C to 60°C (14°F to 140°F)	(-10°C to 60°C) 14°F to 140°F	-10°C to 60°C (14°F to 140°F)	-10 to 60°C (14 to 140°F)	-50°C to 70°C (-58°F to 158°F)	
Temperature Accuracy	±1.8F	±1.8F	±1.8F	±1.8F	±1.8F	±1.0F	
Temperature Resolution	0.1°	0.1°	0.1°	0.1°	0.1°	0.1°	
Humidity Range	10 to 99%	10 to 99%	10 to 99%	10 to 99%	No	No	
Humidity Accuracy	±4%	±4%	±4%	±4%	No	No	
Humidity Resolution	1%	1%	1%	1%	No	No	
Dew point temperature	NO	No	No	Yes	No	No	
MAX/MIN	No	No	Yes	Yes	No	YES	
Alarm (sound & display)	No	No	No	Yes	No	YES	
Date, time	No	No	No	(Yes)	No	Yes	
Cabel Length	No	5ft(1.5m)	5ft(1.5m)	5ft(1.5m)	10t(3m)	10ft(3m)	
Remote Probe type		Hard wired	Hard wired	Hard wired	Hard wired	Hard wired	plug-probe
Power	2 x1.5V AA Batteries						
Low battery indication	Yes						
°F/°C	Yes						

Size(HxWxD): 108mm x 103mm x 25mm  
Weight: 201g

Accessories :  
battery, gift box and carrying case.

Features

	3321	3322
User selectable NTC or Type K measure	*	*
Dew Point Temperature measure	*	*
Wet Bulb Temperature measure	*	*
Dry Bulb Temperature measure	*	*
Calculate the Target Superheat		*
Calculate the Target Evaporator Exit Temperature		*
User selectable °C & °F	*	*
MAX,MIN ,HOLD modes	*	*
Dual display with backlight	*	*
Automatic Power Off	*	*
Low battery display	*	*

Specifications

Function	Range	Resolution	Basic Accuracy	3321	3322
Humidity	0~100%RH	0.1% RH	±2%RH	*	*
Temperature	-30~100°C/-30~199°F	0.1°C/°F	±0.5°C/0.9°F	*	*
Type K Temp.	-50~1372°C/-58~2501°F	0.1°C/°F	±0.15%±1°C/1.8°F	*	*
NTC	0~60°C/32~140°F	0.1°C/°F	±0.5°C/0.9°F	*	*
Dew Point Temp.	-30~100°C/-22~199°F	0.1°C/°F	±1°C/1.8°F	*	*
Wet Bulb Temp.	0~80°C/32~176°F	0.1°C/°F	±1°C/1.8°F	*	*

3321 is a complete digital psychrometer and a very valuable HVAC diagnostic tool. As a psychrometer, it measures wet bulb(WB), dry bulb(DB), percent relative humidity(RH%), and dew point(DP). 3322 is a diagnostic tool, it helps the HVAC technician easily diagnose problems with air flow across the evaporator. It can also calculate the target superheat of a fixed restrictor air conditioning system.

Model 3322

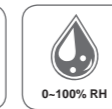
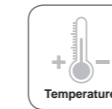


High Accuracy

Fast Response



High Performance and quality sensor



Large, easy-to-read LCD display with backlight



Buttons on both sides of the rugged housing, easy to use

Model 3321



Size(HxWxD): 220mm x 63mm x 28mm (3321)

Weight: 200g (3321)

Size(HxWxD): 187mm x 63mm x 28mm (3322)

Weight: 176g (3322)

Accessories :

Type K temperature probe (3322) and 9V battery, gift box and carrying case.

DT-322/323 Interior Temperature Hygrometer

Features

Environment Comfort Display: COMFORT, WET, DRY  
Time/Temperature/Humidity display  
°C/°F Temperature units the way self-locking switch show  
Highest/Lowest Temperature and Humidity memory function  
Calendar shows the whole point timekeeping, daily alarm functions, 12/24 hour clock

Specifications

Temperature Range	0 ~ 50°C/32 ~ 120°F
Temperature Accuracy	± 1.0°C/1.8°F
Temperature Resolution	0.1°C/0.1°F
Humidity Range	10% RH ~ 90% RH
Humidity Accuracy	± 5% (40% RH ~ 80% RH) other ± 8%

Size(HxWxD): 108mm x 60mm x 15mm

Weight: 74g

Accessories :

battery, gift box and carrying case.



Model 322



Model 323







# Multifunction Moisture Meter with Psychrometer & IR Thermometer



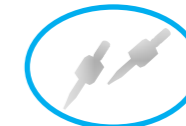
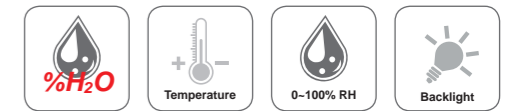
Multifunction Moisture Meter with Built-in Psychrometer and IR Thermometer. Monitoring the moisture in wood and other building materials with virtually no surface damage with the Non-Penetrating Moisture sensor. Measuring Humidity and Air Temperature with built-in probe plus non-contact InfraRed Temperature design.

### Features

- Quickly indicates the moisture content of materials with Pinless technology without damaging the surface (239)
- Easy to read, large dual display with automatic backlight feature
- Simultaneously displays moisture value of wood or material being tested, Air Temperature, Humidity and IR Temperature
- Pinless measurement depth to 0.75" (19mm) below the surface (239)
- Programmable high/low Moisture and Humidity alarms
- Designed with an IR circuit to measure non-contact surface temperature; 8:1 distance to spot ratio with 0.95 fixed emissivity
- Built-in Humidity/Temperature probe measures Relative Humidity, Air Temperature plus Grains Per Pound (GPP)/(g/kg), Dew Point (DP), Vapor Pressure, and condensation point
- Automatic calculation of differential Temperature (IR - DP) to determine condensation point
- Min/Max and Data Hold
- Auto power off and low battery indication

### Specifications

		229	239
<b>Pin-type moisture Measurement</b>			
Range	0 to 99.9 (Relative)	*	*
Accuracy (of reading)	±5%	*	*
Resolution	0.1	*	*
<b>Pinless Moisture Measurement</b>			
Range	0 to 99.9 (Relative)	*	*
Accuracy (of reading)	±5%	*	*
Resolution	0.1	*	*
Pinless Depth	up to 0.75" (19mm)	*	*
<b>IR Temperature Measurement</b>			
Range	-50 to 200°C(-58 to 392°F)	*	*
Distance to Spot size	8:1 Distance to Spot size	*	*
Emissivity	0.95	*	*
Response Time	Less than 1 second	*	*
Resolution	0.1	*	*
Basic Accuracy	±3.5°C(±6.3°F)	*	*
<b>Air Temperature Measurement</b>			
Air Temp Range	-28 to 77°C/-20 to 170°F	*	*
Basic Accuracy	±2°C/3.6°F	*	*
Humidity Range	0 to 100%RH	*	*
Basic Accuracy	±5%RH @0% to 20% and 80% to 100% ±3.5%RH @20% to 80%	*	*
Vapor Pressure	0 to 20.0kPA	*	*
Dew Point	-22 to 199°F (-30 to 100°C)	*	*
Mixing ratio	0 to 999GPP (0 to 160g/kg)	*	*



replaceable pin



Model 229

CE  
EMC  
EN: 61326



Model 239



Measure moisture of wall material with non-invasive Pinless technology



Pinless moisture measurements



Patented IR thermometer design locates cold spots on walls, which identifies surfaces subject to condensation (direct differential display of IR - DP)

Size(HxWxD): 170mm x 70mm x 38mm  
Weight: 280g  
Accessories: Gift Box with Carrying Case





Model 123L



Model 123H



EMC  
EN: 61326



123/123H/123L/125/125B/127 are used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). They display the moisture level. The instruments have an average adjustment for European wood based on a wood temperature of 20°C.

127 is 2 in 1 digital and analog moisture meter

123L is 2 in 1 digital and analog moisture meter with flashlight

**Features**

- Large LCD display
- Readings with Moisture Probe or Hammer Electrode
- Readings with Integral electro Pins

**Specifications**

Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-44%
	Material: 0.2-2.0%
Display Accuracy	Wood: ±1%
	Material: ±0.05% (127)
Battery	3 x Cr 2032, replaceables
Ambient temperature	0-40°C
Ambient humidity	0-85%

Size(HxWxD): 123/123L/127: 130mm x 40mm x 33mm

Weight: 99g

Size(HxWxD): 125/125B: 140mm x 48mm x 33mm

Weight: 93g



Model 125



Model 125B



replaceable pin



Model 123



Accessories :  
battery, clamshell



Calibration and battery check

129 is a conductivity moisture instrument designed for use in wood, used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). They display the moisture level. The instruments have an average adjustment for European wood based on a wood temperature of 20°C.

129B is with various professional remote probe.

- Large LCD display
- Automatically Temperature Corrected (ATC) Readings when used with the temperature probe
- Readings with Moisture Probe or Hammer Electrode
- Readings with Integral electro Pins



Built in Pins



Model 129

**Features**

- Large LCD display
- Readings with Moisture Probe or Hammer Electrode
- Automatically Temperature Corrected (ATC) Readings when used with the temperature probe
- Readings with Integral electro Pins

**Specifications**

Measuring principle	Electrical resistance
Electrode length	8mm
Electrodes	Integrated, replaceable
Measuring range	Wood: 6-99.9%
Display Accuracy	Wood: ±1%
Battery	2 x AAA
Temperature measuring	0-60°C
Ambient temperature	0-40°C
Ambient humidity	0-85%

Size(HxWxD): 180mm x 50mm x 31mm

Weight: 175g

Accessories :

Gift Box with Carrying Case



Optional remote probe

DT-190 Moisture Datalogger

**Features**

- Recording and alarm setup and indication
- Readings with Moisture Probe or Hammer Electrode
- Real-time data transmission
- Low battery indication

**Specifications**

Measuring range	Wood: 6 - 99.9 %
	Building material: 6 - 99.9 %
	Ambient temperature: -40 to 70°C (-40 to 158°F)
	Ambient Relative Humidity: 0 to 100%
Accuracy	Wood: ±1 %
Ambient temperature	-40 °C~ -10°C and +40 ~ +70°C / ±2°C
	-10 °C~ +40°C / ±1°C
Ambient Relative Humidity	0~20% and 80 ~ 100% /±5.0%
	20~ 80%/±3.5%
Memory	50000 readings
Measuring rate	2sec. to 24h
Professional remote probes	YES

Size(HxWxD): 145mm x 35mm x 30mm Weight: 49g

Accessories : 3.6V Lithium battery, software and clamshell.



Model 190







EMC  
EN: 61326



**Features**

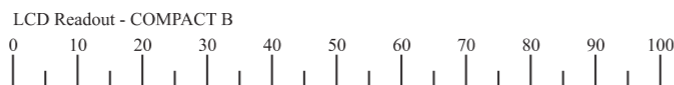
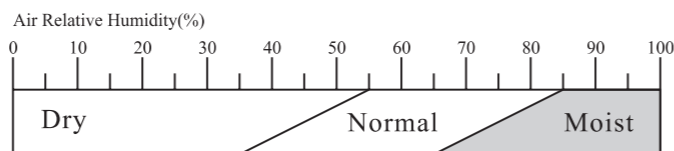
- Quickly indicate the moisture content of materials
- Depth of penetration about 20-40mm.
- Low battery indication
- MAX/MIN Function
- HOLD Function
- Auto Power Off
- White Backlit LCD Display

**Specifications**

Sensor Type	metal spheroid
Measuring Range	0 to 100 digit
Max Resolution	1
Battery	9V battery
Dimensions	189 x 47 x 35mm
Weight	178g

Accessories:  
9V battery and gift box

**Table of Comparison** Air Relative Humidity Structural Moisture



Gypsum+anhydrite based constr.mat./flooring - Wt./CM-%	0.3	0.5	1.4	2.0	2.5	2.7	%
Cement based constr.mat. and flooring in CM-%	1.5	2.1	3.0	3.5	4.0	CM-%	
Cement based constr.mat. and flooring in weight-%	2.7	3.6	4.5	5.5	6.0	Wt-%	

CM% = percentage value by carbide method

128M/128H is the NON-Contact Moisture Meter. It is an electronic dampness indicator with a measuring process working on the principle of high frequency. The instrument is used for non-destructively tracing dampness in building materials of all kinds as well as for detecting damp distribution in walls, ceilings and floors. It is particularly suitable for pre-testing the readiness of building materials for covering prior to CM measurement.

**Features**

- Quickly indicate the moisture content of materials
- CM % measured function
- Depth of penetration about 20-40mm with alarms.
- Measure and HOLD Function
- MAX/MIN display Function
- Programmable moisture alarms
- Auto Power Off & low battery indication
- White Backlit LCD Display
- Multiple Material Groups (128H)

**Specifications**

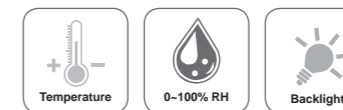
Measuring Range	0.0-100.0 %
Penetration Depth	20-40mm
Resolution	0.1
Battery	Three "AAA" Batteries

**Moisture Table of Comparison**

Construction material	Display	Moisture status
Gypsum	<30 digits	dry
	30 - 60 digits	at risk
	>60 digits	wet
Cement	<25 digits	dry
	25 - 50 digits	at risk
	50 - 75 digits	wet
	>75 digits	all wet

Size(HxWxD): 242mm x 63mm x 30mm  
Weight: 226g

Accessories:  
3x"AAA" V battery, gift box with carrying case.



Button on both sides of the rugged housing, easy to use



EMC  
EN: 61326

Model 128H



**DT-126H Pinless Moisture Meter**

126H is designed to non-invasively detect hidden moisture content up to 3/4-Inch (19 mm) depth. Easily select between materials with mode button to test surface of drywall, masonry, hardwood, and softwood. The 126H has easy viewing with bright, reverse-contrast display and LED bar graph

**Features**

- Pinless, electromagnetic field (EMF) technology allows for nondestructive detection of moisture content in building materials
- Detects moisture content up to 3/4-Inch (19 mm) deep
- Easy viewing with bright reverse-contrast display
- Nine LED bars indicate moisture range
- Easy-to select materials with mode button; drywall, masonry, hardwood, and softwood
- Hold, Low battery, and Auto-Power off functions
- Built to withstand a 6.6 foot (2 m) drop

**Specifications**

Sensing Depth	3/4" (19 mm)
Moisture Reading Range	0 to 100%
Display Resolution	0.1%
Measurable Materials	Drywall, Masonry, Hardwood, Softwood
Display	Bright Reverse-Contrast Display and a Nine LED Bar Graph
Application	Detect Moisture Content and Water seepage/Leakage
Special Features	Audible Alert, Auto-Power Off, Visual Notification

Size(HxWxD): 180mm x 67mm x 38mm  
Weight: 180g  
Accessories:  
9V battery, gift box with carrying case.



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EN: 61326

**Laser line & External Level**



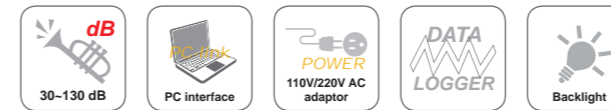
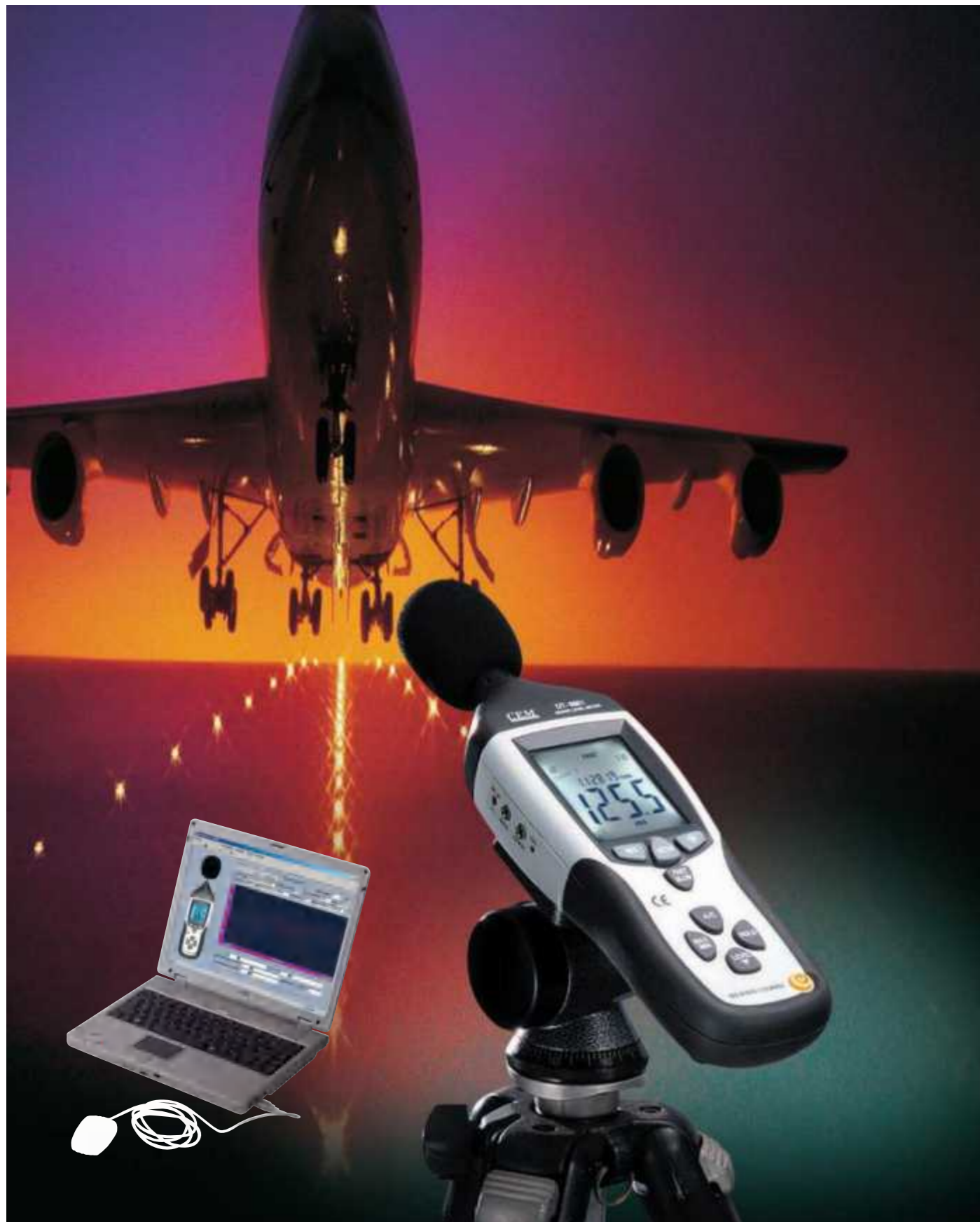
**Non-contact moisture sensor**



Model 126H



Sound Level Meters



8851/8852 Sound Level Meters are designed for noise Control project, quality control, illness prevention & cure and all kinds of environmental sounds measurements. It is applied to the sounds measurement at factory, school, office, hospital, traffic access and household etc.

Features

- This unit conforms to the IEC61672-1 class 2 for Sound Level Meters
- MAX & MIN measurements
- Overrange display
- A & C Weighting
- FAST & SLOW response
- Analog AC/DC outputs for connection to frequency analyzer or X-Y shaft recorder
- Datalogger function (8852)
- Adjustable Alarm-Levels (8852)
- Memory for 32700 readings (8852)

Specifications

Standard conformity	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5HZ ~ 8KHZ
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB Hi:80dB~130dB Auto:30dB~130dB
Time weighting	FAST ( 125mS ), SLOW ( 1s )
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Display Update	2 times/sec
Analog output	AC/DC outputs, AC=1Vrms, DC=10mV/dB



**Accessories :**  
Battery, screwdriver, audio plug, windscreen, software, USB cable, tripod and DC 9V power supply and gift box with carrying case.



EMC  
EN: 61326

1.4dB Accuracy

Level range: 30~130dB



Time weighting & Frequency weighting, Current reading



Analog AC/DC outputs



Model 8851



**Size(HxWxD):** 278mm x 76mm x 50mm  
**Weight:** 350g



**Features**

- 94dB and 114dB Sound Calibration at 1kHz
- Accurate and simple to use
- Fits 1/2" diameter microphone

**Specifications**

Output Sound Pressure Levels	114dB and 94dB re 20 uPa under reference conditions.
Output Frequency	1000Hz, ±4%
Reference Temperature Conditions	>23°C (73°F)
Atmospheric pressure	>1013 mbar (760mm of Hg)
Relative humidity	>65% RH
Accuracy of Sound Pressure Level	Under stated reference environment conditions ±0.5dB



Model SC-05



**Size(HxWxD):** 120mm x 50mm x 42mm  
**Weight:** 278g

**Accessories:**  
9V battery, Carrying case, 1/2" Microphone  
Adaptor (optional) and Clamshell.

**DT-8850 Sound Level Meter**



Model 8850



CE  
EMC  
EN: 61326

8850 Sound Level Meter can be used to measure noise in factories, schools, offices, airports and home etc, checking acoustics of studios, auditoriums and Hi-Lo installations. 8850 meets IEC 61672-1 Type 2 standards. The 30 to 130 dB range makes this meter ideal for all general purpose sound level measurements.

1.4dB Accuracy

**Features**

- Provides 1.4dB accuracy
- Meets IEC61672-1 type 2 standards
- Newly Design Shape
- High Performance
- Max Hold and Data Hold Functions
- Analog AC/DC outputs for connection to an analyzer or recorder
- Built-in calibration check

**Specifications**

Range	Lo (Low)-Weighting: 35dB~100dB
	Hi (High)-Weighting: 65dB~130dB
Frequency Weighting: A/C	Lo (Low)-Weighting: 35dB~100dB Hi (High)-Weighting: 65dB~130dB
Resolution	0.1dB
Accuracy	1.4dB at 94dB sound level, 1kHz sine wave
Measurement rate	1.5 times per second, normal
Storage temperature	-10°C~60°C (<80% R.H.)
Over range	"OL" mark indication

**Size(HxWxD):** 251mm x 63.8mm x 40mm  
**Weight:** 250g  
**Accessories :**  
9V battery, Carrying case and Gift box.

815 Sound Level Meter is designed for noise project, quality control, illness prevention & cure and all kinds of environment sounds measurements. It is applied to the sounds measurement at factory, school, office, traffic access and household, etc.  
This unit conforms to the IEC61672-1 class 2 for Sound Level Meter



**Features**

- This unit conforms to the IEC61672-1 class 2 for Sound Level Meters
- MAX & MIN measurements
- Over range display
- A & C Weighting
- FAST & SLOW response
- Digit LCD display with a resolution of 0.1dB, bargraph & white backlight
- Readings memories

**Specifications**

Standard applied	IEC61672-1 Type 2, ANSI S1.4 Type2
Accuracy	±1.4dB
Frequency range	31.5Hz ~ 8KHz
Dynamic range	50dB
Level ranges	LO:30dB~80dB Med:50dB~100dB Hi:80dB~130dB Auto:30dB~130dB
Time weighting:	FAST ( 125mS ), SLOW ( 1s )
Microphone	1/2 inch electret condenser microphone
Resolution	0.1dB
Reading display update	2 times/sec
Bargraph display update	20 times/sec

**Size(HxWxD):** 210mm x 55mm x 32mm  
**Weight:** 230g

**Accessories :**  
9V battery, Carrying case and Gift box.

**DT-805/805L Mini Sound Level Meters**

**Features**

- Provides 1.4dB accuracy (805); Provides 2.0dB accuracy (805L)
- Meets IEC61672-1 Type 2 (805)
- Newly Design Shape
- High Performance
- Max Hold and Data Hold Function

**Specifications**

Level Range	Low = 30 ~ 100dB
	High = 60 ~ 130dB
Accuracy	±1.4dB (ref 94dB @ 1kHz)
Frequency Range	31.5Hz to 8kHz
Frequency Weighting	A, C
Time Weighting	Fast, Slow
Battery Type	9V Battery NEDA 1604, IEC 6F22, JIS 006P
Operation Temp	0°C~40°C(<80% R.H.)
Storage Temp	-10°C~60°C(<70% R.H.)

**Size(HxWxD):** 210mm x 55mm x 32mm  
**Weight:** 230g

1.4dB Accuracy (805)

Level range: 30~130dB

CE  
EMC  
EN: 61326  
EN: 61672-1



Model 815

1.4dB Accuracy (805)

Level range: 30~130dB



Model 805



Model 805L



# CMM/CFM Thermo-Anemometer with IR temperature



CFM/CMM Thermo-Anemometer with built-in non-contact IR Thermometer measure remote surface temperature to 500°C (932°F) and 30:1 distance to spot ratio.

Large LCD display



Model 8893



Model 8894

20 points average for Air Flow

Resolution of 0.01m/sec

Size(HxWxD): 203mm x 75mm x 50mm  
Weight: 280g

Accessories :  
9V battery, USB cable, software,  
Anemo probe and Gift box with carrying case.



Features	
Simultaneous display of Air Flow or Air Velocity plus Ambient Temperature	
Easy to set Area dimensions (cm <sup>2</sup> ) are stored in the meter's internal memory for the next power on	
Resolution of 0.01m/sec	
20 points average for Air Flow	
Super large (9999 counts) LCD Backlit Display	
3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable	
Complete with vane sensor with 3.9ft (120cm) cable, 9V battery, and protective rubber holster	
MAX/MIN, Data Hold functions	

Specifications		8893	8894
Air Velocity	Range	Accuracy	
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s	*
ft/min(feet per minute)	80~5900	±3% ±40ft/min	*
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h	*
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH	*
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots	*
Air Temperature	-10~60°C(14~140°F)	± 2.0°C(4.0°F)	*
InfraRed Temperature	-50 to -20°C(-58 to -4°F)	± 5.0°C(9.0°F)	*
	-20 to 500°C(-4 to 932°F)	±2% reading	*
Air Flow	Range	Area	
CFM	0-999900	0-999.9 ft <sup>2</sup>	*
CMM	0-999900	0-999.9 m <sup>2</sup>	*



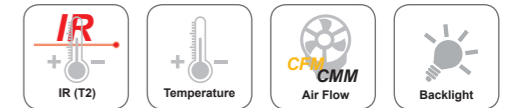
CFM/CMM Thermo-Anemometer with built-in non-contact IR Thermometer measures remote surface temperature to 260°C (500°F) and 8:1 distance to spot ratio.

- Multifunction Air Velocity Meter with wide temperature range (618/618B)
- CFM/CMM Thermo-Anemometer (619)
- CFM/CMM Thermo-Anemometer + InfraRed Thermometer (620)
- Max/Min/Avg value with relative time stamp (619/620)
- Low battery indication and Auto Power Off
- Display Air Flow (CFM/CMM), or Air Velocity plus Temperature simultaneously (619/620)



Resolution of 0.01m/sec  
20 points average for Air Flow

Thermo-Anemometer with built-in non-contact IR Thermometer



Model 620



DT-618/618B Thermo-Anemometer

Large LCD display

Features	
Simultaneous display of Air Flow or Air Velocity plus Ambient Temperature(619/620)	
Easy to set Area dimensions (cm <sup>2</sup> ) are stored in the meter's internal memory for the next power on(619/620)	
Resolution of 0.01m/sec (619/620)	
20 points average for Air Flow (619/620)	
Super large LCD Backlit Display(618/619/620)	
3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable(619/620)	
Type K sensor for temperature measurements (618/618B)	
High Sensitive and Accurate	

Specifications		618	618B	619	620
Air Velocity	Range	Accuracy			
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s	*	*	*
ft/min(feet per minute)	80~5900	±3% ±40ft/min	*	*	*
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h	*	*	*
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH	*	*	*
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots	*	*	*
Air Temperature	-10~60°C(14~140°F)	± 2.0°C(4.0°F)	*	*	*
InfraRed Temperature	-50 to -20°C(-58 to -4°F)	± 5.0°C(9.0°F)	*	*	*
	-20 to 260°C(-4 to 500°F)	±2% reading or ± 2°C(4°F)	*	*	*
Air Flow	Range	Area			
CFM	0-999900	0-999.9 ft <sup>2</sup>		*	*
CMM	0-999900	0-999.9 m <sup>2</sup>		*	*

Meter Size(HxWxD): 150mm x 72mm x 35mm  
Weight: 210g (618/618B)

Accessories :  
9V battery and Anemo probe, Gift box with carrying case.



DT-619 CFM/CMM Thermo-Anemometer

CFM/CMM Thermo-Anemometer







CFM/CMM Thermo-Anemometer remote sensor is the most popular model for HVAC applications.



EMC  
EN: 61326

High Quality Sensor



Model 3893



**Features**

- Display Air Flow (CFM/CMM), or Air Velocity plus Temperature & Max/Min/Avg value
- Easy to set Area dimensions (cm<sup>2</sup>) stored in the meter's internal memory for the next power on
- Resolution of 0.01m/sec
- 20 points average for Air Flow
- Super large LCD Backlit Display
- 3% velocity accuracy via low friction 2.83"D (72mm) ball bearing vane wheel on 3.9ft (120cm) cable
- Low battery indication and Auto Power Off

**Specifications**

Air Velocity	Range	Accuracy
m/s(meter per second)	0.40~30.00	±3% ±0.20m/s
ft/min(feet per minute)	80~5900	±3% ±40ft/min
km/h(kilometers per hour)	1.4~108.0	±3% ±0.8km/h
MPH(miles per hour)	0.9~67.0	±3% ±0.4MPH
Knots(nautical miles per hour)	0.8~58.0	±3% ±0.4knots
Air Temperature	-10~60°C(14~140°F)	± 2.0°C(±4.0°F)
Air Flow	Range	Area
CFM	0-999900	0-999.9 ft <sup>2</sup>
CMM	0-999900	0-999.9 m <sup>2</sup>

**Size(HxWxD):** 160mm x 62mm x 21mm  
**Weight:** 200g  
**Accessories :**  
 9V battery and Anemo probe, Gift box with carrying case.

**DT-317/317B/318/318B Flexible Thermo-Anemometers**

**Features**

- 16" inch Gooseneck detector is easy to measure the hard-to-reach areas.
- High Sensitive and Accurate
- Easy-to-use design
- Double LCD digital display
- Low power consumption
- Data Hold and MAX Hold function
- Low battery indication

16" inch Gooseneck detector

**Specifications**

Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	1.0~30.00	0.01	±3% ±0.20m/s
ft/min(feet per minute)	196~5900	1	±3% ±40ft/min
km/h(kilometers per hour)	3.6~108.0	0.1	±3% ±0.8km/h
MPH(miles per hour)	2.2~67.0	0.1	±3% ±0.4MPH
Knots(nautical miles per hour)	1.9~58.0	0.1	±3% ±0.4knots
Air Temperature	-10~60°C(14~140°F)	0.1°C/°F	± 2.0°C(4.0°F)
Air Flow	Range	Resolution	Area
CFM (317B/318B)	0-999900	0.1	0-999.9 ft <sup>2</sup>

**Size(HxWxD):** 163mm x 45mm x 34mm **Weight:** 210g  
**Accessories :** 9V battery and Anemo probe, Gift box with carrying case.



Model 317

Model 318



High Quality Sensor

3880/8880/8880A/8880B Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 4925ft/min.

**Specifications**

Air Velocity	Range	Resolution	Accuracy	3880	8880
m/s (meter per second)	0.1~25.0m/s	0.01m/s	±5% ±0.1m/s	*	*
km/h(kilometers per hour)	0.3~90.0km/h	0.1km/h	±5% ±0.1km/h	*	*
ft/min(feet per minute)	20~4925ft/min	ft/min	±5% ±1ft/min	*	*
MPH(miles per hour)	0.2~55.8MPH	MPH	±5% ±0.1MPH	*	*
Knots(nautical miles per hour)	0.2~48.5knots	0.1knots	±5% ±0.1knots	*	*
Air Temperature Range	0°C to 50°C (32°F to 122°F)	0.1°C/0.1°F	1°C/1.8°F	*	*
Humidity	0 to 100 % RH	0.1	±3.5% RH		

**Features**

- Thermal anemometer, available for very low air velocity measurement.
- Slim probe, ideal for grilles & diffusers.
- Combination of hot wire and standard thermistor, deliver rapid and precise measurements
- Records maximum/minimum readings with recall & data hold function.
- Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
- Super large LCD display with backlight, reading the air velocity & temp. at the same time.
- The portable anemometer provides fast, accurate readings, with digital readability
- Multi-functions for air flow measurement: m/s, km/h, ft/min, MPH, Knots & built in temperature °C / °F
- Thermistor sensor for Temperature measurement, fast response time.
- Applications: Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case and Paint spray booths.

**Size(HxWxD):** 198mm x 78mm x 51mm (8880), 160mm x 62mm x 21mm (3880)  
**Weight:** 323g (8880), 200g (3880)  
**Accessories :** 9V battery and Anemo probe, Gift box with carrying case.  
 3.7V Li-battery (3880), power adaptor.



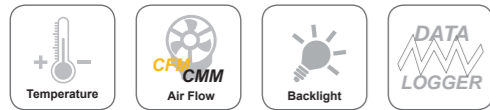
Model 8880

CE  
EMC  
EN: 61326



Model 3880





Made for iPod iPhone iPad

1880 Hot Wire Anemometer makes a step forward for you into the field of precision measurement. Telescoping probe is ideal for measuring in HVAC ducts and other small vents; extends up to 20m/s.

Features	1880	1880A
Smart phone APP		*
Single-point and continuous data log options	*	*
Velocity alarm	*	*
A bluetooth telescoping probe	*	*
LED backlight	*	*
Auto power off	*	*
Low-battery indication	*	*
Data hold	*	*
Probe sensor cover	*	*
Bluetooth communication		*

Specifications			
Air Velocity	Range	Resolution	Accuracy
m/s(meter per second)	0.1~20m/s	0.01m/s	±5%+0.03 m/s
ft/min(feet per minute)	20~3937ft/min	1ft/min	±5%+6ft/min
km/h(kilometers per hour)	0.3~72km/h	0.1km/h	±5%+0.1 km/h
MPH(miles per hour)	0.2~44.7MPH	0.1MPH	±5%+0.1 MPH
Air Temperature	-20~60°C (-4~140°F)	0.1°C/0.1°F	0.5°C(0~45°C), 1.0°C (rest of range) 1.0°F (32~113°F), 2.0°F (rest of range)
Relative Humidity	0~100%RH	0.1%RH	±3.5% RH

Size(HxWxD): 165mm x 60mm x 40mm

Weight: 320g

Accessories : 3.7V Lithium battery, Gift box with carrying case.



CE  
EMC  
EN: 61326

Model 1880



CE  
EMC  
EN: 61326

3890A is an absolute pressure measuring instrument. It is normally used to measure absolute pressure, e.g. for pressure compensation in velocity measurement in ducts, laboratories and production processes. Further measurement parameters are barometric (surface) pressure (= pressure at sea level) and altitude above sea level.

3890/3890B are Differential Pressure Manometers with large LCD display.

Features
Large Dual LCD with backlight
Data Hold
Max / Min / Avg value with relative time stamp
USB interface
Zero Adjust, Offset and DIF function (3890/3890B)
Low battery indication and Auto Power Off

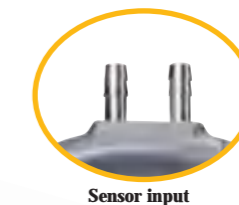
Specifications						
	3890 (Differential)		3890A(absolute)		3890B (Differential)	
Accuracy	±0.3%FSO		±2hpa		±0.3%FSO	
Repeatability	±0.2% (Max.+/-0.5% FSO)				±0.2% (Max.+/-0.5% FSO)	
Linearity/Hysteresis	±0.29% FSO				±0.29% FSO	
Pressure Range	±2PSI(±55.40inH2O)		300~1200hpa		±5PSI(±138.3inH2O)	
	inH2O	0.01	psi	0.001	inH2O	0.1
	PSI	0.001	hPa	0.1	PSI	0.001
	mbar	0.1	Pa	1	mbar	0.1
	kPa	0.01	mbar	0.1	kPa	0.01
	inHg	0.001	mmHg	0.1	inHg	0.001
Units and Resolution	mmHg	0.1	inHg	0.001	mmHg	0.1
	ozin2	0.01	mmH2O	1	ozin2	0.01
	ftH2O	0.001	inH2O	0.01	ftH2O	0.01
	cmH2O	0.1			cmH2O	0.1
	kgcm2	0.001			kgcm2	0.001
	bar	0.001			bar	0.001

High resolution & Accuracy

Small range manometer



Model 3890



Sensor input



USB Interface

Size(HxWxD): 184mm x 60mm x 30mm

Weight: 280g

Accessories : 3xAAA batteries, USB cable, gift box with carrying case.



Model 3890A





High resolution & Accuracy

Small range manometer



Model 8890

Model 8890D

**Size(HxWxD):**  
210mm x 75mm x 50mm  
**Weight:** 280g  
**Accessories :** 9V battery, USB cable, 9V power supply, Software, soft tube and gift box with carrying case.

**Specifications**

	8890	8890A	8890B	8890C	8890D	8890E	8890F	8890G
Accuracy	±0.3%FSO							
Repeatability	±0.2% (Max.+/-0.5% FSO)							
Linearity/Hysteresis	±0.29% FSO							
Pressure Range	±5PSI (±138.3 inH <sub>2</sub> O)		±2PSI (±55.40 inH <sub>2</sub> O)		±0.5PSI (±13.83 inH <sub>2</sub> O)		±20PSI (±554.0 inH <sub>2</sub> O)	
	±29PSI/ (±2bar)		±72.5 psi (±5bar)		±72.5 psi (±5bar)		±145 psi (±10bar)	
Units and Resolution	inH <sub>2</sub> O	0.1	inH <sub>2</sub> O	0.01	inH <sub>2</sub> O	0.001	inH <sub>2</sub> O	0.01
	PSI	0.001	PSI	0.001	PSI	0.001	bar	0.001
	mbar	0.1	mbar	0.1	mbar	0.001	mbar	0.01
	kPa	0.01	kPa	0.01	Pa	0.1	kPa	0.001
	inHg	0.001	inHg	0.001	inHg	0.0001	inHg	0.001
	mmHg	0.1	mmHg	0.1	mmHg	0.001	mmHg	0.01
	ozin <sup>2</sup>	0.01	ozin <sup>2</sup>	0.01	ozin <sup>2</sup>	0.01	ftH <sub>2</sub> O	0.01
	ftH <sub>2</sub> O	0.01	ftH <sub>2</sub> O	0.001	ftH <sub>2</sub> O	0.001	mH <sub>2</sub> O	0.01
	cmH <sub>2</sub> O	0.1	cmH <sub>2</sub> O	0.1	cmH <sub>2</sub> O	0.001	cmH <sub>2</sub> O	0.01
	kgcm	0.001	kgcm	0.001	kgcm	0.001	kgcm	0.001
	bar	0.001	bar	0.001	bar	0.001	bar	0.001

The device measures Gauge/Differential Pressure , it features 11 selectable units of measurement: inH<sub>2</sub>O , psi, bar, mbar, kPa , inHg , mmHg ,ozin,ftH<sub>2</sub>O , cmH<sub>2</sub>O, kgcm. Additional features including Data Hold, Auto Power Off disabled , and an USB for capturing reading to a PC using optional software . Careful use of this meter will provide years of reliable service.

8890B measures Differential Pressure from -20Pa to+20Pa and connect to the printer GPT-4379 with USB interface.  
8890C measures Gauge/Differential Pressure from -13.86 inH<sub>2</sub>O to +13.86 inH<sub>2</sub>O ( 0.5 psi)



Sensor input



USB Interface



**Features**

- Large Dual LCD with backlight
- Data Hold
- Max / Min / Avg value with relative time stamp
- Optional USB software
- Zero Adjust, Offset and DIF function
- Low battery indication and Auto Power Off



Model 15

**DT-15 Compact Digital Pressure Temperature Chart**

15 is a compact digital pressure temperature chart. This pocket sizes device offers fast and accurate temperature references on a large and easy-to-read LCD display. The automatic power down feature shuts the unit off five minutes after the last command to ensure extended battery life.

**Size(HxWxD):** 114mm x 50mm x 23mm  
**Weight:** 60g  
**Accessories :**  
CR2032 button battery and clamshell.



8897/8897H measures Gauge/Differential Pressure , Air Velocity, Air Flow and temperature.

- Hot wire anemometer(8897H) .
- Large LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Pressure measurement provides Zero Adjust and DIF function.
- Display Pressure, Air Velocity or Air Flow plus Temperature simultaneously.
- Easy to set Area dimension (up to 8 point).
- USB interface, USB to UART Bridge Controller.
- Low battery indication, and Auto Power Off mode (Sleep mode) increases battery life.

CE  
EMC  
EN: 61326

**Manometer Specifications ( 8897/8897H )**

Accuracy	±0.3%FSO	
Repeatability	±0.2% (Max.+/-0.5% FSO)	
Linearity/Hysteresis	±0.29% FSO	
Pressure Range	±2psi (±55.40 inH <sub>2</sub> O)	
	Units	Range/Resolution
Units and Resolution	psi	2.000/0.001
	mbar	137.8/0.1
	kPa	13.78/0.01
	inHg	4.072/0.001
	mmHg	103.4/0.1

2 in 1

Differential Pressure Manometer & Anemometer

**Flow meter Specifications**

Air Velocity	Range	Resolution	Basic Accuracy	8897	8897H
m/s(meter per second)	0.40~30.00	0.01	±3% ±0.20m/s	*	*
ft/min(feet per minute)	0.1~25.0	0.01	±5% ±1m/s	*	*
km/h(kilometers per hour)	80~5900	1	±3% ±40ft/min	*	*
MPH(miles per hour)	20~4925	1	±5% ±1ft/min	*	*
Knots(nautical miles per hour)	1.4~108.0	0.1	±3% ±0.8km/h	*	*
	0. 3~90. 0	0.1	±5% ±1km/h	*	*
Temperature °C	0.9~67.0	0.1	±3% ±0.4MPH	*	*
	0. 2~55. 8	0.1	±5% ±1MPH	*	*
Temperature °F	0.8~58.0	0.1	±3% ±0.4knots	*	*
	0. 2~48. 5	0.1	±5% ±1knots	*	*
Air Flow	0. 2~48. 5	0.1	±1.0°C	*	*
CFM (CFM=ft <sup>3</sup> /min)	32.0 to 120.0°F	0.1	±2.0°F	*	*
CMM (CMM=m <sup>3</sup> /min)	Range	Resolution	Area	*	*
	0-999,900ft <sup>3</sup> /min	0.001~100	0-999.9 ft <sup>2</sup>	*	*
	0-999,900m <sup>3</sup> /min	0.001~100	0-999.9 m <sup>2</sup>	*	*

**Size(HxWxD):** 210mm x 75mm x 50mm  
**Weight:** 280g

**Accessories :**  
9V battery, USB cable, software, Anemo probe, Soft tube and gift box with carrying case



Model 8897H



Model 8897



8920 is a Pressure and flow meter simultaneously with an easy-to-read, large, backlit LCD display. Measurement data is printed on site with minimum and maximum values. It can monitor air pressure across key HVAC components and promote good indoor air quality, which ensure proper air flow balance and maintain a comfortable environment.



Model 8920

EMC  
EN: 61326**Features**

- Larger LCD display with backlight.
- Relative time clock on MAX MIN and AVG provides a time reference for measurement.
- Pressure, velocity or air flow measurement provides Zero Adjust.
- Display pressure, Air velocity or air flow plus environment temperature simultaneously.
- Easy to calculate the area of a rectangular or circular duct.
- USB interface, USB to UART Bridge Controller.

**Specifications**

Manometer			
Accuracy	±0.3%FSO (25°C)		
Repeatability	±0.2% (Max.±0.5% FSO)		
Linearity/Hysteresis	±0.29% FSO		
Pressure Range	±5000Pa		
Maximum Pressure	10psi		
Response Time	0.5 Seconds typical		
Over range Indicator	OL		
Under range Indicator	-OL		
Measurement	Units	Range	Resolution
	PSI	0.7252	0.0001
	mbar	50.00	0.01
	inH <sub>2</sub> O	20.07	0.01
	mmH <sub>2</sub> O	509.8	0.1
Pa	5000	1Pa (0.1Pa only 8920B)	
Air Velocity			
	Range	Resolution	Accuracy
m/s(meter per second)	1-80.000	0.001	±2.5% of reading at 10.00m/s
ft/min(feet per minute)	200-15733	1	
km/h(kilometers per hour)	3.5-288.0	0.1	
MPH(miles per hour)	2.25-178.66	0.01	
Knots(nautical miles per hour)	2.0-154.6	0.1	
Accuracy is function of velocity and duct size			
Air Flow			
	Range	Resolution	
CFM	0-99999ft <sup>3</sup> /min	0.0001 to 100	
CMM	0-99999m <sup>3</sup> /min	0.001 to 100	
Temperature			
	Range	Resolution	Accuracy
°C	0 to 50.0°C	0.1	±1.0°C
°F	32.0 to 122.0°F	0.1	±2.0°F

Size(HxWxD): 212mm x 78mm x 51mm

Weight: 338g

**Accessories :**

9V battery, USB cable, software, pitot tube, AC adaptor, Gift box with carrying case.



HVAC Superheat and Subcooling Analyzer can be used for various refrigerants, automatically calculating superheating/subcooling and can be connected to your smartphone/tablet via App (8922). You can also monitor the analyzer via your smartphone/tablet and to store the measurement results or send them by e-mail as a complete report(8922).

Measures suction line or liquid line pressure and line temperature to calculate and display superheat and subcooling for A/C.

- R-22 or R-410A
- Digital LCD display in °F/°C
- Digital LCD displays pressure in PSI/kPa

**Features**

- Quick, accurate measurement of high and low pressure with two temperature-compensated pressure sensors; automatic measurements of the evaporation and condensation temperature
- Two temperature inputs for attaching temperature pipe clamp probes providing the simultaneous calculation of superheating and subcooling: this means you can do away with any error-prone manual calculations and get a reliable result straight away
- Including 2 hoses (red, yellow), suitable for all common refrigerants
- Two pipe clamp temperature probes included in the scope of delivery: when clamped directly onto the pipes, these enable reliable measurement of the pipe temperature
- Various refrigerants stored in the instrument: just one instrument covers all the most important refrigerants.
- Bluetooth interface(8922)
- 3.5" TFT color LCD display(8922)

**Specifications**

Temperature	Range (temperature): -40°C to 204°C/-40°F to 400°F; Resolutions: 0.1°; Sensor type: Dual k-type thermocouple input; Accuracy: ±1°C/±1.8°F;
Pressure and vacuum	Working range (pressure):0 to 500 psi; 0 to 4000 kPa Resolutions: 0.1psi or kPa, 0.1"Hg or cmHg vac. Accuracy: ±1 psi/±6.9 kPa; Sensor breakdown pressure: 800psi (5500 kPa)
Superheat:	Range (temperature): 0°F to 80°F; 0°C to 27°C Resolutions: 0.1°; Accuracy: ±1°C/±1.8°F;
Subcooling:	Range (temperature): 0°F to 80°F; 0°C to 27°C Resolutions: 0.1°; Accuracy: ±1°C/±1.8°F;

Size(HxWxD): 212mm x 78mm x 51mm

Weight: 338g

Accessories : Li battery, K-type thermocouple, Gift box .



Model 8921

EMC  
EN: 61326

Model 8922



AT-8/AT-10 Contact/Non-contact Digital Tachometers

Contact/Laser Photo

AT-8/AT-10 Digital Tachometer provides fast and accurate contact and Non-contact RPM and surface speed measurements of rotating objects.

- Wide measurement range and high resolution
- 40 readings memories
- Built-in laser pointer
- 5 digits LCD display

CE  
EMC  
EN: 61326

Specifications	AT-8	AT-10
Contact test range	2 to 20,000 RPM	2 to 20,000 RPM
Non-contact test range	2 to 99,999 RPM	2 to 200,000 RPM
Tot test range	1 to 99,999 RPM	1 to 200,000 RPM
Accuracy	±(0.05% + 1digit)	±(0.05% + 1digit)
Resolution	0.1RPM(2 to 9999.9 RPM) 1RPM(over 10000 RPM)	0.001RPM to 1RPM
Sampling time	0.5 sec.(over 120 RPM)	0.5 sec.(over 120 RPM)
Detecting distance	50 mm to 500 mm	50 mm to 2500 mm
Time base	Quartz crystal	Quartz crystal
Power consumption	Approx. 45mA	Approx. 45mA
Battery	9V	9V

Size(HxWxD): 160mm x 60mm x 42mm  
Weight: 160g

Accessories:  
9V battery and Gift box with carrying case.



Model AT-10



Model AT-8



AT-6 Digital Tachometer

AT-6 Digital Tachometer provides fast and accurate Non-contact RPM and TOT measurements of rotating objects. Using reflective tape on object to be measured and pointing with the laser.

Non-Contact

Features	
Display	Large 5 digit LCD display
Accuracy	±0.05%±1d
RPM Range	2 to 99,999
Max RPM Resolution	0.1RPM
TOT Range	0-99,999
Memory	Built-in memory recalls Max/Min/Last

Size(HxWxD): 160mm x 60mm x 42mm  
Weight: 151g

Accessories:  
9V battery and Gift box with carrying case.

CE  
EMC  
EN: 61326



Model AT-6



Fast and accurate RPM and surface speed measurements. 6234B Digital Tachometer provides fast and accurate Non-contact RPM and surface speed measurements of rotating objects. Using reflective tape on object to be measured and pointing the integral light beam or laser. 6236B contact Tachometer combines both contact and non-contact models for use in all applications.

- Large 5 digits LCD display is easy to read.
- Autoranging with 0.05% accuracy
- Built-in memory recalls last Max/Min value stored

Features	6234B	6236B
Large 5 digits LCD display	*	*
Autoranging with 0.05% accuracy	*	*
Built-in memory recalls last Max/Min value stored	*	*
Non-contact measurement	*	*
Contact measurement		*

Specifications	6234B	6236B
Display Counts	99,999 counts LCD	99,999 counts LCD
Range RPM	2.5 to 99,999	5 to 99,999
M/min		0.05 to 1999.9
Basic Accuracy	±0.05%±1d	±0.05%±1d
Max RPM Resolution	0.1RPM	0.1RPM

Size(HxWxD): 160mm x 72mm x 37mm  
Weight: 200g

Accessories:  
6236B: Cone, RPM sensor tip, Surface speed wheel, Four 1.5V "AA" batteries, Gift box with carrying case.  
6234B: Reflective tape, Four 1.5V "AA" batteries, Gift box with carrying case.

Non-Contact

CE  
EMC  
EN: 61326



Model 6234B

Contact/Laser Photo



Model 6236B

AT-86F/AT-86V High Accuracy Tachometer Adaptors

High accuracy tachometer adaptors are compatible with any Test Tool, Power Harmonics Analyzer, Oscilloscope, Multimeter, or other voltage measurement device.

- AT-86F Output signal is pulse frequency output signal;
- AT-86V Output signal is analog voltage signal.

Specifications	
Measurement range	6 to 120,000RPM
Accuracy	±0.5%
Detection distance	50 to 500mm
Consumption	Approx. 15mA

Size(HxWxD): 166mm x 50mm x 40mm  
Weight: 189g

Accessories:  
9V battery and clamshell.





# Light Meter with PC Interface



3808 light meter provide accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the "lux" scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance normal from the LCD display. When the measurement is completed, replace the photo detector from the light source.



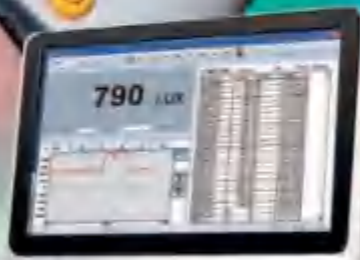
Features	
4000 Counts LCD dual display with timer function	
Auto Ranging	
Max./Min. and Data Hold	
Auto Power Off	
Low battery indication	
User selectable FC/Lux	
USB interface	
Capacity for data logging (99 readings)	
Total accuracy: for C.I.E standard illuminate A(2856K)	

Specifications	
Max Range	400,000Lux
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)
Max Resolution	0.1Lux/0.01Fc
Measuring rate	1.5 times/second
Photo Detector	115mm x 60mm x 27mm

Size(HxWxD): 160mm x 58mm x 27mm  
Weight: 280g

Accessories :  
9V battery, Photo Detector and USB cable, software, Carrying case and Gift box.



# LED Light Meter



Measures light from visible luminaries equipped with white light LED, fluorescent, metal halide, high-pressure sodium and incandescent sources



Model 3809

## UV-1302 UV Light Meter

UV-1302 is midrange and long wave UV measurement

- Measures UV spectrum from 290 to 390nm
- Includes sensor probe
- LCD display range: 1.999 to 19,990 μW/cm<sup>2</sup>
- Accurate to ±4% of full scale

Accessories :  
One 12V (A23) battery and One Photo Detector.



Features	
According to JISC1609:1993 and CNS 5119 general A class specifications.	
Spectral response close to CIE luminous spectral efficiency.	
Measuring intensities of illumination in unit of Lux or Foot-candle.	
Measuring lights source include all visible range.	
99 records storage.	
Cosine angular corrected.	
Length of wire for light sensor: approximately 1.5M.	

Specifications	
Light Source Selecting	Tungsten/Daylight, Fluorescent, 0-9 select rating
Measuring range	40, 400, 4,000, 40,000, 400,000 Lux, 40, 400, 4,000, 40,000, Foot-candle
Accuracy	+/-3% (Calibrated to standard incandescent lamp 2856°K and corrected LED day while-light spectrum) . +/-6% other visible light source.

Size(HxWxD): 160mm x 58mm x 27mm  
Weight: 280g

Accessories :  
9V battery, Gift box.





- Over-range indication
- Long life silicon photo diode inside
- Measurement rate: 1.5 times per second
- Widest range to 40,000Fc/400,000lux

Features	8808	8809A
LCD display counts	4000	4000
Auto Ranging	*	*
Analog bargraph/segments	41-segments	41-segments
Peak Hold	*	*
Relative mode	*	*
Max and Data Hold	*	*
Auto Power Off	*	*
Low battery indication	*	*
User selectable FC/Lux	*	*
Output		USB
Capacity for data logging 99		*
Total accuracy: for C.I.E standard illuminate A(2856K)		

Specifications	8808	8809A
Max Range	400,000Lux	400,000Lux
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)	±3% rdg ±5% f.s.(<10,000Lux) ±4%rdg ±10d(>10,000Lux)
Max Resolution	0.1Lux/0.01Fc	
Measuring rate	1.5 times/second	
Photo Detector	115mm x 60mm x 27mm	

**Size(HxWxD):** 203mm x 75mm x 50mm  
**Weight:** 280g  
**Accessories :**  
 9V battery, Photo Detector and USB cable(8809A), software(8809A), Carrying case and Gift box.

*Widest range to 40,000Fc/ 400,000 Lux*

8808/8809A light meters provide accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the "lux" scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance normal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

USB Interface (8809A)



1300/1301/1308 are easy to use with pocket size and light weight, providing accurate display light level in terms of Foot Candles (FC) or LUX over wide range. Just turning the Function Switch to select the "lux" scale and setting the range to desired range, then removing the photo detector to light source in a horizontal position and reading the illuminance normal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

- Over-range indication
- Long life silicon photo diode inside
- Measurement rate: 1.5 times per second

*Widest range to 40,000Fc/ 400,000 Lux*

Features	1300	1301	1308/1309
LCD display counts	2000	2000	4000
Auto Ranging			*
Analog bargraph/segments			41-segments
Peak Hold	*	*	*
Relative mode			*
Max and Data Hold		*	*
Auto Power Off		*	*
Low battery indication	*	*	*
User selectable FC/Lux		*	*
USB interface			*/*
Total accuracy: for C.I.E standard illuminate A(2856K)			

Specifications	
Max Range	50,000lux/Fc(1300,1301); 400,000Lux(1308)
Accuracy	±5%±10d(<10,000Lux) ±10%±10d(>10,000Lux)
Max Resolution	0.1lux/Fc
Measuring rate	1.5 times/second
Photo Detector	115mm x 60mm x 27mm



Model 1308



CE  
EMC  
EN: 61326



Model 1301

**DT-1307 Solar Power Meter**



**Size(HxWxD):** 162mm x 63mm x 28mm  
**Weight:** 176g

Features
Sunlight measurement up to 1999w/m <sup>2</sup> or 634BTU/(ft <sup>2</sup> *h)
High accuracy and rapid response
Data Hold function to hold measurement values
Unit and sign display for easy reading
Measuring unit selection among w/m <sup>2</sup> and BTU/(ft <sup>2</sup> *h)
Manual scale selection
Direct reading with no adjustments needed
Maximum and minimum values
Low battery indication

Specifications	
Display	3-1/2 digits LCD with maximum reading 1999.
Range	1999W/m <sup>2</sup> ,634BTU/(ft <sup>2</sup> *h)
Resolution	1W/m <sup>2</sup> ;1BTU/(ft <sup>2</sup> *h).
Accuracy	typically within ±10W/m <sup>2</sup> [±3BTU/(ft <sup>2</sup> *h)]or ±5%
Sampling time	Approx 0.25 second.

**Accessories :**  
 One 12V (A23) battery and One Photo Detector.(1300,1301)  
 One 9V battery and One Photo Detector.(1307/1308/1309)  
 Carrying case and Gift box.





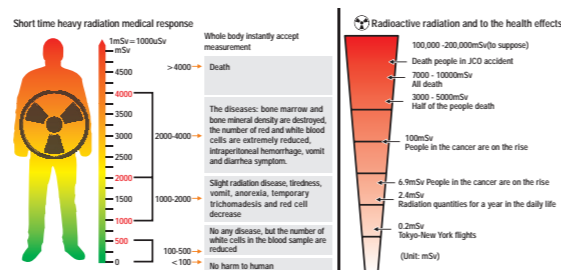
9501 radiation scanner is a tested precision instrument, reliably measures not only  $\gamma$  rays, but  $\alpha$ ,  $\beta$  and X rays as well. It allows multifunctions such as dose accumulating, maximum recording, hand-operated store, data transfer to PC in real-time, data analysis etc. Low power consumption ensures that the testing data will be not lost for several years.



EMC  
EN: 61326



- Large LCD display
- High precision
- Internal memory
- Data evaluation by PC
- Low power consumption
- Bluetooth interface
- Date reset



Specifications	
Ray types	$\alpha$ , $\beta$ , $\gamma$ and X rays
Range	Radiation dose rate: 0.01 $\mu$ Sv/h - 1000 $\mu$ Sv/h
	Impulse dose rate: 0-30,000cpm, 0-5,000cps
	Radiation dose accumulation: 0.001 $\mu$ Sv - 9999Sv
Sensitivity	Impulse dose accumulation: 0-9999
	108pcs impulse or 1000 cpm/mR/hr in Cobalt-60 radial environment with power of 1 $\mu$ Sv/h.
	Alpha ray: from 4 MeV
	Beta ray: from 0.2 MeV
	Gamma ray: from 0.02 MeV
Ray selection switch	$\alpha$ , $\beta$ , $\gamma$ and X rays selection
Sensor	Halogen filled detector
Output port	Bluetooth
Display	Dual LCD display, numeric with all inspection data, with bar chart.
Alert	Can set alert value free, default set: 5 $\mu$ Sv/hr
Accuracy	Typical 15%
Storage	Can store 2000 data automatically or by manually
Detector working temperature	0°C to 50°C

Size(HxWxD): 200mm x 70mm x 45mm    Accessories :  
Weight: 206g    Software, Carrying case and Gift box.



9501 is with bluetooth function for data transferring, analysis, editing, storage and sharing



The top of 9501 can be rotated and easily used for  $\alpha$ ,  $\beta$ ,  $\gamma$  and X rays selection

DT-2G Microwave Leakage Detector/DT-3G Magnetic Field Meter

The 2G is a high sensitive product to detect the microwave accurately, even at a low volume the injury of the radiation of microwave.

The 3G is capable of measuring the electromagnetic field radiation intensity that is produced from electric transmission equipment, power line, electric oven, air conditioner, refrigerator, computer monitor, video/audio device and so forth.

- Digital LCD display with white backlit
- Leakage volume in dangerous zone will sound beeping and a red lamp flashing(2G)
- Low leakage volume display for warning
- Max. hold function

Specifications	2G	3G
Range	0- 9.99 mW/ cm <sup>2</sup>	200/2000mG, 20/200 $\mu$ T
Warning values	5.0mW/cm <sup>2</sup>	Frequency response: 30Hz-300Hz
Sample rate	2 times per second	2 times per second

Size(HxWxD): 160mm x 60mm x 42mm  
Weight: 151g

Accessories:  
9V battery and Gift box with carrying case.



Model 2G

Model 3G

968C can accurately detect the pollution from automobile exhausts and for agricultural/ industrial odors/waste gas. The meter can detect the concentration of CO, NO<sub>2</sub> and NH<sub>3</sub> in the odor. The device has a data recording function, which can be automatically set according to the sampling time and interval set by the user. Record measurement data and generate a readable file. Users can view data directly from the device and export the data to a computer via USB. Built-in high-capacity lithium battery ensures long-time measurement, sleep mode and auto power off function.

Features	
Powerful MEMS Sensor, high accuracy and reliability	
2.4" TFT color display	
Real-time display the concentration of odors	
Measuring three types of pollution concentrations	
Audio and Light alarm when pollution	
Auto power off	
Smart upload to the Cloud, access to large data	
Open and close control Purifier	
Wireless interface	

Specifications			
Function	Range	Resolution	Repeatability accuracy
CO	0 ~ 1000ppm	1ppm	±2%
NO <sub>2</sub>	0.05 ~ 10ppm	0.01ppm	±2%
NH <sub>3</sub>	1 ~ 500ppm	1ppm	±2%

Size(HxWxD): 160mm x 85mm x 73mm  
Weight: 360g  
Accessories :  
NiMH battery, gift box with carrying case.



EMC  
EN: 61326



Model 968C



DT-900A 2 in1 HCHO & TVOC Meter

The HCHO Tester provides a real time measurement of HCHO and TVOC tech product to meet with a variety of occasions air pollution measurement needs, timely responds air pollution. This instrument has a high accuracy, fast response, sensitivity. It is compact, easy to carry, suitable and home, offices, factories, hotels and schools and other indoor environments. It can be displayed at any formaldehyde in the air and the concentration of TVOC, and calculate the value of API (Air Pollution Index).

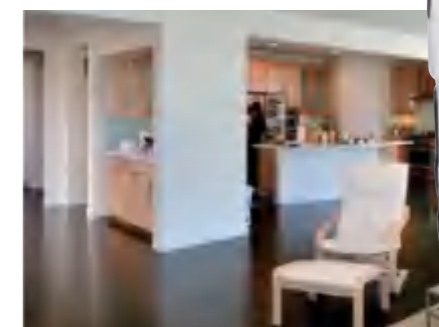
Features	
Fuel Cell.HCHO sensor, high accuracy and reliability	
LCD display with backlight	
Real-time display the concentration of HCHO in the air	
Real-time display the concentration of TVOC in the air	
Real-time display the API	
Sound and Light alarm when pollution	
Auto power off	

Specifications	
HCHO	
Range	0.00 to 5.00mg/m <sup>3</sup>
Resolution	0.01mg/m <sup>3</sup>
Repeatability accuracy	±2%
TVOC	
Range	0.00 to 9.99mg/m <sup>3</sup>
Resolution	0.01mg/m <sup>3</sup>
Repeatability accuracy	±2%
Operation temperature range	0°C to 50°C
Storage temperature range	-10°C to 60°C
Working Voltage	7.4V(Rechargeable battery)

Size(HxWxD): 248mm x 160mm x 100mm    Accessories:  
Weight: 584g    Li battery, power adaptor, gift box with carrying case.



EMC  
EN: 61326



Model 900A





- Memory for 10 complete data sets
- LED light & audible alarm

• High Quality Sensor



CO-110 Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM). The Meter indicates the presence of CO by a reading on the LCD and a beeper tone. The beeper function much like clicking of a Geiger counter: Above 200 PPM, the beeper sounds continuously with the concentration of CO. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.



Model CO-110

**Features**

- Digital LCD Display
- Auto/manual zero
- Memory for 10 complete data sets
- Record mode
- Red & Blue LED light and audible alarm
- High Accuracy, quick response
- Pocket size and easy to use
- Fast sampling
- Max Hold
- Data Hold
- Above 200 PPM, the beeper sounds continuously

**Specifications**

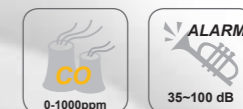
Operating temperature	0°C to 50.0°C
Storage temperature	-30°C to 60.0°C
Operating humidity	0-90% relative humidity (non-condensing)
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Battery	9V, NEDA 1604A or equivalent
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

**Size(HxWxD):** 102mm x 52mm x 29mm  
**Weight:** 84g

**Accessories :**  
3.6V battery and Gift box with carrying case.

16" inch Gooseneck detector

High quality Sensor



**Features**

- 16" inch Gooseneck detector is easy to measure the hard-reached areas.
- Highly sensitive and reliable
- Easy to Use: One-hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak.
- Use in contaminated Environments: Eliminates background gas concentration with fully adjustable tick rate.
- Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks.

**Specifications**

Pump Driven field Calibrateable Range	10ppm
Sensor Type	Solid State
Alarm	Visible & Audible at 10% LEL for Methane. Can be calibrated for other concentrations or gases.
Warm-Up	Approx. 1 minute
Response Time	Less than 2 sec. (up to 40% LEL)
Duty Cycle	Intermittent
Probe Length	16"
Battery	3 "C" Alkaline

**Accessories :**

Batteries and Gift box with carrying case.

**Size(HxWxD):** 221mm x 72mm x 46mm  
**Weight:** 498g



Model 3300



**GD-3303 Refrigerant Leak Detector**

**Features**

- 16" inch Gooseneck detector is easy to measure the hard-reached areas.
- Highly sensitive and reliable
- Easy to Use: One-hand operation with thumb controlled tick adjust knob. Tick accelerates when sensor tip approaches leak.
- Use in contaminated Environments: Eliminates background gas concentration with fully adjustable tick rate.
- Pinpoint small Leaks: Detects all Refrigerant leaks even tiny leaks.

**Specifications**

Pump Driven field Calibrateable Range	10ppm
Sensor Type	Solid State
Alarm	Visible & Audible at 10% LEL for Refrigerant leaks. Can be calibrated for other concentrations or gases.
Warm-Up	Approx. 1 minute
Response Time	Less than 2 sec. (up to 40% LEL)
Duty Cycle	Intermittent
Probe Length	16"
Battery	3 "C" Alkaline

**Size(HxWxD):** 221mm x 72mm x 46mm  
**Weight:** 498g



Model 3303



High quality Sensor

- Memory for 10 complete data sets
- LED light audible alarm



CO-180/181 Carbon Monoxide Meter detects the presence of carbon monoxide (CO) and measures concentrations between 1-1000 parts per million (PPM). The Meter indicates the presence of CO by a reading on the LCD and a beeper tone. The beeper function much like clicking of a Geiger counter: Above 200 PPM, the beeper sounds continuously with the concentration of CO. From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.



Model 180

Model 181



Features	CO-180	CO-181
Digital LCD Display	*	*
Auto zero	*	*
Auto/manual zero	*	*
Memory for 10 complete data sets		*
Record mode		*
LED light audible alarm		*
High Accuracy, quick response	*	*
Pocket size and easy to use	*	*
Fast sampling	*	*
Max Hold	*	*
Data Hold	*	*
Auto Power Off	*	*
Above 200 PPM, the beeper sounds continuously	*	*

Specifications	
Operating temperature	0°C to 50.0°C
Storage temperature	-30°C to 60.0°C
Operating humidity	0-90% relative humidity (non-condensing)
Measurement Range	0 to 1000PPM
Measurement Resolution	1PPM
Accuracy	±5% or ±10PPM
Warm up period	Less than 2 seconds
Battery	9V, NEDA 1604A or equivalent
Auto Power Off	after 15 minutes of inactivity
Sensor type	Stabilized electrochemical Gas-specific (CO)
Typical sensor life	3 years

**Size(HxWxD):** 160mm x 56mm x 40mm **Accessories :**  
**Weight:** 180g 9V battery and Gift box with carrying case.



Model 3000

**GD-3000 Flammable Gas-Leak Detector**

- Audible and Visual Annunciation
- Detects: LAG, LPG, CH4, Methane, Butane, Flammable Gas
- Catalytic Combustion Sensor

Specifications			
Name	Portable gas detector		
Function	Detecting the gas leakage and absorbing static electricity		
Power consumption	DC 200mA	Battery size	1.5V x 2(AAA Size)
Detectable gas	LNG, LPG	Temperature	10°C~50°C
Humidity	95%RH or lower	Duration	About 4 hours continuously

**Size(HxWxD):** 164mm x 21mm **Accessories :**  
**Weight:** 25g 2 x "AAA" Alkaline Batteries and clamshell.

**GD-3100**  
Combustible Gas Leak Detector



3100 is Combustible Gas Leak Detector detects the presence of combustible gas and measures concentrations between 0~10000 parts per million(PPM) with auto zero. The Detector indicates the presence of combustible gas by a reading on the LCD , a red LED & a beeper tone. The beeper will sound rapidly due to the increasing concentrations of combustible gas. It provides quick, precise gas leak locating, would be the best instrument for explosion preventing and safe production.

Features
Digital LCD Display
Visible, audible and vibration alarm for noisy & bright environments
Auto Zero
Highly sensitive and reliable
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks
16" inch flexible probe with replaceable sensor
Auto Power Off

Specifications	
Sensitivity	<50ppm(methane)
Range	0~10000ppm(methane)
Response Time	< 2 secs
Warm-Up Time	Approx. 50 secs
Audible Alarm	> 75db
Vibration Alarm	Standard
Probe Length	16" inch
Sensor Type	Solid State
Duty Cycle	Intermittent
Battery	3.7V 1400mA Lithium battery

**Accessories :**  
 Batteries and Gift box with carrying case.

**GD-3301 Combustible Gas Leak Detector**



Model 3301

Features
Easy to Use: It fits comfortably in your hand and operates with the simple push of a button.
Fast Response: Pump driven design ensures immediate response.
Easy to Read: See the results even in poorly lit areas with the back light, two line LCD display.
Quick Set Up: Push zero button is much easier than manual adjust instruments.
Calibrate in the Field: No need to send your instrument to the factory for service. Eliminates time.

Specifications	
Pump Driven field Calibrateable Range	0-1000ppm
Resolution	1ppm
Response Time	3 seconds, 90% of reading in 30 seconds
Accuracy	±5ppm, ±3% of reading
Operating Temperature	0-104°F, 5-95% Relative Humidity, non condensing
Zero Adjustment	Push Button
Battery	3 "C" Alkaline
Battery Life	20 hours continuous operation

**Size(HxWxD):** 221mm x 72mm x 46mm  
**Weight:** 365g



Model 3100

16" inch Gooseneck detector

High quality Sensor

CE  
 EMC  
 EN: 61326





Model 3307



3307 Easily operate the Refrigerant Leak Detector with one hand to detect presence of Refrigerants.

3309 is a hand-held SF6 detector (pumped or diffused) series, which is a gas detector for on-site detection of halogen gas leaks and other special applications. The detector has a high response speed and high sensitivity, High resolution, sound and light alarm and other functions, simple operation, is a very high practical gas detector.

Features	3307	3309
High sensitivity to detect 3000ppm of SF6		*
High sensitivity to detect 100ppm of R-134a / R-22	*	
Adjustable tick rate to locate leaks quickly and easily	*	
Visual leak detection by LED indicators	*	*
Precision sensor detects even the smallest leaks	*	*
Compatible with pumping or diffusion of two sampling modes		*

Specifications	
<b>Refrigerant Leak Detector</b>	
Sensitivity to detect	100ppm Of R-134a/ R-22
Sensor Type	Low power semiconductor
Warm Up Time	Approx. 1 minute
Response Time	Less than 2 seconds
Alarm	Visible & Audible
<b>SF6 Leak Detector</b>	
range	0 to 3000ppm
sensitivity	<1ppm
accuracy	<2% F.S
Repeatability	≤ ± 1%

**Size(HxWxD):** 220mm x 62mm x 40mm

**Weight:** 480g

**Accessories :**

9V battery and Gift box with carrying case.



Model 3309



3306/3308 Combustible Gas Leak Detector detects the presence of combustible gas and measures concentrations between 0~10000 parts per million (PPM). The Detector indicates the presence of combustible gas by a reading on the LCD (3308) or five red LEDs (3306). The five red LEDs indicate different concentration of gas. The beeper function much like clicking of a Geiger counter: Above 3200 PPM, the beeper sounds continuously with the concentration of gas. From 0 PPM to 3200 PPM, the beeper will sound rapidly due to the increasing concentrations of combustible gas. It provides quick, precise gas leak locating, would be the best instrument for explosion preventing and safe production.

Features	3306	3308
Digital LCD Display		*
Visible, audible and vibration alarm for noisy & bright environments	*	
Highly sensitive and reliable	*	*
Pinpoint small Leaks: Detects all combustible gas leaks even tiny leaks	*	*
Auto Zero	*	*
Highly Accuracy, quick response	*	*
16" inch flexible probe with replaceable sensor	*	*
Auto Power Off	*	*

Specifications	3306	3308
Sensitivity	<50ppm(methane)	*
Range	0~10000ppm(methane)	*
Response Time	< 2 secs	*
Warm-Up Time	Approx. 40 secs	*
Audible Alarm	> 75db	*
Vibration Alarm	Standard	*
Probe Length	16" inch	*
Visual Alert	5 Red LEDs: Gas Measuring Levels; Sensitivity Visual Alert	*
Display Type	LCD	*
Audible Alert(>75 db)	Loud Audible Ticking Rate(w/Continuous Modulation Proportional to Gas Level)	*

**Size(HxWxD):** 220mm x 62mm x 40mm

**Weight:** 480g

**Accessories :**

9V battery and Gift box with carrying case.



16" inch Gooseneck detector

High quality Sensor



Model 3308



Model 3306



Measuring Carbon Dioxide (CO<sub>2</sub>), Air Temperature and Humidity with user adjustable visual and audible alarm, Dew Point and Wet Bulb temperature measurement



**Features**

- 7" Color TFT LCD Display
- Checks for Carbon Dioxide (CO<sub>2</sub>) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings
- NDIR (non-dispersive infrared) CO<sub>2</sub> sensor
- Indoor Air Quality displayed in ppm with Good, Normal, Poor indication
- Displays Year, Month, Date, and Time
- Max/Min CO<sub>2</sub> value recall function



**Features**

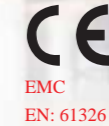
Measures Carbon Dioxide (CO<sub>2</sub>), Air Temperature and Humidity with user adjustable high/low alarms and choice of datalogging model with memory 999 points  
2.4" TFT Color Display  
Checks for Carbon Dioxide (CO<sub>2</sub>) concentrations (0 to 9,999ppm) and displays Temperature (14 to 140°F / -10 to 60°C) and Relative Humidity (0.1 to 99.9%) readings  
NDIR (non-dispersive infrared) CO<sub>2</sub> sensor  
Indoor Air Quality displayed in ppm with Good, Normal, Poor indication  
Displays Year, Month, Date, and Time  
Max/Min CO<sub>2</sub> value recall function

**Specifications**

Function	Range	Resolution	Accuracy
CO <sub>2</sub>	0-9999ppm	1ppm	±5%±75ppm
Temperature	-10 to 60°C/14 to 140°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 100.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

**Size(HxWxD):** 110mm x 100mm x 48mm  
**Weight:** 210g

**Accessories :**  
NiMH battery, gift box with carrying case.



Model 967

**DT-802/802D/802W Desktop Indoor Air Quality CO<sub>2</sub> Monitors**



Model 802



**Features**

Checks for Carbon Dioxide (CO<sub>2</sub>) concentrations with Max/Min value recall function  
NDIR (non-dispersive infrared) CO<sub>2</sub> sensor  
Indoor Air Quality displayed in ppm with Good (380 to 420ppm), Normal (<1000ppm), Poor (>1000ppm) indication  
Visible and Audible CO<sub>2</sub> warning alarm  
Displays Year, Month, Date, and Time  
Automatic Baseline Calibration (minimum CO<sub>2</sub> level over 7.5 days) or manual calibration in fresh air  
802D Desktop Indoor Air Quality CO<sub>2</sub> Monitor with datalogger memory 32000 points.  
802W Desktop Indoor Air Quality CO<sub>2</sub> includes wireless

**Specifications**

Function	Range	Resolution	Accuracy
CO <sub>2</sub>	0-9999ppm	1ppm	±75ppm(0-2000ppm)/±8%(2000-9999ppm)
Temperature	-5 to 50°C/23 to 122°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 90.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

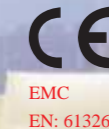
**Size(HxWxD):** 110mm x 105mm x 61mm  
**Weight:** 230g

**Accessories :**  
NiMH battery, gift box with carrying case.

**DT-1703 Desktop Indoor Air Quality CO<sub>2</sub> Monitor**



Model 1703



**Specifications**

Function	Range	Resolution	Accuracy
CO <sub>2</sub>	0-9999ppm	1ppm	±5%±75ppm
Temperature	-10 to 60°C/14 to 140°F	0.1°C/°F	±1°C/1.8°F
Humidity	0.1 to 100.0%RH	0.1%RH	±3%RH(25°C/30 to 99%RH) ±4%RH(25°C/0 to 30%RH)

**Size(HxWxD):** 205mm x 110mm x 35mm

**Weight:** 350g

**Accessories :** NiMH battery, gift box with carrying case.



3803 is a multifunction GAS meter that simultaneously measures and records O<sub>2</sub>, CO, CO<sub>2</sub> temperature and humidity. It includes the relational software which can be used to program, download data and save logged files.



EMC  
EN: 61326



Model GD-3803

### Features

Measures and logs Oxygen(O <sub>2</sub> ), Carbon Monoxide(CO), Carbon Dioxide(CO <sub>2</sub> ), relative humidity and temperature
High Accuracy gas sensor
Max/Min and average value display
Adjustable audible O <sub>2</sub> , CO and CO <sub>2</sub> alarm
Display with backlight
Adjustable auto power off function
Mini USB interface Connections
Auto Power Off

### Specifications

O <sub>2</sub> Measurement	
Oxygen Range	1 - 30% vol. O <sub>2</sub>
Oxygen Resolution	0.1%
Oxygen Respond Time	<15 Seconds
CO Measurement	
Carbon Monoxide(CO) Range	0 - 1000ppm
Carbon Monoxide(CO) Accuracy	±5%FS
Carbon Monoxide(CO) Resolution	1 ppm
Carbon monoxide(CO) Respond time	<2 Seconds
CO <sub>2</sub> Measurement	
Carbon Dioxide(CO <sub>2</sub> ) Range	0 - 9999ppm CO <sub>2</sub>
Carbon Dioxide(CO <sub>2</sub> ) Resolution	1 ppm
Carbon Dioxide(CO <sub>2</sub> ) Accuracy	±75ppm or ±5% of reading
Carbon Dioxide(CO <sub>2</sub> ) Respond time	120 Seconds
Temperature & Humidity Measurement	
Temperature Range	0°C to 50°C (32°F to 122°F)
Temperature Resolution	0.1°C /°F
Temperature Accuracy	±1°C /1.8°F
Humidity Range	0 to 100%RH
Humidity Resolution	0.1%RH
Humidity Accuracy	±3.5%RH @20 to 80%RH ±5%RH @0 to 20%RH or 80 to 100%RH
Operate Environment	0°C to 50°C (23°F to 122°F) at < 90%RH

Size(HxWxD): 240mm x 75mm x 57mm Weight: 380g

Accessories : NiMH battery, gift box with carrying case.

Electrochemical Exhaust Ozone Concentration Detector for gas concentration detection in a variety of industrial environments and special environments, with imported electrochemical sensors and microcontrollers technology for fast response, high accuracy, stability and repeatability, Machine performance ranks the world's leading level, the parameters of the user can customize the settings, simple operation. Using 2.0-inch industrial color screen, the perfect display of the technical indicators and gas concentration values, you can view the historical data on the screen, with storage, data export, temperature and humidity detection and other functions.

### Features

Imported electrochemical sensors and ultra-low power 32-bit microprocessors
2.0-inch industrial grade color screen with a resolution of 220x176
PPM, mg / m <sup>3</sup> two units of concentration can be free to switch
has a data storage function, can store 5000 sets of data, you can view the historical data on the screen, you can export data
with temperature and humidity detection function, can detect the site or the gas temperature and humidity within the pipeline
built-in powerful pumping device, can work in the micro-negative pressure environment
Automatic shutdown function
Bluetooth interface (99B)

### Specifications

Measuring Range	0~100ppm
Resolution	0.01ppm
Air Temperature Range	-20 to 70°C
Humidity Range	0 to 100%RH
Detection	Suction, built-in powerful suction device, flow rate: 50-500mL / min adjustable, can work in the micro-negative environment
Response time	≤60s
Repeatability	≤±1%
Storage mode	real-time storage, can store data of 5000 group, you can view the historical data on the screen

Size(HxWxD): 185mm x 55mm x 38mm

Weight: 139g

Accessories : 3.7V Li-on battery, Clamshell.

### DT-176 Waterproof pH/Conductivity Meter

176 Combination rugged Flat Surface pH electrode & innovative design with flat surface technology support quick on-the-spot pH measurements with autoranging high accuracy.

### Features

Measures pH and Temperature using one electrode
Memory stores up to 25 labeled readings
RENEW feature alerts user when electrode needs replacement
Auto power off and low battery indicator
IP55 Waterproof

### Specifications

Specifications	Range	Max Resolution	Basic Accuracy
pH	0.00 to 14.00pH	0.01pH	±0.01pH
Temperature	23° to 194°F (-5 to 90°C)	0.1°F/°C	±1.8°F/1°C
Waterproof	IP55		
Memory	25 datasets		

Size(HxWxD): 36mm x 186mm x 41mm

Weight: 110g

Accessories :

NiMH battery, gift box with carrying case.



EMC  
EN: 61326



Model 99



EMC  
EN: 61326

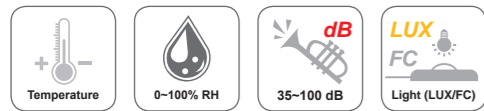


Combination flat surface pH electrode with Conductivity cell



Model 176





22/2232 digital Multifunction Environment Meter have been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, and Temperature Meter. They are ideal Multifunction Environment Instruments with scores of practical applications for professional and home use.

**CE**

EMC & LVD  
EN: 61326  
EN: 61010-1,  
EN: 61010-02-031

Model 22

- 22: 4 in 1 environment meter. It is mini size with high technology for professional use.
- 2232: 4 in 1 multifunction environment meter with PC Interface.

Model 2232

**EN 61010-1 CAT II 600V**

Features		22	2232
Digital display counts		2000	4000
PC Interface		*	*
Auto power Off		*	*
Low battery indication		*	*

Specifications		22	2232
Function	Max Range	Resolution	Basic Accuracy
Light	20,000Lux	0.1Lux	±0.5%±10d
	40,000Lux		
Sound	100dB	0.1dB	±3.5dB
	130dB		
Humidity	95%RH	0.1%RH	±5%RH
	1300°C	0.1°C	±3%±1d
Temperature	750°C/1400°F	0.1°C/°F	±3%±2d

**Size(HxWxD):** 121mm x 60.6mm x 40mm  
**Weight:** 280g

**Accessories :**  
22: Rubber holster, 9V battery, Test leads and K-Type temperature probe.  
2232: Rubber holster, Test leads, K-Type temperature probe, 9V battery, RS-232 PC cable & Software diskette.

**DT- 25 Home Energy Check**



The Home Energy Check is a power-measuring device which complies with the latest state of the art. It enable you to determine the energy costs of "current eaters" in a simplest way.

Specifications	
Operating voltage	230 V A.C., 50 Hz
Tolerance	± 1% ± 1 W (max. ± 2 % and ± 2W)
Measurements range	2,500 W; max. ± 4 % for measurements exceeding 2,500 W
Input/Output	Earthing protective contact plug and socket
Maximum amperage	Approx. 13 A
Max. power	3,000 W (= 3 kW = abt. 13 A x 230 V)
Overflow indication	Flashing signal from abt. 3,070 W
Working temperature	From +10 °C to +40 °C, rel. humidity of air < 75 %, noncondensing

**Size(HxWxD):** 140mm x 72mm x 43mm  
**Weight:** 280g

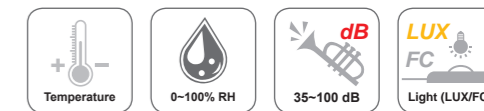
**Accessories :** Battery and clamshell.

**T-12/T-12B/T-12S Timers**



**Model T-12**  
**Accessories :** Battery and clamshell.

**Model T-12S**



The 4 in 1 digital Multifunction Environment Meter has been designed to combine the functions of Sound Level Meter, Light Meter, Humidity Meter, and Temperature Meter. It is an ideal Multifunction Environment Meter Instrument with scores of practical applications for professional and home use.

The Sound Level function can be used to measure noise in factories, schools, offices, home, etc, checking acoustics of studios, auditoriums and hi-fi installations. The Light function is used to measure illuminance in the field. It is fully cosine corrected for the angular incidence of light. The light sensitive component used in the meter is a very stable, long life silicon diode.

The Humidity/Temperature uses a humidity/semiconductor sensor and K type thermocouple.

Features	
4 in 1 for Light meter, Sound level meter, Humidity/Temperature meter	
3 1/2 large LCD display	
Data Hold and Max Hold	
Auto Power Off	
"OL" Over-range indication	
"BAT" Low battery indication	
Total accuracy: for C.I.E standard illuminate A(2856K)	

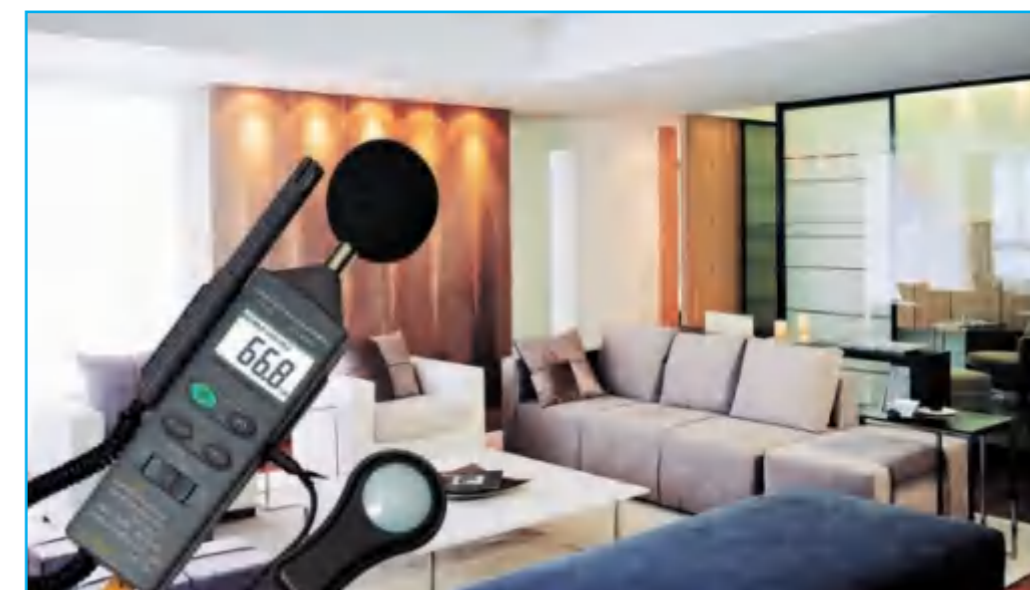
Specifications			
Function	Range	Resolution	Accuracy(%rdg+digits)
Temperature (K-type)	-20°C~200°C	0.1°C	±(3.0%+2°C)
	-20°C~750°C	1°C	±(3.0%+2°C) ≤150°C; ±3.0% ≥150°C
	-4°F~200°F	0.1°F	±(3.0%+2°F)
Light	-4°F~1400°F	1°F	±(3.0%+2°F) ≤302°F; ±3.0% ≥302°F
	20,200,2000,20000 (2000 x 10 Lux)	0.01,0.1,1	±(5.0%+10d)
Humidity	35%~95%RH	0.1%RH	±5.0%RH at 25°C
Sound Level	35dB~100dB	0.1dB	±3.5dB at 94dB sound level, 1KHz sine wave

**Size(HxWxD):** 251mm x 63.8mm x 40mm  
**Weight:** 250g

**Accessories :** 9V battery and K-type temperature probe, humidity probe, light probe, gift box with carrying case.



**CE**  
EMC  
EN: 61326





Particle Counter



Dewpoint  
Wet bulb



Video



Camera

-  **2.8" TFT color LCD display**
-  Support **Particle** measurement
-  Support **Harmful Gases** measurement
-  Support, **Air, Dewpoint, Wet bulb Temp. & Air humidity** measurement
-  Support **MicroSD** memory card extension

-  Support **Images(JPEG)** capture capabilities
-  Support **Video(3GP)** capture capabilities
-  **Date/Time** setup controls
-  **USB** interface
-  **Data Logger**

9880/9881/9880M/9881M are Particle Counter with 2.8" color TFT LCD display & a microSD memory card for capturing images(JPEG) or video(3GP) for viewing on your PC, providing fast, easy and accurate readings for particle counter, GAS (HCHO,CO) detectors, air temperature & relative humidity measurements. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save. The dewpoint temperature measurement will be very visible for wet and dry proof. It is a good hand for industrial measurements and data analyzing, the real scene and time can be displayed on color TFT LCD. Any memory readings can be recorded in SD card. The user can be back in office to analyze the measured air quality under the support of software.

9883M is 4 in 1 Particle Counter.

CE  
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EN: 61326



Model 9880

Features

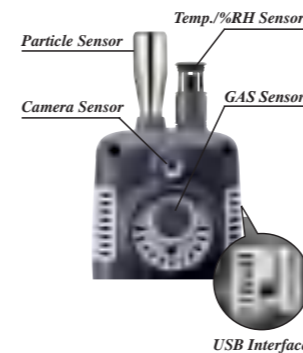
	9880	9881	9880M/9881M	9883M
2.8" TFT 320x240 pixels Color LCD display	*	*	*	*
Images(JPEG) & Video(3GP)	*	*	*	*
Simultaneously measure and display 6 channel of particle sizes, measure particle size down to 0.3 μm	*	*	*	*
The determination of suspended particle concentration in the air of the weight method (PM2.5/PM10)			*	*
GAS (HCHO,CO) detectors		*	*/-	*/-
TVOC, CO <sub>2</sub>				*
Air temperature and humidity, Dewpoint & Wet bulb temperature	*	*	*	*
Max, Min, DIF, AVG record, Date/time setup controls, alarm	*	*	*	*
MicroSD (MAX. use 8GB) memory card, USB interface	*	*	*	*
Auto Power Off	*	*	*	*
Selectable sample time, count data, programmable delay	*	*	*	*
Store 5000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label	*	*	*	*
Language selection English, Chinese, French, German, Spanish	*	*	*	*

Specifications

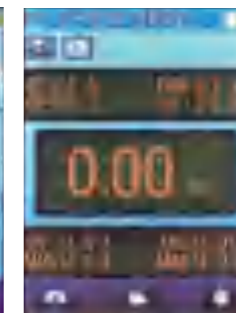
Particle Counter		9880	9881	9880M/9881M	9883M
Channel	0.3, 0.5, 1.0, 2.5, 5.0, 10μm	*	*	*	*
Flow Rate	0.1ft <sup>3</sup> (2.83L/min) controlled by internal pump	*	*	*	*
Count Modes	Totalize, Concentration, Audio	*	*	*	*
Coincidence Loss	5%, 2,000,000 particles per ft <sup>3</sup>	*	*	*	*
Mass Concentration Channel	PM2.5 : 0~500ug/m <sup>3</sup> ; PM10: 0~500ug/m <sup>3</sup>			*	*
<b>Air Temperature Measure</b>					
Air Temp Range	0 to 50°C/32 to 122°F; Basic Accuracy: ±0.5°C/1°F	*	*	*	*
Humidity Range	0 to 100%RH; Basic Accuracy: ±2.5%RH(20%~80%RH)	*	*	*	*
Dew Point Temp. Range	-30~100°C/ -22~199°F	*	*	*	*
Wet Bulb Temp. Range	0~80°C/ 32~176°F	*	*	*	*
<b>GAS Detectors</b>					
HCHO (methanal) Range	0.01~5.00ppm; Basic Accuracy: ±5%F.S		*	*/-	*
CO (carbon monoxide) Range	0~1000ppm; Basic Accuracy: ±5%F.S		*	*/-	*
CO <sub>2</sub> Range	0~9999ppm; Basic Accuracy: ±75PPM ±5% of reading				*
TVOC Range	0.00~10mg/m <sup>3</sup> ; Accuracy: ±5%F.S				*

Size(HxWxD): 240mm x 75mm x 57mm  
Weight: 570g

Accessories :  
NiMH battery, gift box with carrying case.



Main Menu



GAS Detectors



Show reading on the images



JPG images/AVI videos



9850M/9851M are Particle Counter with 2.8" color TFT LCD display & a microSD memory card, providing fast, easy and accurate readings for particle counter, HCHO detector, air temperature & relative humidity measurement. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save. The dewpoint temperature measurement will be very visible for wet and dry proof. It is a good hand tool for industrial measurements and data analyzing, the real scene and time can be displayed on color TFT LCD. Any memory readings can be recorded in SD card. The user can be back in office to analyze the measured air quality under the support of software.



EMC  
EN: 61326

Model 9851M

**Specifications**

Particle Counter	
Channel	0.3, 0.5, 1.0, 2.5, 5.0, 10µm
Flow Rate	0.1ft <sup>3</sup> (2.83L/min) controlled by internal pump
Count Modes	Totalize, Concentration, Audio
Coincidence Loss	5%, 2,000,000 particles per ft <sup>3</sup>
Mass Concentration Channel	PM2.5 : 0~500ug/m <sup>3</sup> ; PM10: 0~500ug/m <sup>3</sup>
Air Temperature Measure	
Air Temp Range	0 to 50°C/32 to 122°F; Basic Accuracy: ±1°C/1.8°F
Humidity Range	0 to 100%RH; Basic Accuracy: ±3.5%RH(20~80%RH) ±5%RH(0~20%RH) ±5%RH(80~100%RH)
Dew Point Temp. Range	-30~100°C/ -22~199°F
Wet Bulb Temp. Range	0~80°C/ 32~176°F
HCHO Detectors	
HCHO (methanal) Range	0.01~5.00ppm; Basic Accuracy: ±5%F.S

**Size(HxWxD):** 240mm x 75mm x 57mm    **Accessories :**  
**Weight:** 570g    NiMH battery, gift box with carrying case.

**PM-280/CM-280 PM2.5 Air Quality Detector**



EMC  
EN: 61326

Model PM-280

**Features**

PM2.5/PM10 (PM-280)
Air temperature and humidity
HCHO/ TVOC/CO detection
CO <sub>2</sub> detection (CM-280)
Auto Power Off
Wireless interface



**Specifications**

	Size Channels	Range	Precision	Resolution	PM-280	CM-280
Particulate matter detection	PM2.5/PM10	0~2000ug/m <sup>3</sup>		1 ug/m <sup>3</sup>	*	*
HCHO detection		0.00~5.00ppm	±5% F.S	0.01ppm	*	*
TVOC detection		0.00~9.99ppm	±5% F.S	0.01ppm	*	*
CO <sub>2</sub> detection		0~9999ppm	±75 ppm ±5% of reading	1ppm	*	*
CO detection		0~1000ppm	±5% F.S	1ppm	*	*
Temperature		-10 to 60°C / 14 to 140°F	±2°C (±3.6°F)	0.1°C /°F	*	*
Humidity		0~100%RH	±3.5%RH(20~80%RH) ±5%RH (0~20%RH/80~100%RH)	0.1%RH	*	*

**Size(HxWxD):** 112mm x 60mm x 50mm    **Weight:** 240g  
**Accessories :** NiMH battery, gift box with carrying case.

9680 Series is Particle Mass Concentration Monitor with LCD display, providing fast, easy and accurate readings for particle counter, air temperature & relative humidity measurements. It can real-time monitor the indoor air quality and can store 5000 data, help you know the the health level of indoor environment. It will open the wireless interface, implementing household electronic products such as air conditioner, air purifier, so as to realize home automation and environment protection.

**Features**

	9680	9681	9682
Digital LCD display	*	*	*
Indicates health level of indoor environment.	*	*	*
PM2.5/PM10	*	*	*
HCHO detector	*	*	*
TVOC detector	*	*	*
CO <sub>2</sub> detector		*	*
Air temperature and humidity detector	*	*	*
Memory for 100 complete data sets (counts, relative humidity, temperature, date, time)	*	*	*
Date/Time setup controls, alarm	*	*	*
Low-power consumption mode	*	*	*
Wireless interface (Optional)			

**Specifications**

	9680	9681	9682
Particle Mass Concentration			
Channel	PM2.5 : 0~999ug/m <sup>3</sup>	*	*
Channel	PM10 : 0~999ug/m <sup>3</sup>	*	*
Air Temperature Measurement			
Air Temp Range	-20 to 70°C/-4 to 158°F ; Basic Accuracy: ±1°C/°F	*	*
Humidity Range	0 to 100%RH;	*	*
Basic Accuracy:	±3.5%RH@20 to 80%RH ±5%RH@0 to 20%RH or 80 to 100%RH	*	*
Gas Detectors			
HCHO Range	0.01~5.00 ppm; Basic Accuracy: ±5% F.S	*	*
TVOC Range	0.01~9.99 ppm; Basic Accuracy: ±5% F.S	*	*
CO <sub>2</sub> Range	0~10000 ppm; Basic Accuracy: ±5%±75ppm	*	*

**Size(HxWxD):** 160mm x 85mm x 73mm    **Accessories :**  
**Weight:** 360g    NiMH battery, gift box with carrying case.

**DT-968/968W/969/969W PM2.5 Air Quality Detector**

968/969 is a new core algorithm, comprehensive dynamics, night detection, digital signal processing, optical electro-mechanical integration, and other high-tech. Testing has high precision, stable performance, fast response time, easy to carry, easy to operate. On PM2.5 testing to innovative design and algorithm, greatly reducing the cost of the tester, and reach the international advanced level of similar products.

**Features**

	968	968W	969	969W
2.4" TFT 320 x 240 pixels Color LCD display	*	*	*	*
PM2.5/PM10	*	*	*	*
Air temperature and humidity	*	*	*	*
Analog bar indicator	*	*	*	*
Auto Power Off	*	*	*	*
HCHO			*	*
Wireless interface		*	*	*

**Specifications**

	968	968W	969	969W
Particle Counter Channel	2.5,10um	*	*	*
Mass Concentration	PM2.5:0~2000ug/m <sup>3</sup> ;PM10:0~2000ug/m <sup>3</sup> ;	*	*	*
Resolution	1ug/m <sup>3</sup>	*	*	*
HCHO	0.00~5.00mg/m <sup>3</sup>		*	*
HCHO Accuracy	±5%F.S		*	*
Air Temperature Measurement				
Air Temp Range	0 to 50°C/32 to 122°F	*	*	*
Basic Accuracy	±1°C/1.8°F	*	*	*
Humidity Range	0 to 100%RH	*	*	*
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH	*	*	*

**Size(HxWxD):** 160mm x 85mm x 73mm    **Accessories :**  
**Weight:** 360g    NiMH battery, gift box with carrying case.



EMC  
EN: 61326



Model 9680



EMC  
EN: 61326

Model 968



Mini Particle Counter



EMC  
EN: 61326



96 Particle Counter with 2.0" color TFT LCD display provides fast, easy and accurate readings for particle counter & particle mass concentration with air temperature & relative humidity measurements. It is the first combination of these measurements in global, would be the best instrument for environment protection and energy save.

96B provides particle counter, air temperature, relative humidity with Bluetooth interface.  
96H provides particle counter, air temperature, relative humidity & HCHO Measurement.



EMC  
EN: 61326



Model 96

Features

	96	96B	96H
2.0" TFT 220*176 pixels Color LCD display	*	*	*
The determination of suspend particle concentration in the air of the weight method (PM2.5/PM10)	*	*	*
Particle Counter PM2.5/PM10	*	*	*
Air temperature and humidity	*	*	*
Auto Power Off	*	*	*
Real time clock display	*	*	*
Analog bar indicator	*	*	*
HCHO Measurement			*
Bluetooth interface		*	*

Specifications

	96	96B	96H
Particle Counter			
Channel	2.5,10um	*	*
Mass Concentration	PM2.5:0~2000ug/m3; PM10:0~2000ug/m3;	*	*
Resolution	1ug/m3	*	*
Air Temperature Measure			
Air Temp Range	0 to 50°C/32 to 122°F	*	*
Basic Accuracy	±1°C/1.8°F	*	*
Humidity Range	0 to 100%RH	*	*
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH	*	*
HCHO Measurement			
HCHO Range	0 to 5.00PPM		*
Basic Accuracy	±5% F.S		*

Size(HxWxD): 185mm x 55mm x 38mm  
Weight: 139g

Accessories :  
NiMH battery, gift box with carrying case.



EMC  
EN: 61326



Model 96H





**Conformance**

- ISO 21501-4
- Bluetooth interface
- Wi-Fi connectivity(9891)



This is a new type of particle counters, HVAC and IAQ specialist is the tool of choice, high-precision particle counter can be used to measure the filtration efficiency, monitoring, industrial clean rooms, pre-check the indoor air quality, locating particle sources in order to effectively improve the environment quality. This section particle counter has a large display, intuitive user interface and navigation map that allows users to test faster, simple and practical. Handheld design, can be used in any position, with Bluetooth or wireless technology or a USB cable for data output and the convenience of anytime, anywhere viewing and analyzing data.

Features	9890	9891
3.5" TFT 960x480 pixels Color LCD display	*	*
Images(JPEG) & Video(3GP)	*	*
Simultaneously measure and display 6 channel of particle sizes, measure particle size down to 0.3 μm	*	*
Air temperature and humidity, Dewpoint & Wet bulb temperature	*	*
Max, Min, DIF, AVG record, Date/time setup controls, alarm	*	*
MicroSD (MAX. use 8GB) memory card, USB interface	*	*
Auto Power Off	*	*
Selectable sample time, count data, programmable delay	*	*
Store 10000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location label	*	*
Language selection English, Chinese, French, German, Spanish	*	*
Bluetooth interface	*	*
Wi-Fi connectivity	*	*

Specifications	
<b>Particle Counter</b>	
Channel	0.3, 0.5, 1.0, 2.5, 5.0, 10μm
Flow Rate	0.1ft <sup>3</sup> (2.83L/min) controlled by internal pump
Light source	Laser
Count Modes	Cumulative, Differential Concentration
Count efficiency	50% @0.3um; >0.45um 100% (according to ISO21501)
Zero count	every five minutes counting (JIS B9921)
Concentration limits	10%, 4,000,000 particles per ft <sup>3</sup>
Delay time	0 -24 hour
Calibration	PSL particles in air
Operation environment	10 to 40°C (50°F to 104°F)
Storage environment	-10 to 50°C (-14°F to 122°F)
<b>Air Temperature Measure</b>	
Air Temp Range	0 to 50°C/32 to 122°F; Basic Accuracy: ±1°C/2°F
Humidity Range	0 to 100%RH; Basic Accuracy: ±3.5%RH(20%~80%RH)
Dew Point Temp. Range	-30~100°C/ -22~199°F
Wet Bulb Temp. Range	0~80°C/ 32~176°F

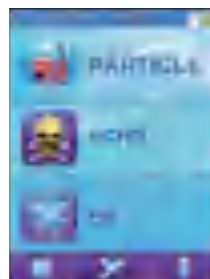
Model 9890

**Size(HxWxD):** 92mm x 239mm x 63mm

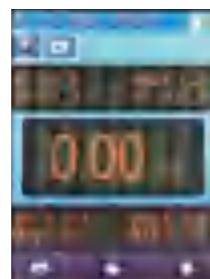
**Weight:** 790g

**Accessories:**

3.7V Li battery, USB cable, CD, gift box with carrying case.



Main Menu



GAS Detectors



Show readings on the images



6 channel of particle sizes

PM-127 is the device that contains PM2.5, PM10, HCHO, TVOC, CO2, temperature and humidity detecting. The device uses high precision sensor to ensure the reliability of detecting. What makes it different is the PM-127 uses NB-IoT(Narrow Band Internet of Things) technology.

**Features**

- Detecting PM2.5&PM10&HCHO&TVOC&CO2
- Air temperature and humidity
- NB-IoT remote communication
- RS-485 communication interface
- Breathing lamp
- Hang it on the wall
- AC-220V&DC-24V power supply



NB-IoT

Model PM-127

Specifications	Size Channels	Range	Precision	Resolution
Particulate matter detection	PM2.5/PM10	0~2000ug/m <sup>3</sup>		1 ug/m <sup>3</sup>
HCHO detection		0.00~5.00ppm	±5% F.S	0.01ppm
TVOC detection		0.00~9.99ppm	±5% F.S	0.01ppm
CO2 detection		0~9999ppm	±75 ppm ±5% of reading	1ppm
Temperature		-10 to 60°C / 14 to 140°F	±2°C (±3.6°F)	0.1°C /°F
Humidity		0~100%RH	±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)	0.1%RH

**PM-122 PM2.5 Air Quality Detector**

PM-122 is a new core algorithm, comprehensive dynamics, night detection, digital signal processing, optical electromechanical integration, and other high-tech. Testing has high precision, stable performance, fast response time, easy to carry, easy to operate.

**Features**

- 2.4" TFT 320 x 240 pixels Color LCD display
- The determination of suspend particle concentration in the air of the weight method (PM2.5/PM10)
- Air temperature and humidity
- Analog bar indicator
- Auto Power Off
- Wireless interface



Model PM-122

Specifications	
Particle Counter Channel	2.5, 10um
Mass Concentration	PM2.5:0~2000ug/m <sup>3</sup> ; PM10:0~2000ug/m <sup>3</sup> ;
Resolution	1ug/m <sup>3</sup>
<b>Air Temperature Measurement</b>	
Air Temp Range	0 to 50°C/32 to 122°F
Basic Accuracy	±1°C/1.8°F
Humidity Range	0 to 100%RH
Basic Accuracy	±5%RH @0 to 20%RH and 80 to 100%RH ±3.5%RH @20 to 80%RH

**PM-125 PM2.5 Air Quality Detector**

**Features**

- Intelligent control purifiers, air purification equipment new fan
- 2.8" TFT Color display with 320\*240 Pixels
- Simultaneous measurement of PM2.5 and PM10
- Analog bar indication & Auto power off
- Wi-Fi IEEE802.11b/g/n Communication Interface



Specifications	Size Channels	Range	Precision	Resolution
Particulate matter detection	PM2.5/PM10	0~2000ug/m <sup>3</sup>		1 ug/m <sup>3</sup>
HCHO detection		0.00~5.00ppm	±5% F.S	0.01ppm
TVOC detection		0.00~9.99ppm	±5% F.S	0.01ppm
CO2 detection		0~9999ppm	±75 ppm ±5% of reading	1ppm
Temperature		-10 to 60°C / 14 to 140°F	±2°C (±3.6°F)	0.1°C /°F
Humidity		0~100%RH	±3.5%RH(20~80%RH) ±5%RH(0~20%RH/80~100%RH)	0.1%RH

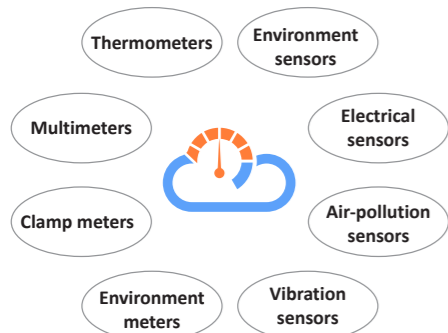


Model PM-125





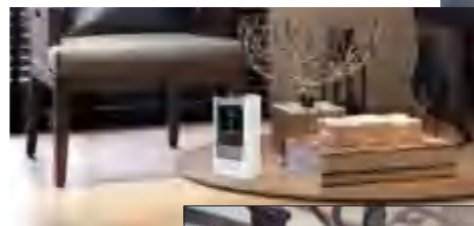
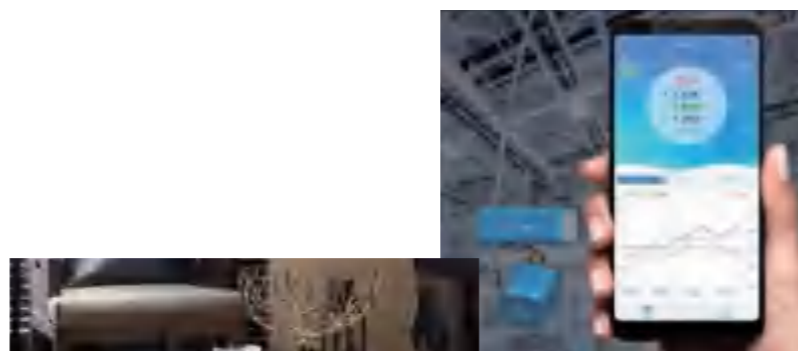
Meterbox Connect IoT platform enables your meters or sensor devices to be safely and efficiently connected to the network, allowing you and your team members to monitor measurement data in real time, easily manage assets, get the latest data at any time, and receive alarms in time.



Connect your measurement world

## Wisdom leads the future life

The wide applications of Bluetooth, WIFI, ZIGBEE, GPS, NB-IoT etc involve extending Internet connectivity beyond standard devices, such as desktops, laptops, smartphones and tablets, to any range of traditionally dumb or non-internet-enabled physical devices and everyday objects. Embedded with technology, these devices can communicate and interact over the Internet, and they can be remotely monitored and controlled. CEM IoT applications are: Intelligent agriculture, transportation, security system, air conditioning, healthcare, power grid etc.



Wireless sensors paired with Meterbox Connect APP can improve your maintenance program.

- Real-time monitor assets
- Asset trends analysis
- Troubleshoot and identify eventseasily and quickly
- Receiving alarms in time from anywhere
- Create analysis report



Vibration sensor



DT-188V

AC Current & Voltage Datalogger



DT-176CV2



Food Safety

Multiple Thermocouple Thermometer



DT-270KT

2 in 1 Infrared & Folding Thermometer



IR-95

Pen Type Thermometer



DT-133A



Air Quality

PM2.5 Air Quality Detector



PM-127

PM2.5 Particle Counter



PM-500



Leyu Ecosphere

Leyu Non-contact Clinic Forehead Infrared Thermometer



Leyu3

Intelligent Anti-Pollution Mask



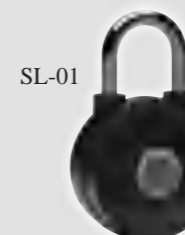
PM-10

Fan speed is adjusted by user's breath  
PM2.5 Air Quality Protection



Smart Locks

Smart Lock



SL-01



SL-02



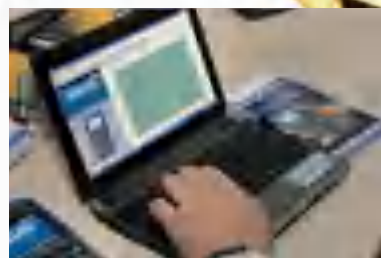
Professional Automotive Oscilloscope Multimeter with TFT color LCD display



CE  
EMC & LVD  
EN: 61326  
EN: 61010-1, EN: 61010-02-031

9996 is Professional Automotive True RMS Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features.

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature(°C/°F), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.



Bluetooth PC interface



- Safety Conformance**
- EN61010-1 CAT IV 600V, CAT III 1000V
  - 1000V input protection on all ranges
  - 10A/1000V & 0.5A/1000V fuses protection on current ranges

- IP67 dust and water proof
- True RMS
- Cloud computing



Model 9996

**Features**

- Large 50,000 count 320 x 240 TFT color LCD display
- 10MHz/50MS/s bandwidth/Real time sample rate
- Logging function with TrendCapture for easy review of logged data
- Bluetooth PC interface for easy data transfer & accuracy calibration
- 100kHz/100kHz bandwidth (voltage/current)
- AC, AC+DC true-RMS measurements
- Records events and trends
- Saves measurements
- A/D convert fast sampling time
- Peak capture (records transients as fast as 250µs)
- Min/Max/Average with Time stamp (records signal fluctuations)
- Motor winding and low ohm (50Ω) measurement range
- Low pass filter
- IP Rating 67
- Compatible with AC/DC clamp-on adaptor with bluetooth at mV range

- TFT color LCD display
- 50000 counts

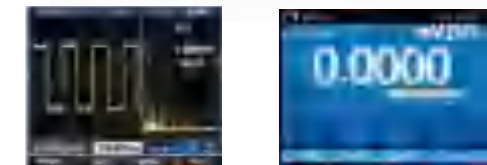
CE  
EMC & LVD  
EN: 61326  
EN: 61010-1, EN: 61010-02-031



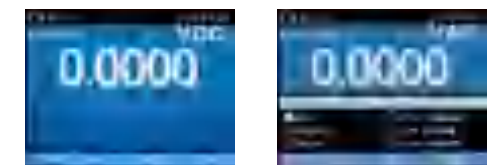
**Specifications**

Oscilloscope Functions			
Display Size	3.5" color LCD; 320 x 240 pixels		
Bandwidth	10MHz		
Real time sample rate	50MS/s		
Risetime	17.5ns		
Glitch Capture	50ns		
Vertical Sensitivity	20mV to 100V/div		
Vertical Resolution	8 bits		
Trigger Mode	Ferr Run, Single Shot, Edge		
Trigger Source	CH1		
Trigger Coupling	AC/DC		
Input impedance	1MΩ/20pF		
Max Input Volatge	400V(peak)		
Cursor Measurement	Voltage and time		
Automotive True RMS Multimeter Functions			
Function	Maximum	Max. resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.07% + 5)
Temperature	-50°C to 1350°C	0.1°C	±(1.0% + 1°C)
Resistance	50MΩ	0.1Ω	±(0.05% + 2)
Capacitance	10mF	0.001nS	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)		±(2.5%+2d)
Dwell Angle	1CYL, 2CYL, 3CYL, 4CYL, 5CYL, 6CYL, 8CYL, 10CYL, 12CYL		±(2.5%+2d)
Duty Cycle	0.1~99.9%		±(1.5%+2d)
Period	0.1~20mS		±(3.0%+5d)
Pulse Width	0.1~10mS		±(3.0%+5d)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery;AC Adaptor/charger		

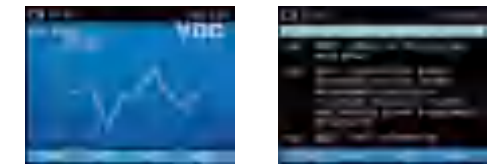
**Size(HxWxD):** 220mm x 96mm x 60mm  
**Weight:** 631g  
**Accessories:**  
 Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.



10MHz Oscilloscope Function Fast response time



High Resolution & Accuracy Multifunction Selectable



Trend Capture function Help Menu

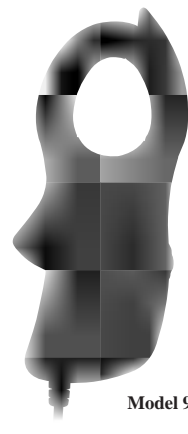


Auto-ranging Automotive Digital Multimeter

9008/3116 are designed as special automotive digital multimeter and clamp type meter for oil field.



Model 9008



Model 9008C

Specifications			
Function	Range	Resolution	Basic Accuracy
Voltage DC	0V~700V	0.01V	±(0.8%rdg+5dgt)
Voltage AC	0V~700V	0.01V	±(0.8%rdg+5dgt)
Current AC	1A~300A	0.1A	±(2.8%rdg+5dgt)
Resistance	1ohm~10Mohm	0.1ohm	
Phase	0°~360°	1°	±3°
Duty Cycle	0.1 to 99.9%	0.1%	
Frequency	10Hz~400Hz	0.01Hz	±(2.0%rdg+3dgt)
Measure Phase condition	Voltage: 50V~700V/ Current: ±(2.8%rdg+5dgt)		
Well number	100number		
Data save	1000		
Duty Cycle	± (1.2% reading +2 digits)		
Clock	Year month date		
Display	TFT, 320 (RGB) x240		
Measurement Rate	3 times per second		
Input impedance	About: 10MΩ		

Specifications 9008C		
Function	Range	Accuracy (% of reading)
AC Current (50/60Hz)	30.00AAC 300.0AAC	± (2.8 % + 10 digits) ± (2.8 % + 5 digits)

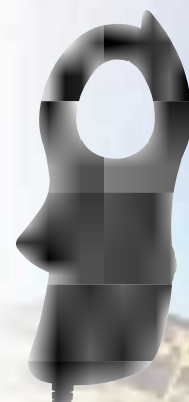
**Size(HxWxD):** 170mm x 79mm x 50mm (9008), 197mm x 70mm x 40mm (3116)  
 150mm x 58mm x 35mm (9008C)

**Weight:** 188g (9008), 183g (3116), 205g (9008C)

**Accessories:** Test leads, Inductive pick-up, 9V battery and gift box with carrying case.

 EMC & LVD  
 EN: 61326  
 EN: 61010-1, EN: 61010-02-031


Model 3116



Model 9008C



Automotive Digital Multimeter provides multi-functions:

- RPM(RPM 2 Stroke or 4 Stroke mode active) measurement for automotive engines with 4 to 8 Cylinders using the inductive Pick-up.
- Oversized high contrast LCD display with backlight.
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition
- Data Hold, Relative functions & auto power off.
- Fused current inputs and Overload protection on all ranges.

Auto-ranging Automotive Digital Multimeter



Model AT-9906DIS


 EMC & LVD  
 EN: 61326  
 EN: 61010-1, EN: 61010-02-031

Features		
	9906DIS	9965
Digital display counts	3200 with Analog Bargraph	4000 with Analog Bargraph
Auto ranging	*	*
1ms Peak hold, MAX/MIN hold		*
Overload protection on all ranges	*	*
Low battery indication	*	*
Inductive Pick-up	*	*

Specifications			
Function	9906DIS Range	9965 Range	Basic Accuracy
Voltage DC	320mV/3.2V/32V/320V/600V	400mV, 4V, 40V, 400V, 600V	±(0.5%+2d)
Voltage AC	3.2V, 32V, 320V, 600V	400mV, 4V, 40V, 400V, 600V	±(0.8%+4d)
Current DC	320uA, 3200uA, 32mA, 320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.2%+2d)
Current AC	320uA, 3200uA, 32mA, 320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.5%+4d)
Resistance	320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 32MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	600~4000RPM; 600~12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	0.1~99.9%	±(1.5%+5d)
Frequency	320Hz/3200Hz/32kHz	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
Capacitance		40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF	±(3.0%+2d)
Pulse Width		0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.		
Continuity Test	Threshold 35Ω, Continuity Beeper 2kHz		

**Size(HxWxD):** 170mm x 79mm x 50mm  
**Weight:** 366g

**Accessories:** Test leads, type K temperature Probe, Inductive pick-up, 9V battery and gift box with carrying case.

**AT-9955 Automotive Digital Multimeter With IR Laser Thermometer**

Automotive Digital Multimeter provides multi-functions:

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- Oversized high contrast 4000 counts LCD display with backlight
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (IR Temperature) (°C/°F), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold, Relative functions/ Auto Power Off
- Fused current inputs and Overload protection on all ranges.
- Measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.

Automotive Digital Multimeter With IR Laser Thermometer

IP67 Dust and water proof



Model AT-9955

Specifications		
Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 700V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Frequency	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
IR Temperature	-20°C ~ 550°C/-4°F ~ 1022°F	±(3.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF	±(3.0%+2d)
Pulse Width	0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2kHz	

**Size(HxWxD):** 182mm x 82mm x 55mm  
**Weight:** 360g

**Accessories:** Test leads, type K temperature Probe, IR temperature probe (IR-82 optional), Inductive pick-up and 9V battery, Gift box with carrying case.



CF-01/01S/CFCL-01/01S Car Fuse Adapter



Model CF-01S



EMC  
EN: 61326

CF-02/02S/03/03S/04/04S Car Current Testers



Model CF-02

Measuring adaptor for easy current detection and measurement of 200mA/20A/30A currents on blade-type be connected to any commercially available by a 4mm-banana plug/pin plug.

Specifications

MODEL	Fuse Type	1999 Counts LCD Display	Resolution	Banana Plug	Measuring Range	Accuracy
CF-01	20A/ Max-Blade			*	20A/48VDC/AC-10sec.	±2.0% reading
CF-01S	20A/ Mini-Blade			*	20A/48VDC/AC-10sec.	±2.0% reading
CF-02	20A/ Max-Blade	*	10mA		20A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-02S	20A/ Mini-Blade	*	10mA		20A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-03	1A/Max-Blade	*	0.1mA		200mA/48VDC	±(1.5% reading + 2 digits)
CF-03S	1A/Mini-Blade	*	0.1mA		200mA/48VDC	±(1.5% reading + 2 digits)
CF-04	30A/Max-Blade	*	100mA		30A/48VDC-10sec.	±(2.0% reading + 2 digits)
CF-04S	30A/Mini-Blade	*	100mA		30A/48VDC-10sec.	±(2.0% reading + 2 digits)

Maximum measuring voltage: 48V max.

Cable length: approx. 75cm

Size(HxWxD): CF-01/01S: 84mm x 30mm x 10mm Weight: 77g

Size(HxWxD): CF-02/02S/03/03S/04/04S: 86mm x 37mm x 28.5mm Weight: 68g

Accessories:

12V battery (CF-02/02S/03/03S/04/04S).



Model CFCL-01

Max-Blade Type

Mini-Blade Type



BT-120

Automotive Battery Tester

Battery Conductance and Electrical System Analyzer can be used to detect 6 volt-12 volt ordinary lead-acid batteries. It can display test results in seconds.

Features

- Test battery testing ranges from 100 to 2000 CCA
- Detect bad cells
- Test deep discharge battery
- Protect against reverse polarity
- Multiple battery rating systems: CCA, JIS, EN, DIN, SAE, IEC

Size(HxWxD): 168mm x 78mm x 38mm  
Weight: 265g



EMC  
EN: 61326



Model BT-120

CF-06/08 Automotive Current Testers

Features

- Large 3 1/2 LCD display with bar graph
- Peak hold and Data hold function (CF-08)
- 30 A measurement greater than the current alarm sounds will be issued (CF-08)
- DCA zero for accurate measurement
- Unit with Max/Mini-Blade plug

Specifications

Fuse Type	Resolution	Banana Plug	Measuring Range	Accuracy
CF-06: 30A/Max-Blade	100mA	30A/48V/DC/AC	0-30A ±2.0% reading	
CF-08: 80A/Max-Blade	100mA	80A/48V/DC/AC	0-80A ±2.0% reading	



Size(HxWxD): CF-06/08: 112mm x 45mm x 33mm  
Weight: 165g  
Size(HxWxD): 165mm x 40mm x 33mm  
Weight: 200g



Accessories:  
Clamshell and 9V battery.



Model CF-06



EMC  
EN: 61326

Model CF-08



True RMS (AT-9950T)



AT-9950DIS/9950T/AT-950A/950B are very versatile automotive meters and can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

- AT-9950DIS/9950T: RPM (RPM 2 Stroke or 4 Stroke mode active) measurements for automotive engines with the Inductive Pickup
- AT-950B: RPM measurement for automotive engines with the inductive Pickup
- AT-950A: RPM measurements for automotive engines with the test leads
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition

Features	9950DIS/9950T	950A	950B
Digital display counts	3200 with Analog Bargraph	2000	2000
AC True RMS	9950T		
Auto ranging	*		
Manual ranging		*	*
Overload protection on all ranges	*	*	*
Data Hold	*		
Low battery indication	*	*	*
Inductive Pick-up	*		*



EMC & LVD  
EN: 61326  
EN: 61010-1,  
EN: 61010-02-031



Specifications				9950DIS/9950T	950A	950B
Function	Max. Range	Resolution	Basic Accuracy			
Voltage DC	600V	0.1mV	±(0.5%+2d)		*	*
	1000V	0.1mV	±(0.5%+2d)	*		
Voltage AC	750V	1mV	±(1.0%+2d)	*		
Current DC	10A	0.1uA	±(1.5%+2d)	*	*	*
Current AC	10A	0.1uA	±(1.5%+2d)	*		
Resistance	32MΩ	0.1Ω	±(2.0%+3d)	32M	20M	20M
RPM (Tach)	12,000RPM	1RPM	±(2.0%+5d)	*	10,000RPM	*
Dwell Angle	2~10CYL	0.1°	±(1.2%+2d)	*	*	*
Frequency	32kHz	0.1Hz	±(1.2%+2d)	*		
Duty Cycle	0.1%~99.9%	0.1%	±(1.2%+2d)	*		
Temperature	760°C/1400°F	0.1°C/°F	±(3.0%+3d)	*		
Diode Test				*	*	*
Continuity Check				*	*	*

Size(HxWxD): AT-9950DIS/9950T : 189mm x 91mm x 31.5mm

AT-950A/AT-950B : 209mm x 43mm x 30mm

Weight: AT-9950DIS/9950T : 280g

AT-950A/AT-950B : 200g

**Accessories:**

9V Battery, Rubber holster and Inductive pick-up(except AT-950A)

True RMS (AT-9945T)

Large LCD display



**Automotive Digital Multimeter provides multi-functions:**

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up
- AT-9945T is True RMS Autoranging Automotive DMM
- Oversized high contrast 4000 counts LCD display with backlight
- 13 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (°C/°F), Capacitance, Continuity and Diode Check
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold and Relative functions
- Over-range indication
- Auto Power Off
- Fused current inputs and Overload protection on all ranges
- AT-9945/9945T measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls



EMC & LVD  
EN: 61326  
EN: 61010-1,  
EN: 61010-02-031



**Specifications**

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 700V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Frequency	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 100uF	±(3.0%+2d)
Pulse Width (9945)	0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 1.5V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7KHz	

Size(HxWxD): AT-205P: 146mm x 66mm x 41.5mm

AT-9945/9945T: 195mm x 92mm x 38mm

Weight: AT-205P: 200g;

AT-9945/9945T: 380g

**Accessories:**

Rubber holster, Test leads, type K temperature Probe, Inductive pick-up and 9V battery.







EMC  
EN: 61326

Model AT-9135

Automotive Circuit Multi-Function Tester is an equipment used to test the automotive electrical system within 12 to 24 volts. It can save the testing hours for the automotive electrical system. It is designed to testing the system without re-connection between the vehicle battery and the testing components.

**Functions**

- Determine the polarity and circuit circumstance (short/open)
- Activating the components with positive or negative current without jumper wire
- Testing the continuity of the circuit
- Digital LCD display with backlight
- Locate missing cylinders
- Measuring frequency of the high-tension ignition pulses and we could calculate the rotational speed of engine according to the measured frequency
- Peak detection
- Testing the voltage of the circuit and the voltage reading will be indicated on the LCD display within 1/10th of a volt

Size(HxWxD): 240mm x 78mm x 40mm  
Weight:200g



EMC  
EN: 61326

Model CF-09

**CF-09 Automotive Current Short Tester**

The automotive current short tester can test vehicle's short-circuit current range from 10 to 30 amp with CF-01/CF-01S adapters. LED indicate the circuit range. It is convenient to operate.

**Features**

- Determine the circuit circumstance(short or open)
- LED indication
- Over-load audible warning
- Manual and automatic test function
- Measurement current range:10A,15A,20A, 25A, 30A.
- Power charge by vehicle battery

Size(HxWxD): 200mm x 78mm x 44mm  
Weight:206g  
Accessories: CF-01/CF-01S adapter, Gift box.

**DT-9010 Automotive Circuit Voltage Tester**

Model 9010

**Features**

- Test common automotive circuits up to 12 volts
- Bright 360 degree visual indication
- Alligator clip connects to ground
- Long flexible test lead
- Quickly test automotive circuits for proper voltage
- Tests auto wiring, fuses, battery source

Size(HxWxD):189mm x 26.5mm x 2.6mm  
Weight: 60g



AT-9995 is professional Automotive DMM with RS232 interface, AT-9995E is with wireless USB interface; It can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

**Features**

- Oversized high contrast 4000 counts with Bargraph backlight LCD Display
- RPM measurement for automotive engines with 1 to 12 Cylinders using the inductive pick-up
- Data Hold and Relative functions
- Max Hold and Min Hold
- Auto Power Off
- Fused current inputs and overload protection on all ranges



EMC & LVD  
EN: 61326  
EN: 61010-1, EN: 61010-02-031

Wireless USB Interface (RF 433MHz) (AT-9995E)

Large LCD display

**Specifications**

Function	Max Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 750V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.5%+2d)
Dwell Angle	1CYL, 2CYL, 3CYL, 4CYL, 5CYL, 6CYL, 8CYL, 10CYL, 12CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Period	0.1~20mS	±(3.0%+5d)
Pulse Width	0.1~10mS	±(3.0%+5d)
Frequency	30kHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
Diode Check	Open circuit voltage 1.5V dc typical; Test current 0.3mA typical	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7kHz	



Size(HxWxD): 197mm x 88.4mm x 41.2mm  
Weight: 635g

**Accessories :**

Rubber holster, Test leads, type K temperature Probe, software, RS-232 cable/USB interface, Pick-up, 9V battery and gift box with carrying case.





TP-5 Tire Pressure Gauge



Model TP-5



- White LED lighted tip helps you find the tire stem easily
- Much easier use than conventional air gauges
- Red pushbutton turns on/ off and units selected
- Measures tire pressures of 5 to 100 pounds per square inch (PSI)
- Press red pushbutton turns on, LCD display 0.00 PSI
- Take the tire gauge spiracle at the tire stem, then the Tire gauge will memorize the maximal pressure value
- Press red pushbutton to select the different units, takes turns as PSI, Kpa, Bar
- Press red pushbutton 5s to turn off the tire gauge

Specifications

Range	5-100PSI
Accuracy	±(1%+0.5)PSI

Size(HxWxD): 156mm x 42mm x 20mm  
 Weight: 77g  
 Accessories:  
 One CR 2032 button battery, clamshell

AT-5 Engine Tachometer

The AT-5 tachometer can measure RPM of engine by bringing it close to plug cord of the engine. This tachometer has many measuring modes for various types of engines like 2 stroke ( 1 and 4 cylinders), 4 strokes( 1, 6 and 8 cylincers). An antenna lead is supplied to use if needed.

- Measuring method count pulses
- RPM display interval 0.5sec
- Accuracy ±10 RPM



Model AT-5



Specifications

Measurable Engine		Measurable RPM Range
Stroke	Cylinder	
2	1	100~20000
4	2	
4	3	100~13000
2	2	100~10000
4	4	100~6500
2	3	
4	6	100~20000
4	1	
4	5	100~7000
2	4	100~4800
4	8	

Size(HxWxD): 156mm x 42mm x 20mm  
 Weight: 77g  
 Accessories:  
 Antenna lead and hang strap, Gift box with carrying case.

Automotive Testers

RT-05 Automotive Relay Tester

Quickly and accurately test 3 terminal electro-mechanical relays for many domestic and imported automobiles. The Automotive relay tester will interrogate and identify an unknown relay terminal configuration then self configure its own internal circuitry to perform all required test functions automatically. The Automotive relay tester can be used to perform the following tests: coil resistance, surge suppression device (resistor or diode), open/closed contact integrity, contact cyclic testing for intermittent failure detection, loaded contact continuity, relay contacts stuck open or closed and time to contact closure and opening. Unit automatically indicates test results with a series on red, green and yellow performance lights.

CE  
 EMC  
 EN: 61326



Model RT-05

Specifications

Coil Resistance	20 to 500 ohms (includes any parallel transient suppression resistors)
Coil Test Voltage	9 Volts
Contact Resistance Threshold	200 Milliohms

Size(HxWxD): 128mm x 68mm x 30mm  
 Weight: 185g  
 Accessories:  
 One 9V battery, clamshell

BT-12 Digital Automotive Battery Analyzer

AT-05A Automotive Tachometer

Professional digital tachometer measures accurate engine RPM with Inductive Pick-up



AT-05A  
 CE  
 EMC  
 EN: 61326



3 colors LED indicate different conditions

CE  
 EMC  
 EN: 61326

AT-05B Automotive Tachometer



RPM measurement for automotive engines with 1 to 8 Cylinders.

CE  
 EMC  
 EN: 61326



AT-05B



AT-953

RT-01 Refractometer for Anti-freeze & Battery Fluid testing

CE  
 EMC  
 EN: 61326

- Range: Ethylene glycol 1.15-1.30 specific gravity
- Minimum Scale Division: 5°C
- Automatic Temperature
- Compensation range: 10 to 30°C





<p><b>WRNM-1503</b></p>	<p><b>WRNM-1501</b></p>	<p><b>WRN-01D</b></p>	<p><b>WRN-01CF</b></p>
<p><b>WRN-01BF</b></p>	<p><b>WRF-02BLJ</b></p>	<p><b>TL-901</b></p> <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>TL-204</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT II 1000V / CAT III 600V Current Rate: 10A</p>
<p><b>SD-9904</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: 5000VDC Hands-Free, 70VDC Handheld Current Rate: 15A Max</p>	<p><b>SD-9903B</b></p> <p>Specification: 1000mm,PVC Voltage Rate: CAT III 1000V Current Rate: 10A MAX</p>	<p><b>SD-9903A</b></p> <p>Specification: 1000mm,PVC Voltage Rate: CAT III 1000V Current Rate: 10A MAX</p>	<p><b>SD-9902</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: 150V DC Current Rate: 5A MAX</p>
<p><b>SD-9901</b></p> <p>Specification: 1000mm,PVC Voltage Rate: 150V DC Current Rate: 5A MAX</p>	<p><b>SD-9831</b></p> <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>SD-9830</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>SD-9829</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>
<p><b>SD-9828</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>SD-9826B</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT II 300V Current Rate: 5A</p>	<p><b>SD-9826A</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT II 300V Current Rate: 5A</p>	<p><b>FC-A23C</b></p> <p>Specification: 900mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>

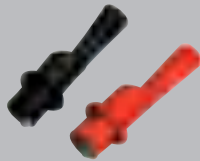
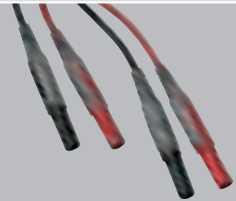


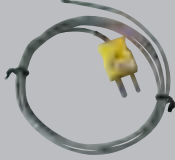

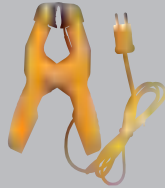
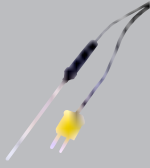
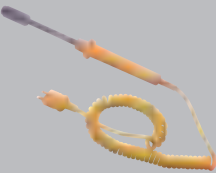
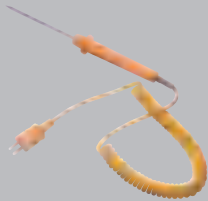



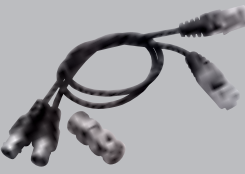






<p><b>FC-A23B</b></p> <p>Specification: 900mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>FC-170A</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>FC-28-A</b></p> <p>Diameter: Φ4mm CAT III 1000V 5A</p>	<p><b>TP-150</b></p>
<p><b>CF-735750</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 16A</p>	<p><b>CF-735680</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>CF-735650-1</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>CF-735420</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 15A MAX</p>
<p><b>CF-735140</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>SC-9905</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>CF-734770-A</b></p> <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>CF-733781</b></p> <p>Specification: 500mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>
<p><b>CF-733760</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 16A</p>	<p><b>CF-732280-A</b></p> <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT II 1000V Current Rate: 8A</p>	<p><b>2K-106</b></p>	<p><b>FC-92</b></p>
<p><b>CF-733783</b></p> <p>Diameter: Φ2mm Voltage Rate: CAT II 300V Current Rate: 3A</p>	<p><b>CF-733784</b></p> <p>Diameter: Φ2mm Voltage Rate: CAT II 300V Current Rate: 3A</p>	<p><b>TP-250</b></p>	<p><b>TP-200</b></p>



<p><b>FC-300</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>CF-735180-1</b></p>  <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V</p>	<p><b>FC-735180</b></p>  <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V</p>	<p><b>CF-734760</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>
<p><b>CF-735000</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>	<p><b>CF-732280</b></p>  <p>Voltage Rate: 30V AC / 60V DC Current Rate: 8A</p>	<p><b>FC-A26</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>	<p><b>CF-734990</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT II 300V Current Rate: 5A</p>
<p><b>MB-1</b></p> 	<p><b>MB-2</b></p> 	<p><b>MB-3</b></p> 	<p><b>MB-8</b></p> 
<p><b>FC-98A</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>TL-88-1</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>TL-88-4</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>TL-99-1</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>
<p><b>FC-96B</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>FC-108</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>FC-138</b></p>  <p>Specification: 1000mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>	<p><b>FC-136</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>

<p><b>FC-49</b></p>  <p>CE UL</p>	<p><b>FC-209D</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>FC-107</b></p>  <p>Specification: 1200mm,PVC Diameter: Φ4mm CAT III 1000V Current Rate: 10A</p>	<p><b>FC-204</b></p> 
<p><b>FC-178A</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V Current Rate: 10A</p>	<p><b>FC-106</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>	<p><b>FC-105A</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>	<p><b>FC-105</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 600V Current Rate: 10A</p>
<p><b>FC-109</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT II 300V Current Rate: 5A</p>	<p><b>FC-210</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>FC-A18</b></p> 	<p><b>FC-A17</b></p> 
<p><b>FC-206</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>FC-28</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT II 1000V Current Rate: 5A</p>	<p><b>FC-A24</b></p> 	<p><b>FC-A23</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>
<p><b>FC-209C</b></p>  <p>Diameter: Φ4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A</p>	<p><b>FC-6R</b></p> 	<p><b>FC-6Y</b></p> 	<p><b>FC-A31</b></p>  <p><b>FC-A12</b></p>  <p><b>FC-A30</b></p> 



<b>FC-A15</b>  Diameter: $\Phi$ 4mm Voltage Rate: CAT III 1000V Current Rate: 10A	<b>FC-209</b>  Diameter: $\Phi$ 4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A	<b>TL-118B</b>  Specification: 1200mm,PVC Diameter: $\Phi$ 4mm Voltage Rate: CAT III 1000V / CAT IV 600V Current Rate: 10A	<b>CP-20</b> 
<b>NR-886B</b> 	<b>TP-300</b> 	<b>TCP-100</b> 	<b>TP-500</b> 
<b>NR-35</b> 	<b>NR-37</b> 	<b>NR-31B</b> 	<b>NR-33</b> 
<b>USB-8852</b> 	<b>BNC-1011</b> 	<b>M-129</b> 	<b>M-125</b> 
<b>TR-1</b> 	<b>SP-1</b> 	<b>SP-2</b> 	<b>SP-3</b> 


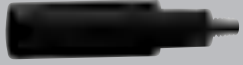




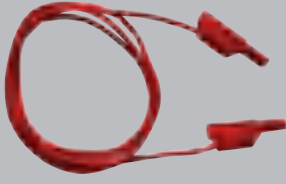













<b>TP-304</b> 	<b>TP-306</b> 	<b>TP-307</b> 	<b>CF-735130</b>  Specification: 1000mm,PVC Diameter: $\Phi$ 4mm Voltage Rate: CAT III 600V Current Rate: 6A
<b>CF-735750</b>  Specification: 1000mm,PVC Diameter: $\Phi$ 4mm Voltage Rate: CAT III 1000V Current Rate: 16A	<b>NR-34A</b> 	<b>NR-34B</b> 	<b>NR-38</b> 
<b>FC-732700</b> 	<b>TL-601</b> 	<b>M-530</b> 	<b>TL-533</b>  Specification: 15300mm,PVC Diameter: $\Phi$ 4mm Voltage Rate: CAT II 300V
<b>TL-905</b>  Diameter: $\Phi$ 4mm Voltage Rate: CAT III 1000V Current Rate: 10A	<b>TL-532</b>  Diameter: $\Phi$ 4mm Voltage Rate: CAT II 300V Current Rate: 5A	<b>TL-531</b> 	<b>TL-534</b> 
<b>TL-650</b> 	<b>TL-605</b> 	<b>PW-110</b> 	<b>SL-852</b> 





<p><b>TL-210</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>	<p><b>TL-A014</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: Hand-held ratings – 30 VAC/60 DVC MAX.Hand free ratings – 2500 working VDC Current Rate: 15A</p>	<p><b>TL-A014-1</b></p>	<p><b>TL-A015-1</b></p>
<p><b>TL-A015</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: Hand-held ratings – 30 VAC/60 DVC MAX.Hand free ratings – 2500 working VDC Current Rate: 15A</p>	<p><b>TL-A016</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 5000 Vrms Max.For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>	<p><b>TL-A017</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 5000 Vrms Max.For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>	<p><b>TL-A024A</b></p> <p>Voltage Rate: 30 VAC/60 VDC Max for hand-held 300 VDC Max for hand free Current Rate: 5A</p>
<p><b>TL-A024B</b></p> <p>Voltage Rate: 30 VAC/60 VDC Max for hand-held 300 VDC Max for hand free Current Rate: 5A</p>	<p><b>TL-213</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 300 Vrms/DC Current Rate: 5A</p>	<p><b>TL-214</b></p> <p>Specification: 50 Ohms for BNC Diameter: BNC Voltage Rate: 300 Vrms</p>	<p><b>TL-B005</b></p> <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: Shield/Earth: 30 VAC / 60 VDC Max Inner conductor/Shield: 500 Vrms Max</p>
<p><b>TL-B006</b></p> <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: Shield/Earth: 30 VAC / 60 VDC Max Inner conductor/ Shield: 500 Vrms Max</p>	<p><b>TL-B007</b></p> <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: Shield/Earth: 30 VAC / 60 VDC Max Inner conductor/ Shield: 500 Vrms Max</p>	<p><b>TL-B008</b></p> <p>Specification: 50 Ohms Diameter: BNC / <math>\Phi</math>4mm Voltage Rate: 500 Vrms Max 30 VAC / 60 VDC Max for hand-held</p>	<p><b>TL-B009</b></p> <p>Specification: 50 Ohms Diameter: BNC / <math>\Phi</math>4mm Voltage Rate: 500 Vrms Max 30 VAC / 60 VDC Max for hand-held</p>
<p><b>TL-B010</b></p> <p>Specification: 50 Ohms Diameter: BNC / <math>\Phi</math>4mm Voltage Rate: 500 Vrms Max 30 VAC / 60 VDC Max for hand-held</p>	<p><b>TL-211</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>	<p><b>TL-212</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>	<p><b>TP-301</b></p>

<p><b>TL-B001</b></p> <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: 500 V CAT I / 150 V CAT II Current Rate: 3A</p>	<p><b>TL-B002</b></p> <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: 500 V CAT I / 150 V CAT II Current Rate: 3A</p>	<p><b>TL-B003</b></p> <p>Diameter: BNC / <math>\Phi</math>4mm Voltage Rate: 500 V CAT I / 150 V CAT II Current Rate: 3A</p>	<p><b>TL-B004</b></p> <p>Diameter: BNC / <math>\Phi</math>4mm Voltage Rate: 500 V CAT I / 150 V CAT II Current Rate: 3A</p>
<p><b>TL-A001</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1500 VRMS per CATII 300V Current Rate: 20A</p>	<p><b>TL-A002</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1500 VRMS per CATII 300V Current Rate: 20A</p>	<p><b>TL-A003</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1000 V CAT III Current Rate: 24A</p>	<p><b>TL-A004</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1000 V CAT III Current Rate: 24A</p>
<p><b>TL-A005</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 600 Vrms For CE compliance: not intended for hand held use at voltage above 33 Vrms / 70 Vdc Current Rate: 20A</p>	<p><b>TL-A006</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 600 Vrms For CE compliance: not intended for hand held use at voltage above 33 Vrms / 70 Vdc Current Rate: 20A</p>	<p><b>TL-A007</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1200 Vrms Max For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>	<p><b>TL-A008</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 1200 Vrms Max For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>
<p><b>TL-207</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>	<p><b>TL-208</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>	<p><b>TL-A009 TL-A010</b></p> <p>Diameter: <math>\Phi</math>2mm Voltage Rate: 33 Vrms or 70 VDC Max Current Rate: 1A</p>	<p><b>TL-A011</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 5000 Vrms Max. For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>
<p><b>TL-A012</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 2500 Vrms Max.For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>	<p><b>TL-A013</b></p> <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 2500 Vrms Max. For CE compliance: not intended for hand-held use at voltage above 33 Vrms / 70 Vdc Current Rate: 15A</p>	<p><b>TL-A025</b></p>	<p><b>TL-209</b></p> <p>Specification: 610mm,PVC Voltage Rate: 300V CAT II Current Rate: 5A</p>



<p><b>TL-B011</b></p>  <p>Specification: 50 Ohms Diameter: BNC Voltage Rate: Shield/Earth: 30 VAC / 60 VDC Max Inner conductor/Shield: 500 Vrms Max</p>	<p><b>TL-A018</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 600 Vrms For CE compliance: not intended for hand held use at voltage above 33 Vrms / 70 Vdc Current Rate: 20A</p>	<p><b>TL-A019</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: 600 Vrms For CE compliance: not intended for hand held use at voltage above 33 Vrms / 70 Vdc Current Rate: 20A</p>	<p><b>TL-A020</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: CAT III 1000 Current Rate: 20A</p>
<p><b>TL-A021</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: CAT III 1000 Current Rate: 20A</p>	<p><b>TL-205</b></p>  <p>Specification: 1200mm Voltage Rate: CAT III 1000 Current Rate: 10A</p>	<p><b>TL-206</b></p>  <p>Specification: 1200mm Voltage Rate: CAT III 1000 Current Rate: 10A</p>	<p><b>TL-217</b></p> 
<p><b>TL-A023</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: CAT III 1000 Current Rate: 10A</p>	<p><b>TL-A022</b></p>  <p>Diameter: <math>\Phi</math>4mm Voltage Rate: CAT III 1000 Current Rate: 10A</p>	<p><b>TP-303</b></p> 	<p><b>TP-305</b></p> 
<p><b>TP-302</b></p> 	<p><b>AT-55</b></p> 	<p><b>TR-73</b></p> 	<p><b>TR-72</b></p> 
<p><b>AD-2</b></p> 	<p><b>HC-6605</b></p> 	<p><b>HC-150</b></p> 	<p><b>HC-8920</b></p> 

<p><b>F-0.2A/250V</b></p> 	<p><b>F-0.5A/250V</b></p> 	<p><b>F-10A/250V</b></p> 	<p><b>F-10A/250V</b></p> 
<p><b>F-500mA/1000V</b></p> 	<p><b>F-10A/1000V</b></p> 	<p><b>F-800mA/600V</b></p> 	<p><b>F-200mA/600V</b></p> 
<p><b>AD-1</b></p> 	<p><b>AD-2</b></p> 	<p><b>C-80</b></p> 	<p><b>C-118</b></p> 
<p><b>C-68</b></p> 	<p><b>C-616</b></p> 	<p><b>HC-8</b></p> 	<p><b>HC-8818</b></p> 
<p><b>HC-8852</b></p> 	<p><b>C-5300</b></p> 	<p><b>C-5500</b></p> 	<p><b>MC-1</b></p> 



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