

## Professional Moisture Content Meter for Wood, wooden Chips, Biofuels, Sawdust, Palm Fibers, Paper

### MC-460 S10/S-10P/S-30/S-40



### APPLICATIONS AND FEATURES

The new MC-460 measures the moisture content level in sawn timber, Biofuels such as Sawdust, Wood Chips, Pellets, Palm Oil Tree residues and also Paper etc. depending on which electrodes or probes are used. With its unique polarisation feature is obtained a quick and stable reading even at high Moisture Content levels.

The MC-460 displays the moisture content level in % H<sub>2</sub>O.

The instrument has six group compensation selection for the most European and Asian wood based on a wood temperature of 20 °C.

### Features

- **Measuring Range 3 - 130% MC (Moisture Content) H<sub>2</sub>O**
- **High accuracy, very fast and stable in low and high MC**
- **More than 200 wood species in each selected language**
- **Easy connection of different electrodes via banana sockets**
- **Alphanumeric Display with backlight**



TECHNICAL SPECIFICATION	MC-460
INTENDED USER	Woodworkers, cabinet and furniture makers, drying kiln personell and quality assurance inspectors. Anyone who needs a quality tool to inspect wood or wood products for accurate moisture content and Biofuels users.
MATERIALS	Wood ( 264 Species) Wood Chips, Pellets, Paper Palm Oil tree residues, Energy Grass/ Elephant Grass
MEASURING PRINCIPLE	Resistance type Detection of resistance changes due to variation of Moisture Content in the material using an electrical signal.
MEASURING RANGE	Wood: 3- 130 % H <sub>2</sub> O
MEASURING ACCURACY	Approximative. ± 0.5% MC
MEASURING GROUPS	6 (264 species)
MEASURING DEPTH	8-200 mm depending on Electrodes
MEASURING VOLUME:	40 cm <sup>3</sup> S-40 Sample Cup
WORKING RANGE (Temp)	-10°C/+60°C
WORKING RANGE (Humidity)	0- 85 % Non condensing
DISPLAY	LCD graphical with back light
RESOLUTION	0,1 %
SENSOR	Pin-type / Electrodes S-10 Standard Probe, S-10P deep measuring Probe S-30 Sliding hammer Prope. S-40 Sample Cup with Compression Clutch
BATTERY	9 V Alcaline battery 6LR21
CASE	Hard case
SIZE (L x H x D )	134 x 72 x 25 mm
WEIGHT (INCL. BATTERY)	160 g (Case 1.5 - 2.2 kg)
WARRANTY	2 years

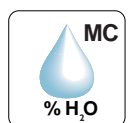
Technical modification reserved.



**S-10**  
Probe for  
general use



**A-1**  
connection cable  
for S-10, S-10P  
and S-30



The MC-460 can be delivered with S-10 Hand Probe plus cable A-1, or...

... a S-30 Sliding Hammer, or a S-40 Sample Cup with compression and cable A-3 or with the S-10P Sword Probe for paper- bales or Palm Oil Tree Fibers etc.



**S-30**  
Sliding Hammer Probe for Sawn Timber and Wood

## Facts

When measuring with an electrical resistance meter a current is flowing into the wood piece. This current is actual ionizing the material that the wood contains of (Cell membrane, water etc.)

As an result the resistance fluctuates giving a fluctuation and drift of Moisture Content readout. On higher Moisture Content levels the accuracy of the measurement depends on how well the user is to make an estimate of average the varying MC value.

*With the new polarization feature the ionizing is avoided so that the MC-460 provides fast and stable measurements to the User.*

### Accessories:

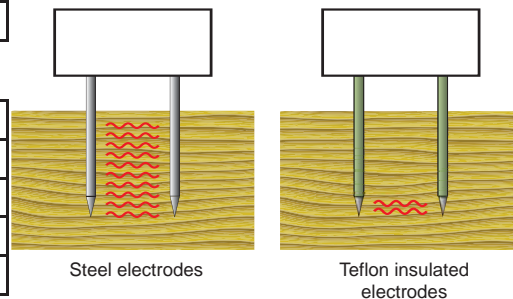
- S-10 Probe,
- S-10P Probe for Paper and Palm Oil Tree Residues
- S-30 Sliding hammer probe
- S-40 Sample Cup for Wood Chips and Sawdust
- Surface Electrodes for Veneer
- Connection Cables A-1 and A-2, 1 m.
- Calibration Block

### Teflon Insulated electrodes

Total Length	Measuring depth
45 mm	30 mm
60 mm	45 mm

### Steel Electrodes

Total Length	Measuring depth
15 mm	12 mm
22 mm	19 mm
30 mm	26 mm
60 mm	56 mm



**S-10P**  
for Paper- /Wastepaper bales, Palm Oil Tree Residues, Chips and Pellets



**S-40**  
Compression cup for Wood Chips, BioFuels Pellets and Sawdust



**A-3**  
connection cable for S-40



## ORDERING INFORMATION

Product	Product No.	Quantity	Unit
MC-460/S-10	135	1	Set
MC-460/S-10P	1020	1	Set
MC-460/S-30	136	1	Set
MC-460/S-40	1010	1	Set
S-10	120	1	Pce
S-10P	1021	1	Pce
S-30	121	1	Pce
S-40	1011	1	Pce
Connection cable A-1	114	1	Pcs
Connection cable A-3	116	1	Pcs
Steel Electrodes 12 mm	122	10	Pairs
Steel Electrodes 19 mm	123	10	Pairs
Steel Electrodes 26 mm	124	10	Pairs
Steel Electrodes 56 mm	125	10	Pairs
Teflon insulated electrodes 30 mm/ 45 mm Total Length	126	5	Pairs
Teflon insulated Electrodes 45 mm / 60 total Length	127	5	Pairs
Surface Electrodes	128	1	Pair
Reference Resistors, High, Low.	420	2	Pcs