

Moisture Meter Type LM08

Operating Instructions

Correct Use:

The electronic moisture meter LM08 is used to determine the moisture in wood within seconds.

Measuring range: 5 - 50 % H₂O

Materials: different kinds of wood

Method of Operation:

The moisture meter operates on the principle of the conductivity determination. The electric conductivity is measured between the electrodes. A micro processor receives the measured signals and determines from the measured value the percentage water content taking into account the set parameters.



Measuring:

- press ON/OFF-button for switching on the Moisture Meter the set wood group and wood temperature is displayed
- press the electrodes (needles) into the wood to be measured
- wait till the displayed value is stable
- read off the moisture value

W1 20°C

W1 20°C
3,8%

Switching off the Moisture Meter:

- press the ON/OFF-button "key" will be displayed
- release the ON/OFF-button, the service address will appear and the instrument will be switched off within a few seconds.
- if there isn't any measuring for 1 minute, the moisture meter will be turned off automatically.

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T:08362 9159 401
www.doser.de

Checking Measuring Quality:

The measured values depend on temperature, wood species, raw density, etc. This needs to be considered while assessing the moisture meter's results.

We recommend carrying out regular periodical controlling check measurements, as different local circumstances might need different material adjustments. (recommendation: controlling measurements by oven drying method ISO 3130-1975)

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Settings:

If the ON/OFF-button is pressed for a few seconds, possible settings will be displayed successively on the screen. The considered menu item will be selected by releasing the button. The selected parameter now can be changed with the button. Through pressing the button for approx. 2 seconds the changed setting will be saved and the instrument will be ready to measure with the changed setting. If the button is not pressed for approx. 5 seconds, the moisture meter will be switched off without saving any changing at the selected menu item.

wood group

The wood group W1 - W4 can be selected. The wood groups with the corresponding wood types are listed at the end of this manual.

wood group

W1

temperature

The wood temperature can be adjusted by pressing the ON/OFF-button, then moisture values will be corrected.

wood temperatur

25°C

input value

with this setting the values which are collected from the microcontroller before calculating the moisture value will be displayed. This values are necessary for making customer specific calibrations. If the menu item will be selected again, the standard moisture measuring will be selected again

input value

68

language

the wished language can be selected.

language

EN

info

The type and the software version will be displayed for 2 seconds.

LM08

20121212

switch off

the instrument will be switched off, an info text will be displayed for a few seconds.

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Safety Tips:

- follow the operating instructions
- only use the meter as directed (see page 1)
- keep the meter away from live and current electrical parts
- avoid impacts
- protect the meter from heat
- keep the meter dry and try to prevent dirt from entering the case
- protect the meter from electrostatic discharge.
- the meter must be repaired or serviced only by qualified specialists



Damages caused by failure to follow the above Safety Tips are not covered by the warranty !

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Replacement of the measuring pins:

For changing of the measuring pins the clamping nuts must be loosen with a 7mm jaw wrench. Then the pins can be replaced, the clamping nuts then must be tightened.

There are different measuring pins available:

Pin 30: sharp pins, 30mm length, Ø1,5mm, tapering, stainless spring steel verjüngt.

Pin 50: Ø3mm, length 50mm, sharp top, stainless steel

Pin 50I: Teflon isolated, Ø2mm, tapering, length 50mm, sharp top, stainless spring steel

Pin D3x200: rounded top, Ø 3 mm, length 200 mm for wooden fibre boards or for moisture detection in drilled holes

Pin 06x200: spring strip steel 200 x 6 x 0,5 mm, for moisture detection in narrow openings



Battery

The instrument works with a standard 9V Block. If the battery is weak, "BAT" will be shown in the display during the measurements.

Change battery!

- open the battery box, move the battery lid in arrow direction
- take out the old battery
- insert new battery, **observing the correct polarity !**
- close the battery box

Attention!

In accordance with battery legislation, all used batteries must be disposed off in special battery collecting bins.

The disposal of old or used batteries as part of normal waste is not allowed!

Our operating instructions are intended for guidance and to provide information on our products and their uses. They should not be taken to imply special characteristics or suitability for any specific purpose, other than those stated.

We constantly work to improve our products and reserve the right to alter our products and operating instructions without advanced notification.

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wood list:

Abachi	2
Maple	3
Aspen	3
Alder	3
Asch	3
Basswood	2
Beech, red	2
Beech, white	3
Birch	3
Cherry tree	3
Elm	3
Fir	4
Lauan	3
Larch	3
Limba	3
Lime	2
Mahagoni	4
Meranti	4
Oak	3
particle board	2
Pine	3
Poplar	2
Samba	2
Sipo	4
Teak	2
Walnut	3
Wenge	2
wood fibre board	3