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Manual

MOISTURE METER PCE-333



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1. MOISTURE METER FOR WOOD AND BUILDING MATERIAL

Used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). It displays the moisture level in the material straightaway.

Technical data

Measuring principle:	Electrical resistance
Electrode length:	8 mm
Electrodes:	Integrated, replaceable
Measuring range:	Wood: 6 – 44 % Material: 0.2 – 2.0 %
Display	Wood: ±1 %
Accuracy:	Material: ±0.05 %
Auto power OFF	After approx. 15 minutes
Battery:	3 × Cr 2032, replaceable
Housing material:	Impact-proof plastic housing
Ambient temperature:	0 - 40°C
Ambient Relative humidity:	0 – 85 %RH
Dimensions:	130x40x25 mm
Weight:	100g
Warranty:	1 year

2. MAINTENANCE

- Always keep instrument dry.
- Prevent dirt from getting in between the measuring electrodes
- Changing the electrodes:
Unscrew the 5 screws at the back of the instruments.
Remove housing lid. Unscrew all 5 screws on the electronic plate. Replace electrodes.
Close instrument again.

3. FUNCTION CHECK

“O-----T-----O”

Connect electrodes with **T** contacts to the protective cap.

Reference display for wood: 27%±2%
Reference display for building material: 1.25%±0.1%
Function error: Send instrument for servicing.

4. APPLICATION

- Remove the cap from the top side and place on the bottom side
The instrument switches on automatically.
- Press the measuring electrodes as far as possible into the material.
- Always measure the moisture in the wood perpendicular to the fibre structure.
- Repeated measuring yields representative measured data.
- Once the measurement is finished, reattach the cap on the top side and the instrument switches itself off.

5. DISPLAY

The reading is shown in the form of bars:

a continuous line

= even values e.g. 6, 8, 14

dotted line

= uneven values e.g. 7, 11

Overflow: reading 44%/2.0%

Please note: Characteristics due to growth or type of wood and deviating wood temperatures may make it necessary to correct the displayed values. Measurements should be carried out according to the drying and weighing/calcium carbide method in the case of inspections or for reference purposes.

Automatic Power OFF

In order to conserve battery life, the meter will automatically turn off after approximately 15 minutes. To press and restoration the power switches the meter display is on.

Battery check

“ O..... B.....O”

Connect electrodes with **B** contacts to the protective cap.

Reference display for wood: 44%


Reference display for building material: 2.05%

Display has to full.

6. CHANGING THE BATTERY

When the batteries become exhausted or drop below the operating voltage, the battery warning “ “ symbol will appear in the LCD display. The battery should be replaced.

Unscrew the 1 screws at the back of the instrument.

Remove the battery housing. Change battery.  **Observe polarization!** Reconnect instrument.

In this direction will find a vision of the measurement technique:

<http://www.industrial-needs.com/measuring-instruments.htm>

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."