EMC&LVD

Inductive Wood Moisture Meter

User Manual

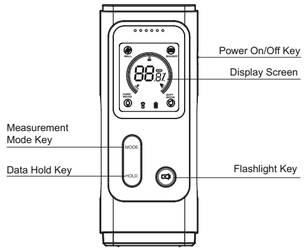


EN-00301-01

Please read this manual carefully before using the meter and keep it properly for future reference.

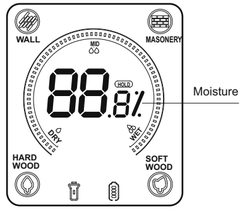
Introduction

This instrument is an inductive wood moisture meter featuring high-precision, non-destructive measurement technology. Non-destructive measurement allows easy measurement of moisture content without damaging the material. It includes four measurement modes: softwood, hardwood, plaster wall, and masonry, making it suitable for moisture detection in wood processing, furniture manufacturing, warehouse inspection, and acceptance.



Display

Display symbols	Description	Display symbols	Description
	Hardwood	HOLD	Data Hold
	Softwood		Battery level
	Plaster wall		Flashlight
	Masonry	DRY	Dry
MID	Medium	WET	Wet



Operation

A. Precautions

1. This meter is a high-impedance precision instrument. Keep it dry, clean, and dust-free during storage, and take proper moisture-proof and dust-proof measures.
2. When not in use, place it in a stable location away from light, avoiding direct sunlight.
3. Always remove the batteries before long-term storage.

B. Measurement

1. Power On: Press the Power On/Off Key on the right side of the meter. After startup, the meter will automatically enter the measurement mode and display the reading.
2. Press the "MODE" key to switch between the four measurement modes: softwood, hardwood, plaster wall, and masonry. Select the appropriate measurement mode for your material.
3. Place the detection surface firmly against the material surface and read the value after the reading stabilizes.
4. Power Off: Press and hold the Power On/Off Key on the right side to turn off the meter.

C. Measurement Reminders

During measurement, the material must be at least 19 mm thick, which is the minimum thickness required by the instrument for accurate measurement.

If the material is too thin, the meter may detect the underlying surface, resulting in inaccurate readings. the meter may inadvertently detect other underlying materials, resulting in inaccurate readings. The length and width of the measured material should be larger than the meter's sensing area.

D. Data Hold

Press the HOLD key once to activate the data hold function. Press the HOLD Key again to deactivate the function and return to normal measurement mode.

E. Auto Power-Off Function

The meter will automatically turn off after 10 minutes of inactivity.

F. Flashlight Operation

Press the flashlight key " " to turn on the flashlight on the back of the meter.
Press it again to turn off the flashlight.

G. Moisture Alarm Function (LCD Display)

- The LCD screen displays the type of material being measured. The circular LED indicator color changes according to the moisture content:
  1. green light indicates low moisture content;
  2. red light indicates high moisture content;
  3. yellow light indicates medium moisture content.
- When the moisture content is at a moderate or wet level, the meter will emit an audible buzzer alarm.

Moisture Alarm Reference Table				
Medium Level	Plaster Wall	Masonry	Softwood	Hardwood
Dry DRY	<8%	<13%	<20%	<12%
Moderate MID	8%-12%	13%-21%	20%-26%	12%-16%
Wet WET	>12%	>21%	>26%	>16%

H. Technical Specifications

Measurement Range	Plaster Wall & Masonry: 5% ~70% Softwood & Hardwood: 5% ~ 75%
Measurement Accuracy	±4%
Max. Sensing Depth	19 mm
Sensor Size	40 × 40 mm
Operating Environment	0°C~40°C（32°F~104°F） @5-95%RH
Storage Environment	-10°C ~ 50°C (14°F ~ 122°F)
Power Supply	3 × 1.5V AAA alkaline batteries

I. Material Reference Table

Type	Examples
Softwood	Chinese Fir, Pine, Cedar, Spruce Fir, Hemlock
Hardwood	Teak, Walnut, Rubberwood, Cherry, Poplar, Beech
Plaster Wall	Lime Wall, Earth Wall, Cement Wall, Roof
Masonry	Brick Wall, Stone Wall, Floor

Maintenance

A. Replace Battery

Replace the batteries promptly when the " "appears on the display.

1. Open the battery compartment cover of the meter.
2. Remove the old batteries.
3. Insert the new batteries according to the "+/-" polarity markings inside the battery compartment.
4. Ensure that the batteries are installed correctly, then close the battery cover securely.

B. Meter Cleaning

CAUTION

- Do not use corrosive agents or solvents to clean the meter, as this may cause damage.
- Clean the instrument regularly with a soft cloth slightly dampened with mild detergent or a dedicated cleaning solution.