

User Manual V1.0.7

Wood Moisture Meter

1. Description

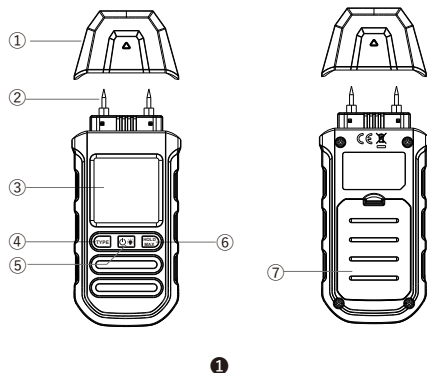
The instrument is suitable for measuring the moisture content of wood, paper, paperboard, powder wall, floor and other materials.

Before using the instrument, please read this manual carefully.

2. Features

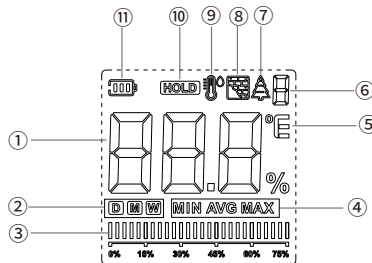
- 7 measurement modes
- Measured value lock
- High sensitivity probe
- Temperature and humidity measurement
- Button beeping notification
- Automatic shutdown function

3. View



- ① Probe protection cover
- ② Probe
- ③ LCD screen
- ④ TYPE button
- ⑤ $\odot$ button
- ⑥ HOLD/MAX button
- ⑦ Battery compartment

4. LCD



- ① Measurement reading
- ② Moisture content indication
(D: dry; M: moderate; W: wet)
- ③ Simulation of moisture content determination
- ④ Maximum/minimum/average measurement mode
- ⑤ Temperature unit
- ⑥ Material type serial number (1~7); Temperature and humidity channel number (1~3)
- ⑦ Wood test mode
- ⑧ Test mode of building materials
- ⑨ Temperature and humidity measurement mode
- ⑩ Measured value lock
- ⑪ Power indicator

5. Specification

Measuring Range	Moisture content: 0.0~58.0%; Temperature: -20.0~60.0°C (-4.0~140.0°F); Humidity: 0~99%RH
Accuracy	Moisture content: $\pm 2.0\%$; Temperature: $\pm 1.0^{\circ}\text{C}$; Humidity: $\pm 5.0\%$ RH
Resolution	Moisture content: 0.1%; Temperature: 0.1°C; Humidity: 1%RH
Automatic Shut-down	5 minutes
Operating Temperature	-10~50°C
Storage Temperature	-10~60°C (Without batteries)
Power Supply	3 pcs 1.5V AAA dry cell batteries
Size of probe	$\Phi 2 \times 10\text{mm}$
Size of Device	135*57*30mm
Material	ABS

6. Battery Installation

- (1) Insert the battery according to the positive and negative instructions inside the battery compartment.
- (2) After inserting the battery, fasten the battery cover.
- (3) When the instrument is not used for a long time, be sure to remove the battery and place it properly.

7. Usage

7.1 Measurement Steps

Step 1: Prepare the material to be tested.

Step 2: Open the probe protection cover of the instrument and press the button to turn it on.

Step 3: After selecting the appropriate material category, insert the instrument probe into the test material with a depth of at least 3mm.

Note: The two probes must be inserted into the material at the same time during measurement, and the probes should be in full contact with the material.

7.2 Turn On/Off

Power on: Press the " $\odot$ " button to power on.

Shut down: In the power-on state, long press the “☀” button to shut down, or if there is no key operation for 5 minutes, the instrument will automatically shut down.

7.3 Red, Yellow, and Green Backlight

In the power-on state, short press the “☀” button to turn on or off the backlight. When the backlight is on, the instrument automatically matches the appropriate backlight color based on the moisture content, which is categorized into three levels: Low, moderate, and high.

- Red backlight: High moisture content, showing the letter W.
- Yellow backlight: Moderate moisture content, showing the letter M.
- Green backlight: Low moisture content, showing the letter D.

The moisture content levels correspond to the red, yellow, and green indicators of different materials, as shown in the table below:

Backlight color	Moisture content range	Material type
Red	≥24%	1
Yellow	15%~24%	
Green	<15%	
Red	≥22%	2
Yellow	14%~22%	
Green	<14%	
Red	≥4%	3
Yellow	2%~4%	
Green	<2%	
Red	≥2%	4
Yellow	1%~2%	
Green	<1%	

Backlight color	Moisture content range	Material type
Red	≥3%	5
Yellow	2%~3%	
Green	<2%	
Red	≥2%	6
Yellow	1%~2%	
Green	<1%	
Red	≥3%	7
Yellow	1%~3%	
Green	<1%	

7.4 Gear Shift

In the power-on state, short press the “TYPE” button to switch material type. The instrument offers 7 material to choose from. Please refer to the Material Correspondence Table for selection.

7.5 Temperature and Humidity Measurement Mode

Press and hold the “TYPE” key to end Material 7, then switch to temperature and humidity measurement mode. Setting 1 measures in Celsius, setting 2 in Fahrenheit, and setting 3 in humidity.

Note: The “HOLD/MAX” button is inactive in this mode.

7.6 Measured Value Lock

In the power-on state, short press the “HOLD/MAX” key to trigger the data hold function, the measured value on the screen will be locked and the “**HOLD**” icon will be displayed. Short press the “HOLD/MAX” key again to cancel the value lock.

7.7 Maximum, Minimum, and Average Measurement Mode

In the power-on state, long press the “HOLD/MAX” key to enter the maximum value measurement mode, and the “MAX” icon is displayed on the screen. Note that the instrument will continue to measure at this time, and the

maximum value will change according to the real-time measurement result. Long press the “HOLD/MAX” button to switch between average and minimum measurement modes. To exit the minimum measurement mode, long press the “HOLD/MAX” button again.

8. Notes

- (1) When the battery icon on the screen flashes with a , it indicates low battery level. Replace the battery promptly to avoid affecting the instrument's normal operation.
- (2) Please place it out of the reach of children, beware of children playing.
- (3) The instrument is equipped with a sharp probe, please pay attention to safety when using it to prevent injury.
- (4) When storing the instrument, pay attention to dust and moisture, and keep the instrument dry and clean to ensure the accuracy of the measurement data.
- (5) When the temperature of the instrument body differs greatly from the measured object or the ambient temperature, please place the instrument at the same ambient temperature as the measured object before use, wait for the temperature to equalize, and then start measuring.

9. Material Comparison Table

Material 1	Beech, spruce, larch, birch, cherry, walnut: 8.8~54.8%
Material 2	Oak, pine, maple, ash, Douglas fir, Eucalyptus: 6.8~47.9%
Material 3	Cement mortar layer, concrete: 0.9~22.1%
Material 4	Anhydrous gypsum mortar layer: 0.0~11.0%
Material 5	Cement mortar: 0.7~8.6%
Material 6	Lime mortar, gypsum: 0.6~9.9%
Material 7	Brick: 0.0~16.5%