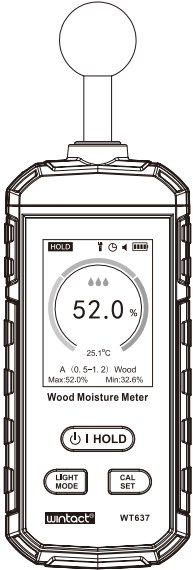


Wood Moisture Meter Instruction Manual



Version: WT637-EN-01

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A. Introduction

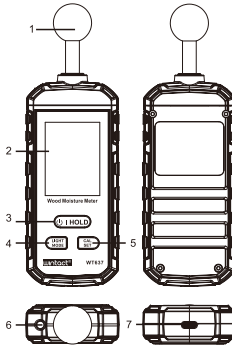
The Wood Moisture Meter precision moisture detector uses cutting-edge single-chip core technology to ensure highly accurate test data, easy operation, intuitive readings, and precise moisture measurement. Its stylish design and portability make it an ideal choice for measuring the moisture content of wood, bamboo, paper, and Chinese medicinal materials in a variety of environments.

B. Feature

1. Three-color ring alarm
2. With reading lock/unlock function
3. Zero calibration
4. Flashlight
5. Maximum/Minimum value
6. Automatic/manual shutdown
7. 1000mAh lithium battery power supply
8. Buzzer alarm
9. 2.4-inch Color Screen
10. Measurement environment temperature

C. Name of parts

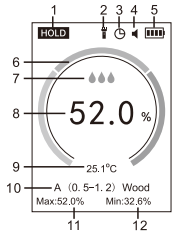
1. Moisture Sensor
2. LCD Display
3. **HOLD** Button: Power on/off, short press to lock/unlock data on the measurement interface.
4. **LIGHT/MODE** button: Short press to turn on/off the auto-shutdown function on the zero-calibration interface; short press to turn on/off the flashlight on the measurement interface, long press to switch gears.
5. **CAL/SET** button: Short press the **CAL/SET** button to calibrate the zero point on the zero-calibration interface; short press to turn on/off the sound on the measurement interface, long press to switch temperature units.
6. Flashlight
7. Type-C charging port



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D. LCD display

1. HOLD: Data lock
2. Flashlight on symbol
3. Automatic shutdown on symbol
4. Buzzer alarm on symbol
5. Battery level
6. Three-color ring alarm
7. Water Drop Prompt
8. Measured value
9. Temperature value
10. Gear, material density (g/cm³) typical materials
11. Maximum value
12. Minimum value



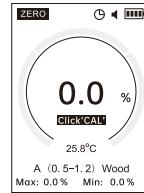
E. Operation instruction

1. Power on/off:
 - 1) When the power is off, short press **HOLD** button to turn on.
 - 2) When the power is on, long press **HOLD** button to turn off.
 - 3) Automatic shutdown: After power - on, on the zero calibration interface, briefly press the **LIGHT/MODE** button. LCD display **⏻**. After the automatic shutdown is enabled, if there is no key operation within 15 minutes, it will automatically shut down.
2. Measurement:

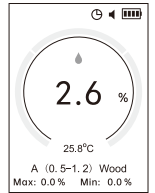
On the measurement interface, after selecting the appropriate gear, touch the instrument probe to the surface of the measured object, and the instrument will display the real-time measured value.
3. Data HOLD:

After power on, short press **HOLD** button, LCD display HOLD data lock. Short press **HOLD** button again to release the data (HOLD is not displayed). Note: After locking the data, the maximum/minimum values will be updated based on the locked value. For example, if the data is locked at 10%, the maximum and minimum values will be updated based on 10% after unlocking.
4. Zero calibration:

Each time the device is turned on, it will first enter the zero-calibration interface. On the zero-calibration interface, keep the instrument in an open area (away from power sources, do not touch the sensor with hands), click the **CAL/SET** button to calibrate the zero point. After zero calibration is completed, it will enter the measurement interface for measurement, and the value displayed on the screen should be less than 0.3% at this time.



校准界面



测量界面

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5. Alarm:

- 1) After power-on calibration, short press the **CAL/SET** button, the LCD displays **⚡** to turn on the buzzer alarm; short press the **CAL/SET** button again to turn off the buzzer alarm and **⚡** will not be displayed.
- 2) When the measured value reaches the medium/high level, the three-color ring displays the corresponding orange/red color, and the buzzer emits a beeping prompt sound.

6. Gear switching:

On the measurement interface, long press the **LIGHT/MODE** button to switch gears, there are four gears A, B, C and D in total. To obtain better measurement results, different gears can be selected according to the material to be measured before measurement.

Material Properties Reference Table

Grade A (MATERIAL DENSITY RANGE 0.5~1.2G/CM³)			
Wood beams	Wooden floors	Solid wood furniture	Aerated concrete
Grade B (MATERIAL DENSITY RANGE 1.2~1.8G/CM³)			
Putty	Plastering gypsum	Clay bricks	Lightweight gray sand bricks
Grade C (MATERIAL DENSITY RANGE 1.8~2.4G/CM³)			
Concrete	Cement mortar	Tiles	Shale bricks
Grade D (MATERIAL DENSITY RANGE 2.4~3.0G/CM³)			
Granite	Marble	Pebbles	Reinforced concrete and so on

Humidity Level Reference Table

Humidity Level	Grade A(0%~52%)	Grade B(0%~39%)	Grade C(0%~28%)	Grade D(0%~19%)
Low	<12%	<10%	<8%	<6%
Medium	12%~24%	10%~20%	8%~16%	6%~12%
High	>24%	>20%	>16%	>12%

7. Temperature unit

After startup and calibration, long press **CAL/SET** button to switch °C/°F.

8. Battery maintenance

When the battery power is displayed **⚡**, it indicates that the power is insufficient, which will affect the measurement result. Please charge it in time.

9. Flashlight

After power on, short press **LIGHT/MODE** button, and the LCD will display turn on the flashlight. Short press **LIGHT/MODE** button again to turn off the flashlight (**💡** is not displayed).

Some precautions:

1. At zero, keep the instrument at least 10CM away from any object.

2. Influence of materials:

An increase in soluble salts in the material will affect the measurement result, making the displayed measured value higher.

The material should preferably be uniform and free of any air pockets.

3. Influence of conductive substances and electric fields:

Under optimal conditions, there should be no electric field or conductive medium in the measured material. If the material contains conductive substances, the measured value will be high;

The material contains metal (nails, screws, etc.) and is located in the sensor measurement area, the measured value will be high;

4. Influence of moisture distribution:

If the material is too thin, the humidity of adjacent material layers will affect the measurement result. It is recommended to stack the same material to a thickness greater than 2CM for measurement; under optimal conditions, the moisture should be evenly distributed in the material.

F. Technical Parameters

Measurement Range	Grade A: Material density (0.5~1.2g/cm ³) 0~52%
	Grade B: Material density (1.2~1.8g/cm ³) 0~39%
	Grade C: Material density (1.8~2.4g/cm ³) 0~28%
	Grade D: Material density (2.4~3.0g/cm ³) 0~19%
Detection Depth	5~40mm
Measurement Accuracy	±2.5%RH(25°C Normal Temperature Environment)
Temperature Measurement Range	-10~60°C (14~140°F), out of range display -10°C or 60°C
Power Supply	1000mAh 3.7V Li-Ion Battery
Display	2.4-inch Color Screen
Operating Temperature	0~45°C (32~113°F)
Operating Humidity	0~75%RH
Storage Temperature	-20~70°C (-4~158°F)
Automatic shutdown	No Operation For About 15 Minutes
Size	185*61*25.2mm
Weight	160.5g

Specific Declarations:

Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence.

We reserves the right to modify product design and specification without notice.

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