

883C

Wood/Building Material

MOISTURE METER

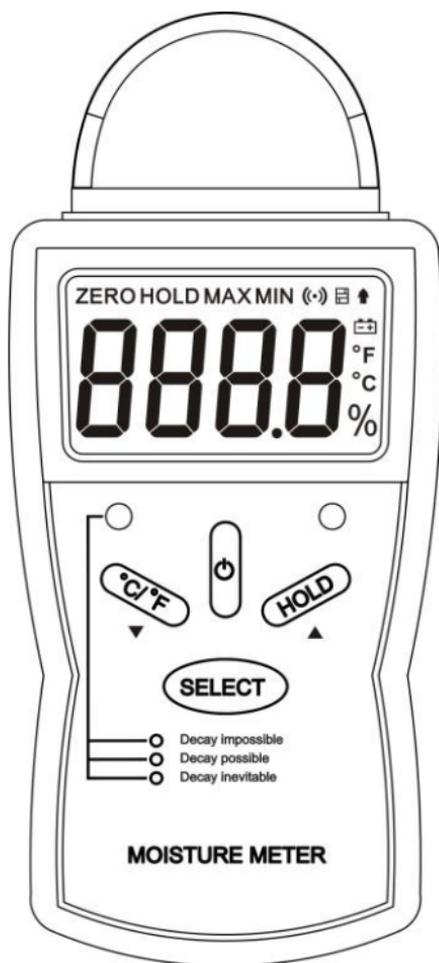


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➤ INTRODUCTION

This instrument can be used to measure the moisture level in sawn timber (also paper, cardboard) and hardened materials (mortar, concrete and plaster). It displays the moisture level directly. In addition, it can also measure environment temperature. It is portable and very easy to use.

➤ SPECIFICATION

Display: LCD

Measurement Range: Wood: 6~42%

Material: 0.2~2.0%

Temperature: 0~40°C , or 32~99°F

Resolution: Wood: 1%

Material: 0.1%

Temperature: 1°C/2°F

Accuracy: Wood: reading < 30%: ± 2%

reading $\geq 30\%$: $\pm 4\%$

Material: reading $< 1.4\%$: $\pm 0.1\%$

reading: $\geq 1.4\% \pm 0.2\%$

Temperature: not specified

Low Battery Indication: Symbol “” shown on the display

Automatic Power-Off

Battery: 9V Zinc-carbon battery

Operating Environment: Temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

Relative humidity: $< 85\%$

Storage Environment: Temperature: $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$

Relative humidity: $< 85\%$

Size: $80 * 40 * 20\text{mm}$

Weight: about 150g (including batteries)

➤ LCD EXPLANATION



Symbol Meanings:

“” ---- Batteries are low and should be replaced

“”----Wood moisture measurement mode is selected. In this mode, you can measure the moisture level of sawn timber, paper or cardboard.

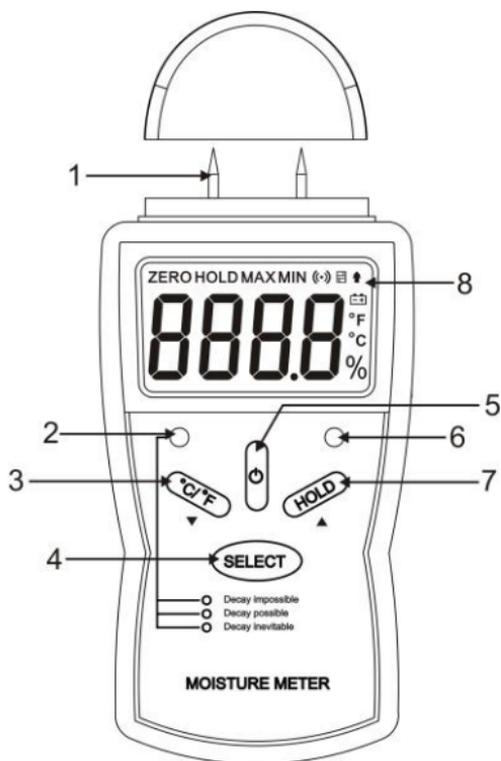
“”-----Material moisture measurement mode is selected. In this mode, you can measure the moisture level of hardened material (mortar concrete or plaster).

“%” ----Percent (moisture unit)

“°C” ----Celsius degree

“°F” ---Fahrenheit degree

➤ FACEPLATE INSTRUCTION



1. Probe

2. Indicator for moisture

3. Degrees or Fahrenheit select key
4. Wood moisture or Material moisture select key, Reduction of the value when set the warning value
5. Power
6. Auto backlight sensor
7. Data Hold; Add the value when set the warning value
8. LCD

➤ **OPERATION INSTRUCTION**

1. Press Power to power on the device.
2. Selecting Desired Measurement Mode
 - a. After the instrument has been turned on.press the “SELECT” button to select Wood moisture measurement mode or Material moisture measurement mode .
 - b. Press the “°C/°F” button to select Celsius degree measurement mode or Fahrenheit degree measurement mode .

➤ **Performing Measurement**

- a. For temperature measurements, the display shows the present environment temperature directly.
- b. For moisture measurements, Take off probe shield and press the pins of two sides with fingers , Insert the pins into the object approx. 5mm, which display the containing water of the object.

➤ **Automatic Power-Off Feature**

If you don't operate the instrument (or the reading does not change) for about 5 minutes, the instrument will turn off automatically.

➤ **Data Hold**

- a. Only the moisture measurement status, press the HOLD key to lock the measured values
- b. For temperature measurements, press the HOLD key to be useless.

➤ **LED indications for moisture and related settings**

- a. This apparatus can indicate the moisture of the objects to be measured through the lighting of the color LED.

There are two values for controlling the warning of LED light, namely AL1 and AL2. The factory defaults of wood moisture are: AL1=13, AL2=18, and for Material moisture, they are: AL1=0.3, AL2=0.8, If the measured value is less than 13, the green indicator will be turned on. If it is higher than 18, the red indicator will be turned on. If it is between 13 and 18, the yellow indicator will be turned on. The user can set these two values in light of his own conditions

b. Set the warning value

(1) To set the value of AL1, press the "SELECT" button and hold it till "AL1" appears(it takes about 3 seconds), The use "hold ▲" or "°C/°F ▼" to change the number to the value you desire. To exit the setting mode,press "select" again.

(2) To set the value of AL2, press the "SELECT" button and hold it till "AL2" appears(it takes about 5 seconds), to change the number, Ditto operation.

➤ **NOTE**

1. Keep the instrument dry.
2. Keep the probe clean.
3. Keep the instrument and battery out of reach of infant and child.
4. Some factors (such as material type and temperature can affect moisture measurement result and may make it necessary to correct the displayed value. Don't use the instrument in the case of inspections or for reference purposes.
5. When the symbol “” appears, the batteries are low and should be replaced.

Ensure that battery polarity connections are correct when replacing batteries.

If you will not use the instrument for a long period, remove the batteries.



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