

# Moisture Tester



Operation Manual



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## 1. Preface

Please read the following information carefully before using the meter. The Moisture tester has been designed to measure the material moisture, air temperature. Commonly used to measure the moisture contents in wood and building materials, and the air temperature.

## 2. Safety information



**Message: Warning**



**According to European Union's CE safety norms.**



**Be careful! To avoid probes hurting your body, when do not use, please cover the protection cap.**

Please use it according to the following condition.

Environment conditions:

- Protection class: IP20.
- Ambient temperature: -10~ +50°C、+14~ +122°F
- Storage and transport temperature: -4 0~+70°C

#### Maintenance & Save:

Do not clear the meter using alcohol and impregnant. If you do not use it for a long time, please take out the batteries and place the instrument in a dry surrounding.

### **3. Functions & Features**

- Material humidity / Air temperature measurement
- Manual material selection
- Automatic range
- Celsius/Fahrenheit selection
- LCD backlight
- Automatic shutdown / Continuous working mode
- Low battery voltage indication.
- Software calibrating to insure high reliability
- Good circuit designed to save power.

### **4. Specifications**

- The meter has been designed according to EMC directive: 2004/108/EC.
- Parameters: % material moisture contents, temperature °C, °F

- Accuracy: Conductivity measurement:  $\pm 2\%$   
Temperature:  $\pm 1^{\circ}\text{C}$
- Resolution: 0.1%,  $0.1^{\circ}\text{C}$ ,  $0.1^{\circ}\text{F}$
- Measurement range:  $0.0\% \sim 95.7\%$ ,  $-10 \sim +50^{\circ}\text{C}$
- Digital display: 3 digits.
- Measurement selection:
  - Material 1: 8.9~95.7%
  - Material 2: 7.1~80.0%
  - Material 3: 1.0~2.5%
  - Material 4: 0.0~3.3%
  - Material 5: 0.7~3.8%
  - Material 6: 0.5~7.4%
  - Material 7: 0.0~23.4%
- Measurement rate: Moisture 1s,  
Temperature 125 ms.
- Power supply: DC1.5V (AAA) \*3.
- Operating temperature :  $-10 \sim +50^{\circ}\text{C}$ .
- Storage temperature:  $-40 \sim +70^{\circ}\text{C}$ ,  $-40 \sim +158^{\circ}\text{F}$ .
- Dimensions: 121(L) $\times$ 60(W) $\times$ 30(H)mm.
- Weight : Approx 180g (including battery).
- Accessories: Operating manual, Batteries.

## 5. Mounting battery

Remove the battery cover on the back and put in three new 1.5V batteries (AAA) according to the mark on the shell to insure putting batteries in correctly, and then close the battery cover.

## 6. The method of usage

6.1 Press button "**On/Off**", the meter selects material 1 and starts auto-range measuring. Symbol **LO** displays when probes dose not contact any material.

6.2 To select measured material

Press button "**Select**" to choose a material you will measure. A number is displayed on the bottom of the screen to indicate a material. The numbers correspond to the materials listed in table (1). Insert two probes into material, the meter will automatically change range according to moisture value of material, then indicates the relative value of humidity. If the moisture content is higher than the measuring range of the meter, it will show symbol **HI**.

No.	Material
1	Hard wood such as Beech, Spruce, Larch, Birch, Cherry, Walnut and so on.
2	Soft wood such as Oak, Pine, Maple, Ash-tree, Douglas fir, Meranti and etc.
3	Cement or Concrete plane, Plaster produce.
4	Anhydrite plane
5	Cement mortar
6	Lime mortar
7	Bricks

Table (1)

6.3 If it is dark, Press “**Backlight**” button to light LCD.

Click the button again to turn off it, or shut down automatically after 10 seconds.

6.4 Press °C / °F key to convert the unit of temperature displayed.

6.5 To set power off:

When meter is working, pressing button **On/Off** will get shutdown immediately.

6.6 Automatic shutdown

If no button is pressed for 10 minutes, shutdown will



occur automatically to save power.

#### 6.7 Continuous working mode

When you need to measure continuously, should cancel automatic shutdown function. To get that, before meter starts working, press button °C / °F and button **On/Off** at the same time, automatic shutdown will not occur.

#### 6.8 Low voltage indication

When battery voltage is too low to work, a battery symbol appears on the screen. It reminds you to change new batteries.

### 7. Calibrating Moisture Tester

When meter is used for a long time, the accuracy may reduce, you need to check and calibrate it. Please contact with us about the method.

### 8. Cautious

8.1 Do not use the meter in a high temperature or wet place.

8.2 When you do not use the meter for a long time, please take out batteries to avoid damaging the

meter by electrolyte.

- 8.3 Please select several places to repeated measure.  
When measuring wood, the probes must insert into it.  
When measuring hard material such as concrete or brick, force would be not too big to avoid damaging probes.
- 8.4 If battery symbol is on the screen, it indicates voltage is low and must replace batteries. Suggest you to use alkaline battery.
- 8.5 After power off, to turn power on again, wait for two seconds.