

ennoLogic

eH710T Moisture Meter

User Manual



Moisture Meter ennoLogic eH710T

Made in China

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<https://ennologic.com>

Table of Contents

1. Overview.....	1
1.1 Important Safety Considerations – Please Read....	1
1.2 LCD Display	2
1.3 Keypad	2
1.4 Battery Installation or Replacement.....	3
1.5 How to Use Your Moisture Meter	3
Power On/Off.....	3
Backlight.....	3
Taking a Measurement	3
Hold and Max / Min Value Display	5
Temperature Unit Selection and Self Check.....	6
2. SPECIFICATIONS	7
2.1 Parameters measured	7
2.2 Moisture measuring ranges for various materials	7
2.3 Technical Specifications.....	8
2.4 Maintenance	8

1. Overview

Thank you for purchasing the ennoLogic eH710T moisture meter. This meter is a professional moisture meter that measures the water content of wood and building materials. It also measures air temperature. Please read the instructions in this manual carefully before using the moisture meter.

1.1 Important Safety Considerations – Please Read

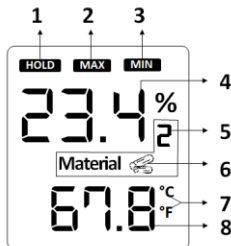


Please read these safety instructions and this user manual before using this instrument for the first time!

1. Only use the instrument for its intended purpose and within the parameters listed in the specifications section.
2. When using the meter, follow the operating instructions described in this manual.
3. Never use excessive force when using the meter.
4. Never store the meter together with solvents, acids or other corrosive substances.

1.2 LCD Display

- 1 - Hold indicator
- 2 - Max indicator
- 3 - Min indicator
- 4 - Moisture value
- 5 - Selected material indicator
- 6 - Wood or building material symbol
- 7 - Air temperature unit
- 8 - Air temperature value




1.3 Keypad

- 1 - Power button
- 2 - Mode button
- 3 - Arrow button
- 4 - Backlight button



1.4 Battery Installation or Replacement

Open the battery cover on the back of the instrument and install three 1.5V AAA batteries according to polarity indicators (alkaline batteries are recommended). Please replace the batteries when the low battery symbol  appears.

1.5 How to Use Your Moisture Meter

Power On/Off

To turn the moisture meter on press the power button briefly, press it again to turn it off. The unit shuts off automatically after 10 minutes without use.



Backlight

To turn on the backlight on press the backlight button briefly. Press it again to turn it off.

Taking a Measurement

1. Turn the meter on by pressing the power button. The meter is now in measuring mode. You will notice that the display shows “Lo” as the pins of the meter are not yet in contact with a material. To increase readability of the

display, you may want to turn on the backlight by pressing the backlight button.

2. Choose your material setting with the arrow button. Press this button briefly multiple times to move through settings 1-7. The material number will be displayed along with one of two material symbols:  (wood) or  (building material). Each material setting number represents a range of materials with similar characteristics with respect to moisture measurement. Please refer to the material table in the Specifications section to select the correct material setting. Choose material setting "1" if the material is unknown.

3. Remove the protective cap. Hold the meter so that your fingers or any other interference source do not come into contact with the pins. Gently press the two pins against the material you want to measure.

You only need to make good electrical contact with the surface of the material. It is not necessary to push the pins deep into the material to take an accurate measurement. However, pushing the pins into a softer or porous material such as firewood, carpet or drywall will give you a reading more representative of the internal moisture content rather than just surface moisture. When measuring firewood take

readings from internal cut surfaces rather than outer bark.

Note: you do not need to press any buttons to take a reading. Simply hold the pins in contact with the material and wait a few seconds for the moisture reading to change from “Lo” to a numeric value. If the material you are measuring has a very high moisture content the display will first read “HI” before settling on a value. If it remains on “HI” then the moisture content of your material is higher than the measuring range for the selected material. For example, when measuring drywall (material setting 3) moisture content above 22.1% will read “HI”. If the material you are measuring has a moisture content lower than the measuring range for the selected material, the display will remain on “Lo” and not change to a value. For example, when measuring drywall (material setting 3) moisture content below 0.8% will read “Lo”.

To ensure accurate measurements, please take multiple readings at different locations across the material’s surface.

Hold and Max / Min Value Display

When taking a measurement in hard to access areas you may want to press the Mode button once to freeze the currently displayed value. The symbol “HOLD” will be displayed in the top left corner along with the reading. Now

you can remove the meter from the material without losing the reading.

Pressing the Mode button again will display the maximum moisture and temperature values since powering the unit on. Press it once more to display the minimum values.

Temperature Unit Selection and Self Check

To change the air temperature measurement unit to °F or °C, press and hold the power button for 3 or more seconds. When you let go the temperature unit symbol will be flashing. Press the arrow button to choose Celsius or Fahrenheit, then press the Mode button to confirm your selection. Next you will see three dashes “---” on the display for a few seconds, followed by “PAS”. Press the Mode button again to leave this function and return to normal measuring mode.

Follow these same steps every time you change the batteries to perform a self-check. You don't need to change the temperature unit, simply confirm the current unit by pressing the Mode button and then wait to see the three dashes followed by the “PAS” symbol to know the unit is operating correctly. If the unit displays “NO” instead of “PAS” there is a problem with the unit and you'll need to contact support@ennologic.com.

2. SPECIFICATIONS

2.1 Parameters measured

Percentage of water content [%]	Wood and building materials, see table below for details
Air temperature [°C or °F]	-10 ~ 50°C, + 14 ~ 122°F

2.2 Moisture measuring ranges for various materials

Setting	Measuring Range	Material
Material 1	8.8 ~ 54.8%	Beech, Spruce, Larch, Birch, Cherry, Walnut, Carpet
Material 2	7.0 ~ 47.9%	Oak, Cedar, Maple, Ash, Douglas Fir, Meranti
Material 3	0.8 ~ 22.1%	Cement, Concrete, Plaster, Drywall
Material 4	0.0 ~ 11.0%	Anhydrite
Material 5	0.7 ~ 8.6%	Cement Mortar
Material 6	0.6 ~ 9.9%	Lime Mortar
Material 7	0.0 ~ 16.5%	Brick

2.3 Technical Specifications

Moisture Sensor	Electrical Resistance (Conductivity) Measurement
Air Temperature Sensor	NTC Temperature Sensor
Resolution	0.1%; 0.1°C; 0.1°F
Accuracy	±2%; ±1°C
Sampling Rate	0.5s
Operation Conditions	-10 ~ 50°C; + 14 ~ 122°F; 10% ~ 90%RH
Storage Conditions	-20 ~ 60°C; -4 ~ 140°F; 10% ~ 75%RH
Power Supply	3 x 1.5V AAA batteries
Size	121*55.5*28mm
Weight	115g (including batteries)
Accessories	batteries, manual, soft case

2.4 Maintenance

Do not store the instrument in environments of high temperature and/or humidity. Remove the batteries if the meter will be out of use for an extended period and stored it in a cool and dry place.

ennoLogic.com
PO Box 25207
Eugene, OR 97402

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