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ERICKHILL EWM01

ERICKHILL EWM01 Wood Moisture Meter User Manual

Model: EWM01

1. Introduction

The ERICKHILL EWM01 is a high-sensitivity pin-type wood moisture meter designed for accurate moisture measurement in various materials. It is a versatile tool suitable for homeowners, woodworkers, floor layers, and inspectors, ideal for use in woodworking, building construction, agriculture, and flooring applications. This manual provides detailed instructions for the proper use and maintenance of your EWM01 moisture meter.



Figure 1: ERICKHILL EWM01 Wood Moisture Meter

This image shows the ERICKHILL EWM01 Wood Moisture Meter, a black and green handheld device with a digital display and two metal pins at one end, designed for measuring moisture content in various materials.

2. Product Features

- **Accurate Measurement:** Equipped with two high-sensitivity metal-tipped pins that penetrate materials for precise moisture readings.
- **Compact Design:** Small and lightweight, making it easy to carry and use anywhere.
- **Multifunctionality:** Features auto power-off, data hold, and a battery indicator.
- **Green Backlit LCD:** Ensures clear readability of measurements even in low-light conditions. The backlight changes color (Red/Orange/Green) to indicate moisture levels.
- **Wide Application:** Includes 7 calibrated scales for measuring different types of materials, including various woods, firewood, brick, paper, cement mortar, gypsum, and concrete.

3. Package Contents

The ERICKHILL EWM01 Wood Moisture Meter package includes:

- 1 x ERICKHILL EWM01 Wood Moisture Meter
- 2 x AAA Batteries (included)
- 1 x User Manual



Figure 2: Product and Packaging Contents

This image displays the ERICKHILL EWM01 Wood Moisture Meter alongside its retail packaging and the included user manual, illustrating the complete product contents.

4. Specifications

Specification	Value
Manufacturer	ERICKHILL
Model Number	EWM01
Item Weight	3.88 ounces (110 Grams)
Package Dimensions	8.43 x 2.17 x 1.77 inches
Power Source	Battery Powered
Batteries Required	2 AAA batteries (included)
Material	Metal
Mounting Type	Tabletop

5. Setup

5.1. Battery Installation

The ERICKHILL EWM01 requires 2 AAA batteries for operation. These are included in the package.

1. Locate the battery compartment cover on the back of the device.
2. Open the battery compartment.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

5.2. Powering On/Off

Press the **red power button** ( ) to turn the device on. To turn it off, press and hold the red power button again. The device features an automatic shutdown function after approximately 10 minutes of inactivity to conserve battery life.



Figure 3: Automatic Shutdown

This image illustrates the automatic shutdown feature of the moisture meter, showing the display turning off after 10 minutes to save battery.

6. Operating Instructions

6.1. Taking a Measurement

1. Remove the protective cap from the two metal pins at the end of the meter.
2. Select the appropriate material mode (see Section 6.2).
3. Gently press the two metal pins into the material you wish to measure. Ensure both pins are fully inserted for an accurate reading.
4. Read the moisture percentage displayed on the LCD screen.



Figure 4: Measuring Wood Moisture

A gloved hand holds the ERICKHILL EWM01 moisture meter, pressing its pins into a piece of wood to measure its moisture content, with the digital display showing a reading.



Figure 5: Moisture Meter in Use

This image shows the ERICKHILL EWM01 moisture meter being used to measure moisture in wood, with the digital display clearly visible.

6.2. Material Modes and Ranges

The ERICKHILL EWM01 features 7 different material modes, each calibrated for specific material types and their corresponding moisture ranges. Press the **'M' button** to cycle through the modes (M1 to M7).

Mode	Material Type	Moisture Range (%)
M1	Beech, Spruce, Larch, Birch, Cherry, Walnut	8.5 ~ 60.0
M2	Oak, Pine, Maple, Ash, Douglas Fir, Eucalyptus	6.8 ~ 53.4
M3	Cement mortar layer, Concrete	0.9 ~ 24.5
M4	Anhydrous gypsum mortar layer	0.0 ~ 12.2

Mode	Material Type	Moisture Range (%)
M5	Cement mortar	0.7 ~ 9.2
M6	Lime mortar, Gypsum	0.5 ~ 11.0
M7	Bricks	0.0 ~ 17.8



Figure 6: Material Comparison Table

This image shows the material comparison table printed on the side of the ERICKHILL EWM01 meter, listing different material types and their corresponding moisture ranges for each mode (M1-M7).

6.3. Understanding the Display

- **Moisture Percentage:** The main number on the LCD screen indicates the moisture content in percentage.
- **Tricolor Backlight:** The screen's backlight changes color to provide a quick visual indication of moisture levels:
  - **Green:** Low moisture content.
  - **Orange:** Moderate moisture content.
  - **Red:** High moisture content.
- **MAX Value:** Press the **'MAX' button** to display the maximum moisture reading recorded during the current measurement session. This is useful for identifying the wettest spot in an area.
- **Low Battery Indicator:** A battery symbol will appear on the screen when the battery level is low, indicating that the batteries need to be replaced.



Figure 7: Tricolor Backlight Display

This image shows the ERICKHILL EWM01's digital display with its tricolor backlight, illustrating how green indicates low moisture, orange indicates moderate moisture, and red indicates high moisture content.



Figure 8: MAX Value Display

This image highlights the 'MAX' function on the ERICKHILL EWM01's display, showing how it indicates the maximum moisture reading obtained during a measurement.



Figure 9: Low Battery Symbol

This image shows the low battery symbol displayed on the ERICKHILL EWM01's screen, indicating that the batteries need to be replaced soon.

6.4. Official Product Video

Video 1: ERICKHILL Digital Pin Type Wood Moisture Meter

This video provides a visual demonstration of the ERICKHILL Digital Pin Type Wood Moisture Meter, showcasing its features and

how to use it for measuring moisture in various materials.

7. Maintenance

- Always replace the protective cap over the pins when the meter is not in use to prevent damage and ensure safety.
- Keep the pins clean and free of debris. Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- Store the moisture meter in a dry environment, away from extreme temperatures and direct sunlight.
- If the device will not be used for an extended period, remove the batteries to prevent leakage and damage to the meter.



Figure 10: Meter Pins with Protective Cap

A close-up view of the ERICKHILL EWM01's metal pins, emphasizing the importance of keeping them covered with the protective cap when not in use.

8. Troubleshooting

- **Inaccurate Readings:**
  - Ensure the pins are fully inserted into the material.
  - Verify that the correct material mode (M1-M7) is selected for the material being tested.
  - Check if the pins are clean and free from corrosion or debris.
- **Device Not Powering On:**
  - Check if the batteries are inserted correctly with the correct polarity.
  - Replace the batteries with new AAA batteries if the low battery symbol was previously displayed or if the device remains unresponsive.
- **Display Issues:**
  - If the display is dim or flickering, replace the batteries.

9. Warranty & Support

ERICKHILL is committed to producing professional and high-quality gauges. This product comes with lifetime technical support. For any questions, technical assistance, or support needs, please refer to the contact

information provided in your product packaging or visit the official ERICKHILL website.

Ask a question about this manual

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