ERICKHILL EWM04

ERICKHILL Pinless Wood Moisture Meter EWM04 User Manual

Model: EWM04

1. INTRODUCTION

The ERICKHILL EWM04 is a non-destructive moisture meter designed to measure moisture content in various materials such as wood, drywall, masonry, and other building materials. It utilizes inductive methods to provide accurate readings without damaging the surface of the material being tested. This manual provides detailed instructions for the proper use and maintenance of your device.

Image: ERICKHILL brand banner, indicating the company's focus on precision tools.

2. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present:

- 1 x ERICKHILL EWM04 Pinless Wood Moisture Meter
- 3 x AAA Batteries
- 1 x User Manual

Image: A visual representation of the package contents, including the meter, batteries, and user manual.

3. Key Features

- **Non-Destructive Measurement:** Measures moisture without piercing the surface, preserving material integrity.
- **Multiple Material Modes:** Dedicated modes for Softwood, Hardwood, Wall (drywall), and Masonry for accurate readings.
- **Deep Inspection:** Capable of detecting moisture up to 2 inches (50mm) below the surface.
- **Visual and Audible Alerts:** Features an LCD backlight and a tri-color bar indicator (Green, Yellow, Red) along with an audible alarm for easy interpretation of moisture levels.
- **Auto-Off Function:** Automatically powers off after 3 minutes of inactivity to conserve battery life.
- **Data Hold Function:** Allows users to freeze the current reading on the display.
- **Low Power Indicator:** Alerts when battery replacement is needed.

Non-destructive measurement

The pinless model allows you to measure without damaging the surface of the object

Ours
Pinless

VS

Others
Pin Type

Image: Illustrates the non-destructive nature of the EWM04 (pinless) compared to traditional pin-type meters.

Image: A diagram highlighting the larger sensing area and deeper sensing depth of the meter.

4. SETUP

4.1 Battery Installation

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

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To power on the device, press the **Power** button.
- To power off the device, press and hold the **Power** button for approximately 2 seconds. The device will also automatically power off after 3 minutes of inactivity.

Image: The meter screen indicating the 3-minute auto-off function for power saving.

5.2 Mode Selection

The EWM04 offers four measurement modes for different materials. Press the **MODE** button to cycle through the following options:

- **Softwood Mode:** For various types of softwood.
- **Hardwood Mode:** For various types of hardwood.
- **Wall Mode:** For drywall and similar wall materials.
- **Masonry Mode:** For brick, concrete, and other masonry materials.

4 Different Measurement Types

Softwood, Hardwood, Wall, Masonry

0-20%
WALL

0-60%
SOFTWOOD

0-33%
MASONRY

0-36%
HARDWOOD

Image: Visual representation of the four measurement modes and their typical ranges.

Image: Illustrates the different material types and their corresponding moisture measurement ranges.

5.3 Taking Measurements

1. Select the appropriate material mode using the **MODE** button.
2. Place the back of the meter flat against the surface of the material you wish to measure. Ensure full contact between the sensor area and the surface.
3. The moisture content will be displayed on the LCD screen.

Contain 9 Different Softwood Mode

Measurement is More Professional

Image: A person using the EWM04 to measure moisture in a large log, demonstrating practical application.

Image: A close-up of a hand holding the meter against a wooden surface, showing the non-destructive measurement process.

5.4 Understanding Readings and Alerts

The EWM04 provides clear visual and audible indications of moisture levels:

- **LCD Backlight:** The screen is backlit for visibility in various lighting conditions.
- **Tri-Color Bar Indicator:** A bar graph on the display changes color to indicate moisture levels:

  - **Green:** Dry
  - **Yellow:** Mid-level moisture
  - **Red:** Wet, indicating high moisture content.

- **Audible Alarm:** An alarm will sound when moisture levels exceed a preset threshold, indicating a potentially problematic wet area.

Image: A person checking wood moisture, with visual and audible alerts highlighted on the meter's display.

Image: A reference table detailing the moisture percentage thresholds for Green (Dry), Yellow (Mid), and Red (Wet) indicators across different material types.

5.5 Data Hold Function

Press the **HOLD** button to freeze the current measurement on the display. Press it again to release the hold and resume live measurements.

Image: The meter screen showing the 'HOLD' indicator, signifying that the displayed reading is frozen.

5.6 Water Leak Detection

The EWM04 can assist in identifying potential water leaks behind surfaces. By scanning walls or ceilings, significant changes in moisture readings can indicate hidden water damage.
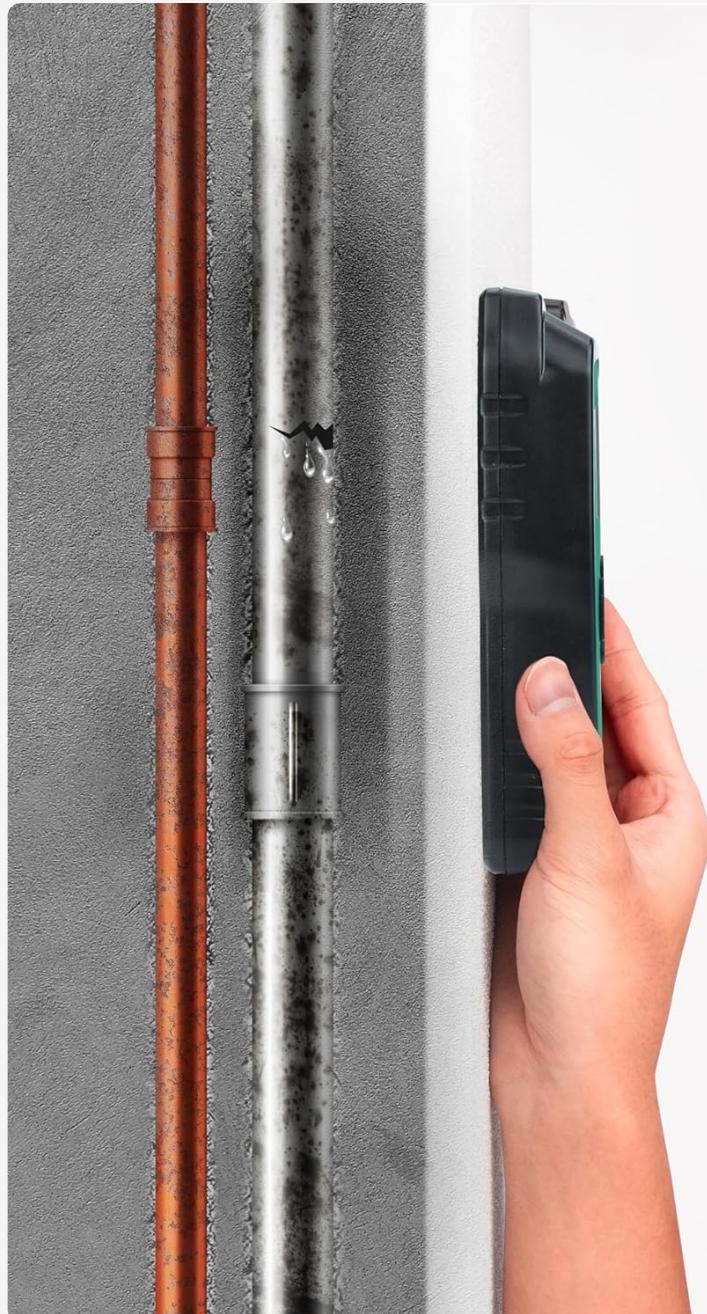
Image: The moisture meter being used to detect a water leak behind a wall, showing a high moisture reading.

6. MEASUREMENT RANGES AND ACCURACY

The ERICKHILL EWM04 provides the following measurement capabilities:

- **Softwood:** 0% ~ 60%
- **Hardwood:** 0% ~ 36%
- **Wall:** 0% ~ 96%
- **Masonry:** 0% ~ 100%

Accuracy: ±4% (for Softwood & Hardwood)

7. SPECIFICATIONS

Feature	Specification
Model Number	EWM04
Measurement Principle	Non-destructive, Inductive
Max Sensing Depth	50mm (2 inches)
Power Source	3 x AAA Batteries (included)
Auto-Off	3 minutes of inactivity
Display	LCD with Backlight, Tri-color Bar Indicator
Dimensions	7.01 x 3.39 x 1.93 inches
Weight	8.82 ounces

8. MAINTENANCE

- Keep the device clean and dry. Wipe with a soft, damp cloth if necessary.
- Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Store the device in a safe place, away from dust and potential damage.

9. TROUBLESHOOTING

9.1 Device Does Not Turn On

- Check if the batteries are installed correctly with the correct polarity.
- Replace the batteries with new AAA batteries.
- Ensure the power button is pressed firmly.

9.2 Inaccurate Readings

- Ensure the correct material mode (Softwood, Hardwood, Wall, Masonry) is selected for the material being tested.
- Make sure the sensor area on the back of the meter is in full and flat contact with the surface.
- Avoid measuring near metal objects or electrical wiring, as this can interfere with readings.
- Calibrate the device if possible (refer to specific instructions if a calibration feature is available, otherwise assume factory calibration).

9.3 Display Issues

- If the display is dim, replace the batteries.
- If the display shows an error message, try turning the device off and on again.

10. WARRANTY AND SUPPORT

ERICKHILL provides comprehensive support for its products:

- **3-Year Warranty:** Your ERICKHILL EWM04 moisture meter is covered by a 3-year warranty from the date of

purchase.

- **30-Day Free Return Policy:** Enjoy a 30-day free return policy for your peace of mind.
- **24-Hour Guaranteed Reply:** For any inquiries or support needs, contact ERICKHILL customer service. A response is guaranteed within 24 hours.

For customer support, please refer to the contact information provided in your user manual or visit the official ERICKHILL website.
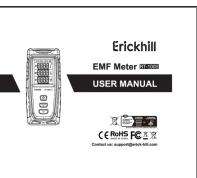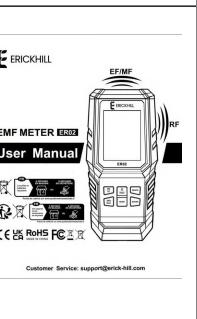
Image: Graphic detailing the 3-year warranty, 24-hour reply, and 30-day return policy.

Related Documents - EWM04

	[Erickhill RT-100S EMF Meter User Manual](#) User manual for the Erickhill RT-100S EMF Meter, detailing its features, operation, technical specifications, and applications for measuring electric, magnetic, and RF fields.
	[ERICKHILL ER02 EMF Meter User Manual](#) Explore the capabilities of the ERICKHILL ER02 EMF Meter with this comprehensive user manual. Learn about its 3-in-1 functionality for measuring electric, magnetic, and radio frequency fields, including operation, specifications, and safety guidelines.

ERICKHILL ROOK 400/600 SP IR Thermometer User Manual

User manual for the ERICKHILL ROOK 400 SP and ROOK 600 SP infrared thermometers.

Provides instructions on operation, features, safety, and technical specifications.