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General Tools MMD4E

General Tools MMD4E Digital Pin-Type Moisture Meter User Manual

Model: MMD4E

1. INTRODUCTION

The General Tools MMD4E Digital Pin-Type Moisture Meter is designed for accurate measurement of moisture content in various materials. It features a backlit LCD display, audible and visual alerts for low, medium, and high moisture levels, and an ergonomic design for comfortable use. This meter is suitable for assessing moisture in wood, concrete, drywall, and subflooring, aiding in early detection of water damage and mold prevention.

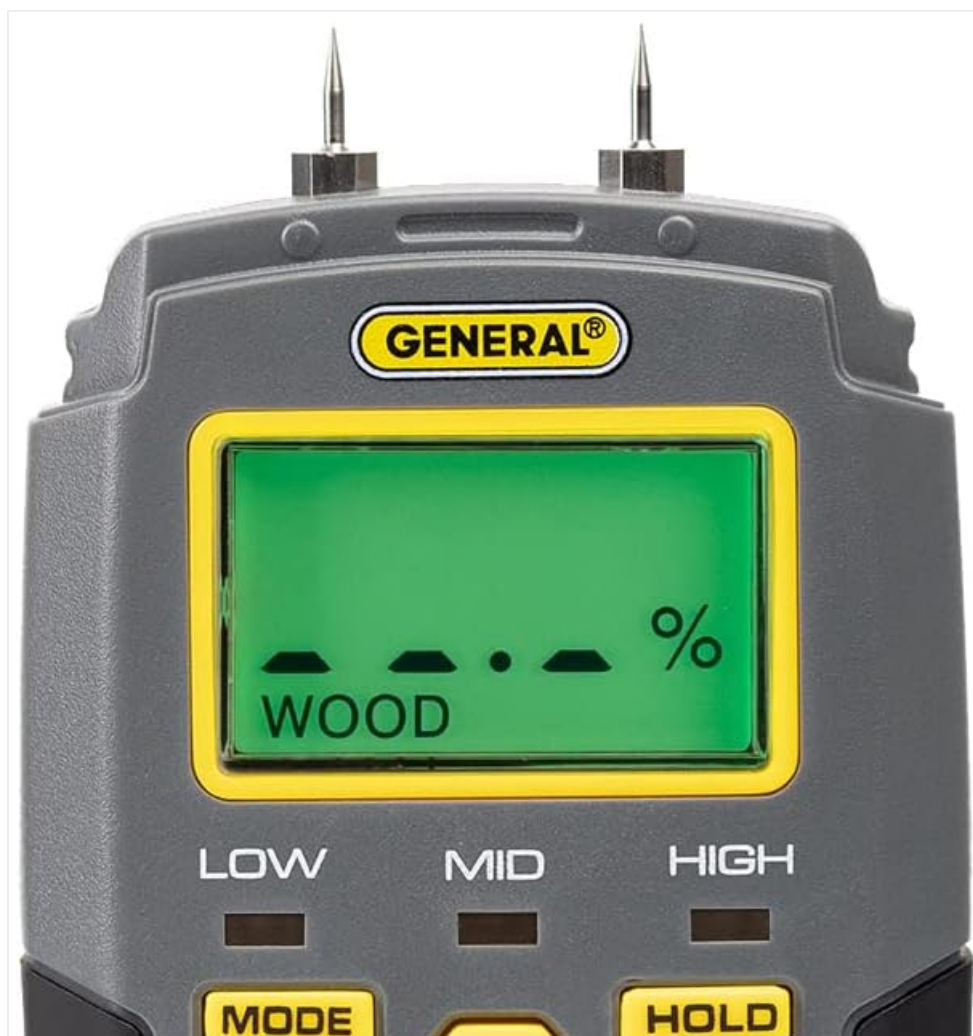




Figure 1: General Tools MMD4E Digital Pin-Type Moisture Meter. This image shows the front view of the gray and yellow moisture meter with its digital LCD screen and control buttons.

2. SETUP

2.1 Battery Installation

The MMD4E meter requires one 9V battery (included). To install or replace the battery:

1. Locate the battery compartment on the back of the device.
2. Slide open the battery cover.
3. Insert a new 9V battery, ensuring correct polarity.
4. Close the battery cover securely.

2.2 Pin Cover and Calibration Check

The meter comes with a protective cap that covers the pins. This cap also serves as a calibration checker.

- To expose the pins for measurement, gently pull off the protective cap.
- To perform a quick calibration check, align the pins with the two small holes inside the cap and press down. The display should show a specific reference reading (e.g., 18.5% as seen in some demonstrations) to

confirm the meter is functioning correctly.



Figure 2: Close-up of the MMD4E showing the stainless steel pins and the protective cap, which also functions as a calibration checker.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Press the yellow power button () to turn the meter on. Press and hold the power button to turn it off.

3.2 Mode Selection

The MMD4E has two measurement modes: Wood and Building Materials. Press the **MODE** button to toggle between these two settings.

- **Wood Mode:** Measures moisture content in wood from 5% to 50%.
- **Building Material Mode:** Measures moisture content in materials like concrete and drywall from 1.5% to 33%.

DUAL MODES

Test drywall or wood with the push of a button.



Figure 3: The moisture meter displaying "BLDG" for building materials mode and "WOOD" for wood mode, illustrating the dual functionality.

3.3 Taking Measurements

To obtain a moisture reading:

1. Ensure the correct mode (Wood or Building) is selected for the material you are testing.
2. Carefully push the two stainless steel pins into the surface of the material. Ensure both pins are fully inserted for an accurate reading.
3. The moisture percentage will be displayed on the backlit LCD screen.



Figure 4: A hand holding the moisture meter, with its pins inserted into a piece of wood, displaying a moisture reading on the screen.

3.4 Interpreting Readings and Alerts

The meter provides both digital percentage readings and visual/audible alerts:

- **Digital Display:** Shows the exact moisture percentage. The large 0.3" high digits are easy to read, even in low light conditions due to the backlight.
- **Visual Alerts:** LED indicator lights (Low, Mid, High) illuminate to quickly indicate the moisture level range.
 - **LOW** (Blue LED): Indicates low moisture content.
 - **MID** (Green LED): Indicates medium moisture content.
 - **HIGH** (Red LED): Indicates high moisture content, suggesting potential water damage or mold risk.
- **Audible Alerts:** The meter emits tones corresponding to the moisture level, providing an additional alert mechanism.

INDICATOR LIGHTS

Instantly let you know your level of risks

LOW



MID



HIGH



Figure 5: The moisture meter displaying a reading with the "MID" indicator light illuminated, showing the visual alert system.

3.5 Hold Function

Press the **HOLD** button to freeze the current reading on the display. This is useful when taking measurements in hard-to-reach areas where the display cannot be easily viewed directly. Press the HOLD button again to release the reading.

4. MAINTENANCE

4.1 Pin Care and Replacement

The stainless steel pins are designed for durability but may become loose or damaged over time, especially when used on very hard materials. If pins become loose, they can often be tightened with a small tool. Replacement pins are available if needed.



Figure 6: Image showing replacement pins for the moisture meter, highlighting their threaded design for secure attachment.

4.2 Cleaning

Wipe the meter with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.

5. TROUBLESHOOTING

If the meter is not functioning as expected, consider the following:

- **No Display/Faint Display:** Check the 9V battery. Replace if necessary.
- **Inaccurate Readings:**
 - Ensure pins are fully inserted into the material.
 - Verify the correct measurement mode (Wood/Building) is selected.
 - Perform a calibration check using the protective cap.
 - Check if pins are damaged or loose; tighten or replace if needed.
- **No Audible Alert:** Check if the audible alert feature is enabled (refer to full product manual for specific settings if available).

6. SPECIFICATIONS

Feature	Detail
Brand	General Tools
Model	MMD4E
Wood Moisture Range	5% to 50%
Building Material Moisture Range	1.5% to 33%
Accuracy	±2%
Display	Backlit LCD with 0.3" high digits
Alerts	Audible and Visual (Low, Mid, High LEDs)
Power Source	1 x 9V Battery (included)

Product Dimensions	9.5"W x 1.4"H (Note: This seems to be an error in the source data, likely referring to package dimensions or a different measurement. The device itself is smaller.)
Item Weight	4.2 ounces
Included Components	Moisture meter, 9V battery, extra pins

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The General Tools MMD4E Digital Pin-Type Moisture Meter comes with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact General Tools customer support. Refer to the official General Tools website for the most current contact information.