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Tadeto WM700

Tadeto Digital Moisture Meter WM700 User Manual

Model: WM700

INTRODUCTION

This user manual provides detailed instructions for the safe and effective operation of your Tadeto Digital Moisture Meter WM700. This device is designed to accurately measure moisture content in various materials, including wood and building materials, and also provides ambient temperature and humidity readings. Please read this manual thoroughly before use and retain it for future reference.

WHAT'S INCLUDED

- 1 x Tadeto Digital Moisture Meter WM700
- 1 x User Manual
- 1 x Protective Bag
- 2 x 1.5V AAA Batteries

PRODUCT OVERVIEW

The Tadeto Digital Moisture Meter WM700 is a compact and lightweight tool equipped with high-precision pins for accurate moisture detection. It features a backlit LCD for clear readings in various lighting conditions and offers two primary measurement modes for different material types.



Figure 1: Tadeto Digital Moisture Meter WM700, showing the device, protective cap, and two AAA batteries.

Components



Figure 2: Key components of the moisture meter, including measurement pins, LCD screen, Power button, SET button, and protective cap.

- **Measurement Pins:** Two high-precision pins for penetrating materials to detect moisture.
- **LCD Screen:** Digital display with backlight for clear readings of moisture content, temperature, and humidity.
- **MODE/Power Button:** Used to power the device on/off and to switch between display modes (e.g., ambient temperature/humidity).
- **SET Button:** Used to select material types for moisture measurement and to switch temperature units (°C/°F).
- **Protective Cap:** Covers the measurement pins when not in use and serves as a calibration aid.

Wide Range of Applications

It can be used to measure wood, walls, bricks, cement, cartons, etc



Figure 3: Wide range of applications for the moisture meter, including wood, walls, bricks, cement, and cartons.

SETUP

Battery Installation

The Tadeto Digital Moisture Meter WM700 requires two 1.5V AAA batteries (included). To install or replace batteries:

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

When the battery is low, the LCD will display a low voltage symbol, indicating that the batteries need to be replaced.

OPERATING INSTRUCTIONS

Power On/Off

Press and hold the **MODE/Power** button to turn the device on or off. The device features an automatic shutdown function after approximately 10 minutes of inactivity to conserve battery life.



Figure 4: Powering on the device by pressing the MODE/Power button.

Selecting Measurement Mode (Material Type)

The meter offers two main measurement modes: Wood and Building Materials. These are further categorized into 7 material groups (MAT 1-7) for enhanced accuracy.

1. After powering on, press the **SET** button repeatedly to cycle through the material groups (MAT 1 to MAT 7).
2. Refer to the table below or the device's quick reference guide for the appropriate material group for your measurement.
 - **MAT 1-3:** For various types of wood.
 - **MAT 4-7:** For different building materials (e.g., concrete, plaster, brick).



Figure 5: Selecting the material measurement mode (MAT) using the SET button.

Taking a Moisture Measurement

1. Ensure the protective cap is removed from the measurement pins.
2. Select the appropriate material mode using the **SET** button.
3. Carefully push the measurement pins into the material you wish to test. Ensure both pins are fully inserted for an accurate reading.
4. Read the moisture content percentage displayed on the LCD screen.
5. After measurement, gently pull the pins out and replace the protective cap.



Figure 6: Measuring moisture content by inserting pins into wood.



Figure 7: Detecting moisture in a wall, indicating potential water leaks or dampness.

Ambient Temperature and Humidity Measurement

The device can also display the current ambient temperature and humidity.

1. After powering on, briefly press the **MODE/Power** button. The display will switch to show ambient temperature and humidity.
2. To switch between Celsius (°C) and Fahrenheit (°F) temperature units, press the **SET** button while the ambient temperature is displayed.

Calibration

The protective cap includes a built-in test board for quick calibration to ensure measurement accuracy.

1. Remove the protective cap from the measurement pins.
2. Insert the measurement pins into the two holes on the test board located on the inside of the protective cap.
3. The display should show a reference value (e.g., T-52% / B-27% ±5%). If the reading deviates significantly, the device may require service.

Fiducial Detection

There is a test board on the cap, which can detect the reference point

CALIBRATION STANDARD
(T-52% / B-27% \pm 5%)



Figure 8: Using the protective cap's test board for calibration.

MEASUREMENT RANGES AND ACCURACY

Understanding the measurement ranges and accuracy is crucial for interpreting readings correctly.



Figure 9: Overview of the device's measurement capabilities and precision.

Measurement Specifications

Parameter	Range	Accuracy
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Parameter	Range	Accuracy
Wood Moisture (MAT 1-3)	3.7% - 82%	±5%
Building Material Moisture (MAT 4-7)	0.1% - 80%	±5%
Ambient Temperature	-10°C to 60°C (-50°F to 140°F)	±1.5°C/°F
Ambient Humidity	0% - 100%	±5%

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the moisture meter in a dry, cool place, away from direct sunlight and extreme temperatures. Always replace the protective cap over the pins when storing.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings and prevent battery leakage.
- **Pin Care:** The measurement pins are sharp. Handle with care. If pins become bent or damaged, contact customer support for assistance.

TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with new AAA batteries.
Low battery indicator displayed.	Batteries are low.	Replace both AAA batteries.
Inaccurate or inconsistent readings.	Incorrect material mode selected, pins not fully inserted, or device needs calibration.	Ensure correct material mode is selected. Insert pins completely. Perform calibration using the protective cap.
LCD backlight not working.	Low battery or device malfunction.	Replace batteries. If issue persists, contact customer support.

SPECIFICATIONS

- **Model:** WM700
- **Brand:** Tadeto
- **Dimensions (L x W x H):** 7.5 x 3.8 x 15.7 cm (2.95 x 1.5 x 6.18 inches)
- **Weight:** 170 grams (0.37 lbs)
- **Power Source:** 2 x 1.5V AAA Batteries (included)
- **Display:** Backlit LCD
- **Automatic Shutdown:** Approximately 10 minutes of inactivity
- **UPC:** 768358146985
- **Color:** Green

WARRANTY AND SUPPORT

Tadeto offers a **12-month warranty** on this product from the date of purchase. This warranty covers manufacturing defects and workmanship. It does not cover damage caused by misuse, accident, unauthorized modification, or normal wear and tear.

For warranty claims, technical support, or any questions regarding your Tadeto Digital Moisture Meter WM700, please contact our customer service department. Please have your purchase receipt and product model number (WM700) available when contacting support.