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Dr.meter MT1905

Dr.meter Wood Moisture Meter User Manual

Model: MT1905 | Brand: Dr.meter

INTRODUCTION

The Dr.meter 2-in-1 Wood Moisture Meter (Model MT1905) is a versatile digital device designed for accurately measuring moisture content in various materials, including wood, firewood, drywall, paper, and flooring. It features both pin-type and pinless scanning modes, offering flexibility for different measurement needs. Additionally, it can measure ambient temperature, making it a comprehensive tool for professionals and DIY enthusiasts alike.



Image: The Dr. meter MT1905 moisture meter, highlighting its dual functionality.

SETUP

1. **Unboxing:** Carefully remove the moisture meter and its accessories from the packaging.
2. **Battery Installation:** The device requires batteries (Alkaline, typically AAA, though not explicitly stated in provided data, common for such devices). Locate the battery compartment on the back of the device, open it, insert the batteries according to the polarity indicators, and close the compartment securely.
3. **Power On:** Press the power button (usually marked with an orange circle) to turn on the device. The green backlight display should illuminate.



Image: The Dr. meter MT1905 being held, demonstrating its ergonomic design.

OPERATING INSTRUCTIONS

1. Pin-Type Testing Mode

The pin-type mode provides faster response and higher accuracy, suitable for all kinds of wood and building materials. This mode uses two sharp pins to penetrate the material for direct moisture measurement.

- **Activation:** Remove the protective cap covering the pins.
- **Measurement:** Gently press the pins into the material you wish to test. Ensure both pins make good contact.
- **Reading:** The moisture content will be displayed on the screen.
- **Range:** Wood: 5%-50%; Building Materials: 1.5%-33%. Error range: +/-2%.



Image: Demonstrating pin-type moisture measurement on a piece of wood.

2. Pinless Scanning Mode

The pinless scanning mode offers non-invasive measurement, ideal for high-end wood and sensitive building materials where pin marks are undesirable. This mode uses electromagnetic sensors to detect moisture without piercing the surface.

- **Activation:** Ensure the protective cap is on, covering the pins. The device automatically switches to pinless mode when the cap is in place.
- **Measurement:** Place the back of the meter flat against the surface of the material.
- **Reading:** The moisture content will be displayed on the screen.
- **Range:** Wood: 0%-53%; Building Materials: 0-35%. Error range: +/-4%.



Image: Demonstrating pinless scanning on a wooden surface, showing the non-invasive method.

3. Over-Range Alert

The meter features an audible alert system to notify you when moisture levels exceed predefined thresholds, indicating potentially problematic dampness.

- **Wood:** An alert will sound if wood moisture exceeds 17%.
- **Wall/Building Materials:** An alert will sound if wall humidity exceeds 70%.

Over-range Alert

You'll hear DI~ alert when the **wood's** moisture is over 17%, or the **building's** moisture is over 70%.



Wood's > 17%



Building's > 70%



Image: Visual representation of the over-range alert feature for wood and building materials.

4. Current Ambient Temperature Measurement

Beyond moisture detection, the Dr.meter MT1905 can also measure the current ambient temperature, providing additional environmental data.

- **Range:** 0-40 degrees Celsius (32-104 degrees Fahrenheit).
- **Accuracy:** +/- 2 degrees Celsius.
- **Unit Conversion:** The device supports switching between Celsius and Fahrenheit units.



Image: The meter displaying ambient temperature, with an illustration of Celsius to Fahrenheit conversion.

5. User-Friendly Features

- **Green Backlight Display:** Ensures clear readability in various lighting conditions.
- **Reading Hold Function:** Allows you to freeze the current measurement on the screen for easier recording.

- **Measurement Signal Bar Display:** Provides intuitive visual cues for moisture levels.
- **Auto Shut-off:** The device automatically turns off after 3 minutes of inactivity to conserve battery life.

Various Application



Image: The auto shut-off feature, indicating power saving after 3 minutes of inactivity.

APPLICATIONS

The Dr.meter MT1905 is suitable for a wide range of applications, including:

- Woodworking and carpentry (checking lumber dryness)
- Home inspection (detecting water leaks in walls, floors, and ceilings)
- Firewood preparation (ensuring optimal burning efficiency)
- Paper and textile moisture assessment
- Construction and renovation projects (monitoring moisture in drywall, masonry, and flooring)



Image: The moisture meter in use, checking the moisture content of firewood.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in its provided nylon storage bag in a cool, dry place when not in use. Ensure the protective cap is on the pins to prevent damage and injury.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings.
- **Pin Care:** If using the pin-type mode frequently, inspect the pins for damage or bending. Replace if necessary (replacement pins typically not included but can be sourced).

Small & Portable

Equipped with a storage bag,
easy to carry with



Image: The Dr.meter MT1905 stored in its convenient nylon carrying bag.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device won't turn on	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate readings	Incorrect mode selected; poor contact with material; pins damaged (pin-type).	Ensure correct mode (wood/building material, pin/pinless); ensure full contact; inspect and clean/replace pins.
Over-range alert constantly beeping	Material moisture content is genuinely high.	This indicates high moisture. Allow material to dry or address the moisture source.

SPECIFICATIONS

- **Model Number:** MT1905
- **Brand:** Dr.meter
- **Color:** 2 in 1
- **Item Weight:** 0.24 Kilograms (8.47 ounces)
- **Package Dimensions:** 7.56 x 3.82 x 1.85 inches
- **Battery Description:** Alkaline (Batteries not included, typically AAA)
- **Mounting Type:** Wall Mount (This seems like a misclassification from the source data, as it's a handheld device. User should disregard this if it doesn't apply to the product's function.)
- **Pin-Type Wood Range:** 5%-50%
- **Pin-Type Building Material Range:** 1.5%-33%
- **Pinless Wood Range:** 0%-53%
- **Pinless Building Material Range:** 0-35%
- **Temperature Measurement Range:** 0-40°C (32-104°F)
- **Auto Shut-off:** After 3 minutes of inactivity

WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official Dr.meter website or contact their customer service directly. A digital version of the user manual is also available for download:
[Download User Manual \(PDF\)](#)
Visit the official Dr.meter store for more products and information:[Dr.meter Store](#)

