

RDINSCOS MT28

RDINSCOS MT28 Pinless Moisture Meter Instruction Manual

Model: MT28 | Brand: RDINSCOS

1. INTRODUCTION

The RDINSCOS MT28 Pinless Moisture Meter is a non-destructive device designed for detecting hidden moisture in various materials such as walls, wood, and floors. It utilizes advanced sensor technology to provide relative moisture readings without causing damage to surfaces. This manual provides essential information for safe and effective operation of your device.

The meter is ideal for identifying potential moisture problems from leaks, flooding, or condensation behind drywall, wood, or concrete, helping to prevent costly structural damage. It is a valuable tool for home inspectors, contractors, renovators, and DIY homeowners.

2. SAFETY INFORMATION

- Always keep the device away from metal objects (pipes, nails, studs) and wetter materials during measurement to avoid inaccurate readings.
- Ensure your fingers do not cover the sensor area on the back of the device during measurements.
- Test on flat, clean, and smooth surfaces for reliable comparative results.
- Do not expose the device to extreme temperatures or humidity.
- Store the device in a dry, cool place when not in use.

3. PRODUCT OVERVIEW

3.1. Components

The RDINSCOS MT28 Pinless Moisture Meter package includes:

- 1 x Pinless Moisture Meter (MT28)
- 1 x 9V Battery
- 1 x Storage Bag
- 1 x User Manual

3.2. Key Features

- **Non-Destructive Measurement:** Detects moisture without leaving holes or marks on surfaces.
- **Large LCD Display:** Provides clear and easy-to-read moisture percentage readings.
- **LED Humidity Alarm:** Features a colorful indicator bar (Green: Dry, Yellow: Medium, Red: Wet) for quick visual assessment.
- **Multiple Measurement Modes:** Supports measurement for Wall, Masonry, Soft Wood, and Hard Wood.
- **Measurement Depth:** Identifies moisture problems up to 19mm (0.75 inches) below the surface.
- **Hold Function:** Freezes the current reading on the screen for convenient recording.
- **Built-in Flashlight:** Assists in taking measurements in dark environments.



Figure 1: RDINSCOS MT28 Pinless Moisture Meter illustrating its 19mm measuring depth capability across wall, masonry, soft wood, and hard wood.

4. SETUP

4.1. Battery Installation

The MT28 moisture meter requires one 9V alkaline battery (included). To install or replace the battery:

1. Open the battery compartment cover located on the back of the device.
2. Insert the 9V battery, ensuring correct polarity (+ and - terminals).
3. Close the battery compartment cover securely.

The low battery indicator will display when the battery level is low. Please replace it with a new one.

4.2. Initial Calibration

To ensure accurate readings, it is recommended to calibrate the meter before use or if you suspect inaccurate readings. To calibrate:

- Turn on the device.
- Hold the meter in the air, away from any objects or surfaces.
- Long press the "HOLD" button until the display shows "CAL" and then resets to "0.0%". This indicates successful calibration.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- To turn on the meter, press the **Power button** (usually marked with a power symbol).
- To turn off the meter, long press the **Power button** for about 2 seconds. The device will also auto-power off after 5 minutes of inactivity.

5.2. Selecting Measurement Mode

The MT28 offers four measurement modes for different materials:

- **WALL:** For drywall and similar wall materials.
- **MASONRY:** For brick, concrete, and plaster.
- **SOFT WOOD:** For soft wood types.
- **HARD WOOD:** For hard wood types.

To select the appropriate mode, press the **MODE button** repeatedly until the desired material type is displayed on the screen.

Your browser does not support the video tag.

Video 1: Demonstration of the RDINSCOS MT28 Pinless Moisture Meter, showcasing its non-destructive measurement, LED humidity alarm, and various measurement modes for wall, masonry, soft wood, and hard wood. It also highlights the calibration process and built-in flashlight.

5.3. Taking Measurements

Once the correct mode is selected:

1. Place the back of the meter (sensor area) flat against the surface you wish to measure.
2. Ensure full contact between the sensor and the material for accurate readings.
3. The moisture percentage will be displayed on the LCD screen.
4. The LED indicator bar will also provide a visual representation of the moisture level.

Scan Area to Compare Relative Moisture Content



Figure 2: Scanning an area with the MT28 to compare relative moisture content on a wall.

5.4. Interpreting Readings

The MT28 provides relative moisture readings, not absolute %MC. Material density and surface finish can affect results. Use the meter to compare zones and identify anomalies rather than as a single definitive measurement.

Moisture Level Interpretation Guide

Moisture Level	Wall (0-25%)	Masonry (0-43%)	Soft Wood (0-75%)	Hard Wood (0-75%)
DRY (Green LED)	<8%	<13%	<20%	<12%
MID (Yellow LED)	8%-12%	13%-21%	20%-26%	12%-16%
WET (Red LED)	≥12%	≥21%	≥26%	≥16%

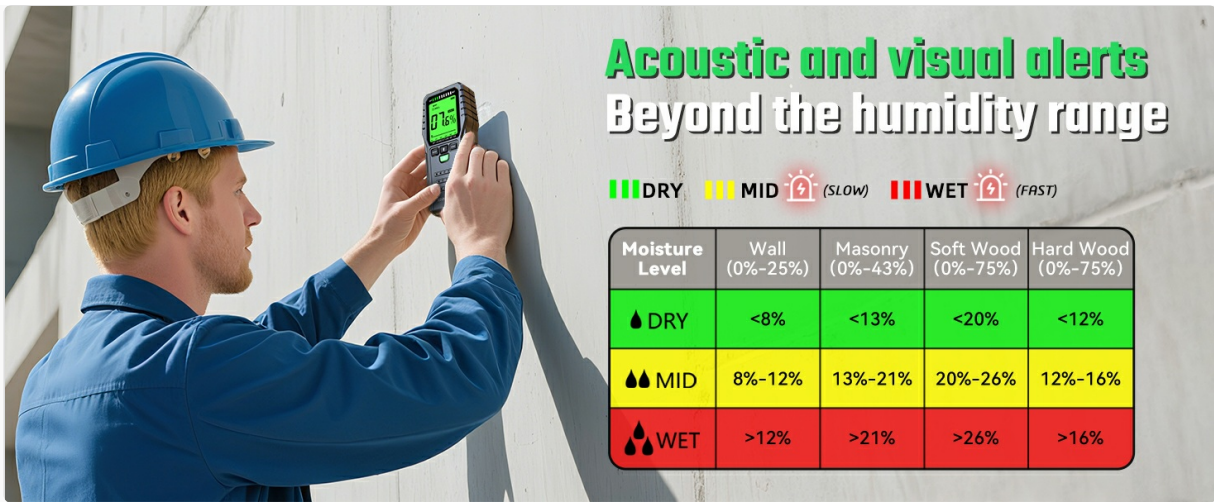


Figure 3: Visual representation of moisture levels (Dry, Mid, Wet) and corresponding percentage ranges for various materials.

5.5. Hold Function

To freeze the current reading on the display, press the **HOLD button**. This is useful when measuring in hard-to-reach areas. Press the **HOLD button** again to release the reading.

5.6. Built-in Flashlight

The MT28 includes a built-in flashlight to illuminate dark measurement areas. To activate or deactivate the flashlight, press the **Flashlight button** (usually marked with a light bulb icon).

6. MEASUREMENT TIPS FOR BEST ACCURACY

- For reliable comparison, always test on flat, clean, and smooth surfaces.
- Avoid metal objects (pipes, nails, studs) as they can interfere with readings.
- Keep consistent test locations and record comparative values for trend tracking.
- Multiple measurements and averaging are recommended, especially if readings vary due to position, angle, or environmental conditions.

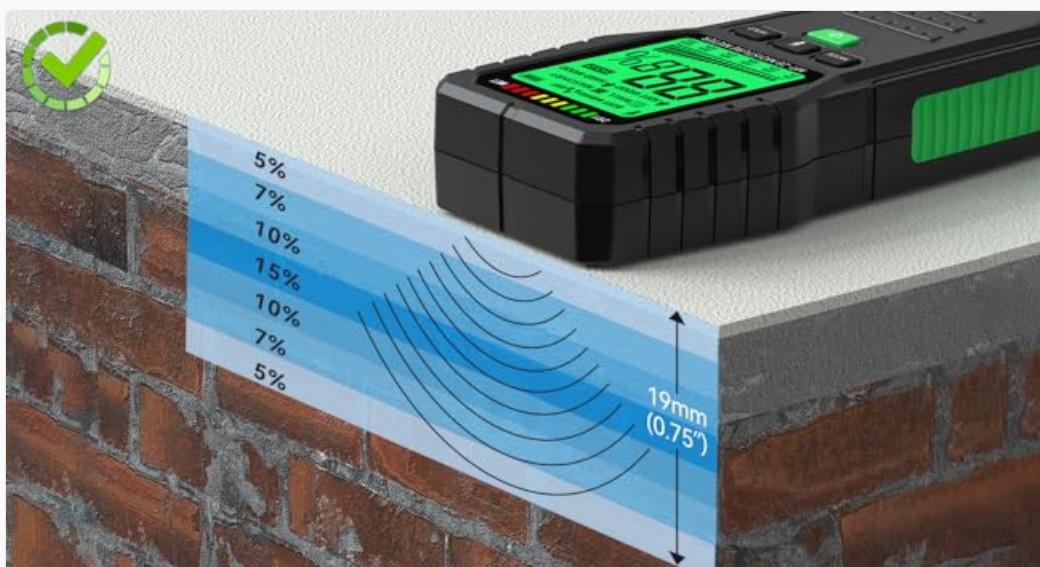


Figure 4: Proper technique for detecting moisture, emphasizing keeping away from metal and ensuring a flat, clean surface.



Figure 5: Incorrect usage of the moisture meter, demonstrating how metal objects like rebar and pipes can interfere with readings.

7. MAINTENANCE

- Clean the device regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Remove the battery if the device will not be used for an extended period to prevent leakage.
- Store the meter in its protective bag in a cool, dry place.

8. TROUBLESHOOTING

- **Inconsistent Readings:** Ensure the surface is flat, clean, and free from metal. Take multiple measurements and average them. Calibrate the device if necessary.
- **No Display/Device Not Turning On:** Check if the battery is correctly installed and has sufficient charge. Replace the battery if needed.
- **Reading Suddenly Increases (WALL/MASONRY mode):** This may indicate the presence of other conductors inside the wall, such as steel bars or wires. Pay attention to these interference factors.

9. SPECIFICATIONS

Specification	Detail
Model Number	MT28
Measurement Principle	Pinless, Inductive
Measurement Depth	Max 19mm (0.75 inches)
Wall Measurement Range	0-25%
Masonry Measurement Range	0-43%
Soft Wood Measurement Range	0-75%
Hard Wood Measurement Range	0-75%
Power Source	1 x 9V Alkaline Battery
Auto Power-Off	5 minutes of inactivity
Item Weight	240 g
Parcel Dimensions	16.9 x 8.2 x 4.6 cm
Country of Origin	China

10. WARRANTY AND SUPPORT

RDINSCOS offers a 2-year warranty for the MT28 Pinless Moisture Meter. If you encounter any product problems or concerns, please contact us for assistance. We are committed to providing excellent service and will respond within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official RDINSCOS store on Amazon.

Need Help?



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**Contact Us Anytime
We're Here for You!**

Backed by Replacement
Guarantee & Friendly Support

CONTACT US

Figure 6: Contact information for support, emphasizing a replacement guarantee and friendly assistance.