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› LASELION MS04 Pinless Moisture Meter User Manual

LASELION MS04

LASELION MS04 Pinless Moisture Meter User Manual

Model: **MS04**

Brand: **LASELION**

INTRODUCTION

The LASELION MS04 is a non-destructive pinless moisture meter designed for quick and accurate detection of moisture levels in various materials such as wood, walls, and other construction materials. Its ball probe allows for scanning large areas and hard-to-reach corners without damaging surfaces. This manual provides essential information for the safe and effective use of your device.



Image: The LASELION MS04 Pinless Moisture Meter, showing its ergonomic design and ball probe.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x MS04 Moisture Meter
- 1 x User Manual
- 3 x AAA Batteries
- 1 x Carrying Case



Image: Contents of the LASELION MS04 package, including the meter, manual, batteries, and carrying case.

KEY FUNCTIONS AND DISPLAY OVERVIEW

Familiarize yourself with the components and display indicators of the MS04 moisture meter.

KEY FUNCTIONS AND DISPLAY OVERVIEW



Image: Detailed diagram of the LASELION MS04, highlighting its non-destructive humidity sensor, flashlight status icon, temperature display, moisture content level icon (DRY, MID, WET), battery status icon, analog display, hold icon, measurement value display, maximum/minimum moisture value display, numeric adjustment buttons, set button, power on/off button, MEAS calibration/data hold button, and battery cover.

SETUP

1. Installing Batteries

1. Open the battery cover located on the back of the device.
2. Insert 3 AAA batteries, ensuring correct polarity.
3. Close the battery cover securely.

2. Powering On/Off

Press the **Power On/Off Button** to turn the device on or off. The device will automatically power off after 10 minutes of inactivity to conserve battery life.

HOW TO SETTING ALARM THRESHOLDS

Setting WET Alarm Threshold

Before calibrating, press the **⚙** key twice. Use the plus **▲** and minus **▼** keys to adjust the WET alarm threshold to the desired value (setting range 51-99, default value 60), then press the **MEAS** button once to exit the setting mode and complete the WET alarm threshold setup.



Image: A clock indicating 10 minutes, illustrating the automatic shutdown feature of the LASELION MS04 to save battery.

3. Initial Calibration

After powering on, ensure the device is at least 10cm away from any surface. Press the **MEAS** button once. Calibration will complete within 3 seconds, ensuring precise measurements.

QUICK & ACCURATE DETECTION IN VARIOUS MATERIALS



Image: A hand holding the LASELION MS04, demonstrating the simple and quick calibration process by pressing the 'MEAS' button while away from surfaces.

OPERATING INSTRUCTIONS

1. Taking a Measurement

Place the ball probe directly onto the surface of the material you wish to measure. The device will display the moisture content level. The non-destructive nature of the ball probe allows for scanning large areas and corners without causing damage.

FAST & ACCURATE MEASUREMENT



Wash Basin - Tile Moisture Detection



Ceiling - Plasterboard Moisture Detection



Wooden Flooring - Moisture Detection



Wall Corner - Moisture in Corners

Image: The LASELION MS04 in use, demonstrating non-invasive pinless moisture detection on a tiled surface, with indicators for DRY, MID, and WET moisture levels.

2. Measuring Depth

The MS04 accurately detects moisture levels from 5mm to 40mm below the surface. This allows for the detection of hidden moisture in various materials.

Q: What is the difference between Relative and WME (Wood Moisture Equivalent) readings?

A: Relative readings, used by the **LASELION MS04**, provide comparative moisture levels within the same material. By scanning a known dry area and comparing it to other sections, the device detects moisture differences, helping you identify potential problem areas. In contrast, WME readings measure the absolute moisture percentage in an object, typically used for wood-specific applications.



Image: Diagram illustrating the LASELION MS04's ability to locate hidden moisture up to 40mm (1.57in) below the surface, showing signal penetration through different wall thicknesses.

3. Customizable Alarm Thresholds

The device features customizable MID and WET alarm thresholds.

Setting MID Alarm Threshold:

1. Before calibrating, press the **Set button** (gear icon).
2. Use the **plus (▲)** and **minus (▼)** keys to adjust the MID alarm threshold to the desired value (setting range 1-50, default value 30).
3. Press the **Set button** twice to exit the setting mode and complete the MID alarm threshold setup.

Q: How can I verify the accuracy of my measurement results?

A: To verify the accuracy of your readings, take multiple measurements at the same spot to ensure consistency. If the results are similar, the measurements are likely accurate. You can also test the **LASELION MS04** on materials with known moisture content to validate its performance. For even more confidence, cross-check readings across different locations and materials. This ensures reliable and accurate results for all your moisture detection needs.



Image: Instructions on how to set the MID alarm threshold on the LASELION MS04, showing the display during the setting process.

Setting WET Alarm Threshold:

1. Before calibrating, press the **Set button** (gear icon) twice.
2. Use the **plus (▲)** and **minus (▼)** keys to adjust the WET alarm threshold to the desired value (setting range 51-99, default value 60).
3. Press the **MEAS button** once to exit the setting mode and complete the WET alarm threshold setup.

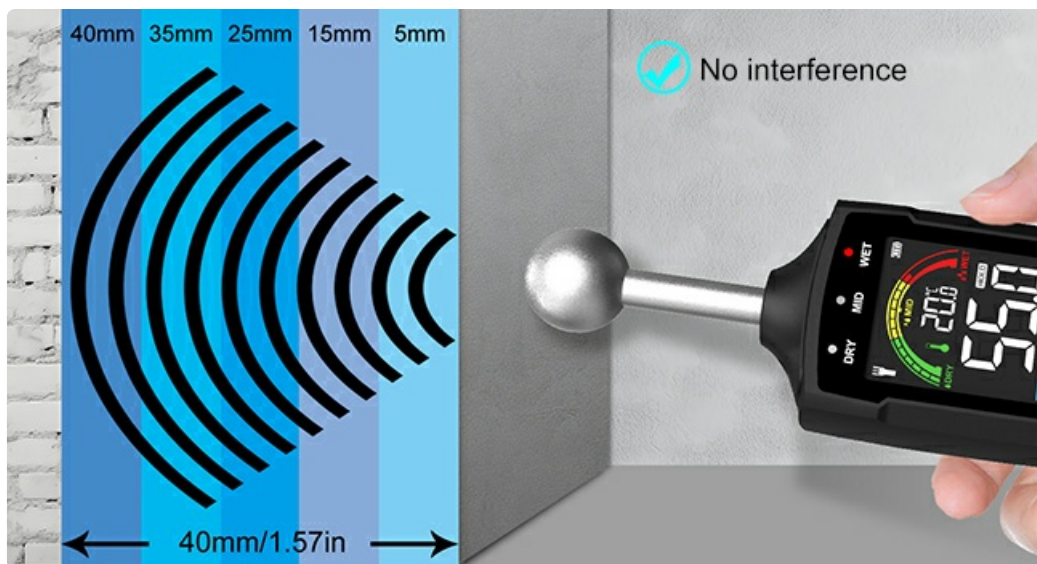


Image: Instructions on how to set the WET alarm threshold on the LASELION MS04, showing the display during the setting process.

4. Audible and Visual Alarms

The MS04 provides instant alerts for high moisture levels with both sound and light signals. Refer to the table below for moisture level indications:

Moisture Level	Wood	Cement	Gypsum (Mineral)
DRY	< 50	< 25	< 30
MID	50 ~ 80	25 ~ 50	30 ~ 60
WET	> 80	> 50	> 60

AUDIBLE AND VISUAL ALARM

With the pinless moisture meter, it only takes a few seconds to get an accurate moisture reading, and Instant alerts for high moisture levels with sound and light signals.

Moisture Level	Wood	Cement	Gypsum (Mineral)
• DRY	<50	<25	<30
• MID	50~80	25~50	30~60
• WET	>80	>50	>60



Image: The LASELION MS04 displaying moisture levels (DRY, MID, WET) with corresponding numerical ranges for wood, cement, and gypsum, indicating audible and visual alarm capabilities.

5. Max & Min Value Capture

The device can track and display the highest and lowest moisture readings during a measurement session. This feature is useful for thorough analysis and precise moisture monitoring.

WITH BUILT-IN FLASHLIGHT

Features a backlit LCD and a built-in flashlight for added visibility in dim conditions, assisting with measurements in challenging environments



Image: A hand holding the LASELION MS04, showing its display capturing and presenting maximum and minimum moisture values during a scan on a wooden cabinet.

6. Built-in Flashlight

The MS04 includes a built-in flashlight for added visibility in dim conditions, assisting with measurements in challenging environments.

HOW TO SETTING ALARM THRESHOLDS

Setting MID Alarm Threshold

Before calibrating, press the  key. Use the plus  and minus  keys to adjust the MID alarm threshold to the desired value (setting range 1-50, default value 30), then press the  key twice to exit the setting mode and complete the MID alarm threshold setup.



Image: The LASELION MS04 with its built-in flashlight illuminated, demonstrating its utility in dark or poorly lit areas.

MAINTENANCE

- Keep the device clean and dry. Wipe with a soft, damp cloth if necessary. Do not use abrasive cleaners or solvents.
- Store the device in its carrying case when not in use to protect it from dust and damage.
- Remove batteries if the device will not be used for an extended period to prevent battery leakage.
- Avoid exposing the device to extreme temperatures or direct sunlight.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries with new AAA batteries, ensuring correct polarity.
Inaccurate readings.	Device not calibrated; interference from metal/wires; measuring too close to edges.	Perform calibration away from any surface. Avoid measuring near metal objects or electrical wires. Ensure full contact with the surface.
Display is blank or flickering.	Low battery power.	Replace batteries.
Alarm not triggering.	Alarm thresholds set too high.	Adjust MID and WET alarm thresholds to appropriate levels as described in the Operating Instructions.

FACTORS AFFECTING DETECTION ACCURACY

Ideal Conditions: Wall Thickness 5-40mm for Best Accuracy



Image: Illustration showing factors affecting detection accuracy, including ideal conditions for wall thickness (5-40mm) and interference from metal or wires.

SPECIFICATIONS

- **Model:** MS04
- **Measurement Principle:** Pinless, Non-destructive
- **Measuring Depth:** 5-40mm
- **Power Source:** 3 x AAA Batteries (included)
- **Auto Power Off:** After 10 minutes of inactivity
- **Features:** Ball Probe, Customizable Humidity Alarms, Built-in Flashlight, Max/Min Value Display, Temperature Display
- **Item Weight:** 210 Grams
- **Package Dimensions:** 8.82 x 2.6 x 1.65 inches

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official LASELION website.

Manufacturer: Shenzhen Baisitu Technology Co., Ltd.

ADDITIONAL INFORMATION

Understanding Relative vs. WME Readings

Relative readings, used by the LASELION MS04, provide comparative moisture levels within the same material. By scanning a known dry area and comparing it to other sections, the device detects moisture differences, helping you identify potential problem areas. In contrast, WME (Wood Moisture Equivalent) readings measure the absolute moisture percentage in an object, typically used for wood-specific applications.

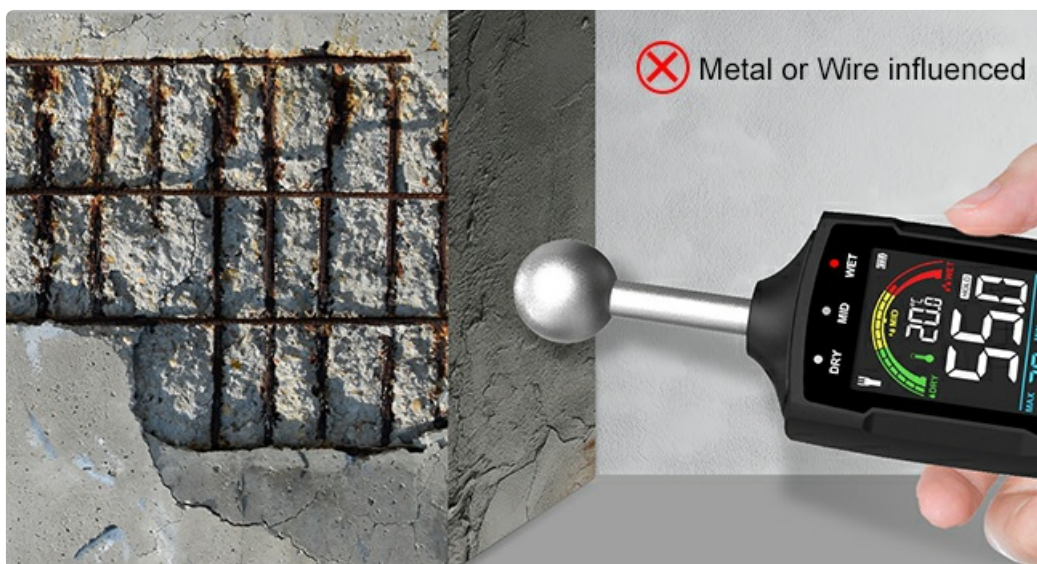


Image: Explanation of the difference between Relative and WME (Wood Moisture Equivalent) readings, with the LASELION MS04 shown in use on wood.

Why Choose a Ball-Tipped, Pinless Moisture Meter?

A ball-tipped, pinless moisture meter, like the LASELION MS04, is non-invasive, preserving the integrity of materials. Its design allows for quick and easy scanning of large areas, including corners and narrow spaces, without damaging surfaces. This is ideal for finished materials such as polished wood or painted walls, and helps detect hidden moisture during inspections or restorations.

MEASURE INTO CORNERS

The ball-shaped probe enables non-destructive moisture detection over wide areas, including tight corners and narrow spaces, helping identify hidden moisture that may cause leaks or mold.



Image: A hand holding the LASELION MS04, demonstrating its use on a wooden door frame, highlighting the non-invasive nature of the ball-tipped pinless design.

How Pinless Moisture Meters Work

Pinless moisture meters, such as the LASELION MS04, use electromagnetic waves to measure moisture beneath the surface. The ball sensor sends signals into the material, detecting moisture content at a certain depth without leaving any marks or causing damage.

AUTO SHUTDOWN FOR SUSTAINABILITY

Automatically powers off after 10 minutes of inactivity, conserving battery life and reducing unnecessary energy consumption.



Image: The LASELION MS04 in use on a tiled wall, illustrating how pinless moisture meters use electromagnetic waves to detect moisture without probes.

Pin vs. Pinless Moisture Meter

Pinless moisture meters, like the LASELION MS04, offer faster, non-invasive scanning over large areas without leaving any marks. Ideal for quick assessments, they allow you to scan a wide surface to detect moisture before pinpointing specific spots. Pin meters are more precise for measuring moisture content in specific areas but require physical contact and can leave small holes. If you need quick, broad moisture detection with minimal disruption, a pinless meter is the way to go.

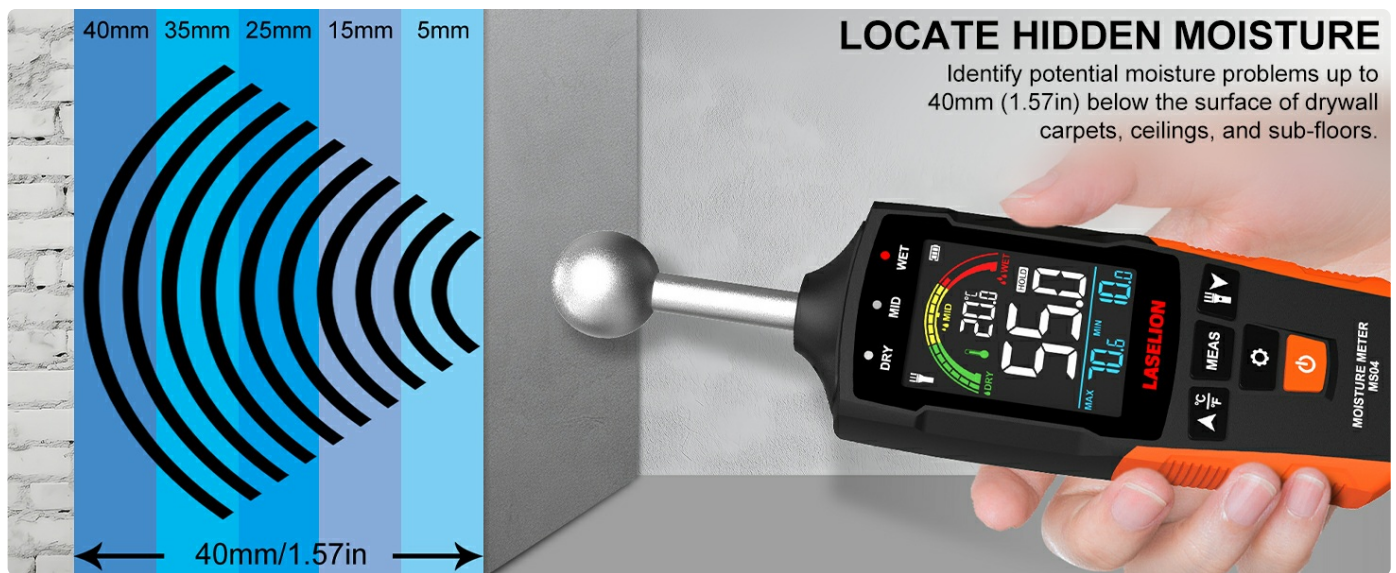


Image: A comparison illustrating the LASELION MS04 (pinless) detecting moisture on a wall versus a blurred image of a pin-type meter, emphasizing the non-destructive advantage.

Verifying Measurement Accuracy

To verify the accuracy of your readings, take multiple measurements at the same spot to ensure consistency. If the results are similar, the measurements are likely accurate. You can also test the LASELION MS04 on materials with known moisture content to validate its performance. For even more confidence, cross-check readings across different locations and materials. This ensures reliable and accurate results for all your moisture detection needs.

Q: Why choose a ball-tipped, pinless moisture meter?

A: A ball-tipped, pinless moisture meter, like the **LASELION MS04**, is non-invasive, preserving the integrity of materials. Its design allows for quick and easy scanning of large areas, including corners and narrow spaces, without damaging surfaces. Perfect for finished materials such as polished wood or painted walls, it also helps detect hidden moisture in walls and floors during inspections or restorations.



Image: The LASELION MS04 being used to measure moisture near a sink, illustrating the process of verifying measurement accuracy by taking multiple readings.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question