

Operating Instruction for Pinless Moisture Meter

1.Introduction

- This is the Pinless Moisture Meter, It is an electronic dampness indicator with a measuring process working on the principle of high frequency.
- The instrument is used for non-destructively tracing dampness in building materials of all kinds as well as for detecting damp distribution in walls , ceilings and floors.
- It is particularly suitable for pre-testing the readiness of building materials for covering prior to CM measurement.

2.Features

- Quickly indicate the moisture content of materials
- CM % measured function
- Depth of penetration about 20-40mm
- Measure and HOLD Function
- MAX/MIN display Function
- Alarm Function
- Low battery indication
- Auto Power Off
- White Backlighting LCD Display

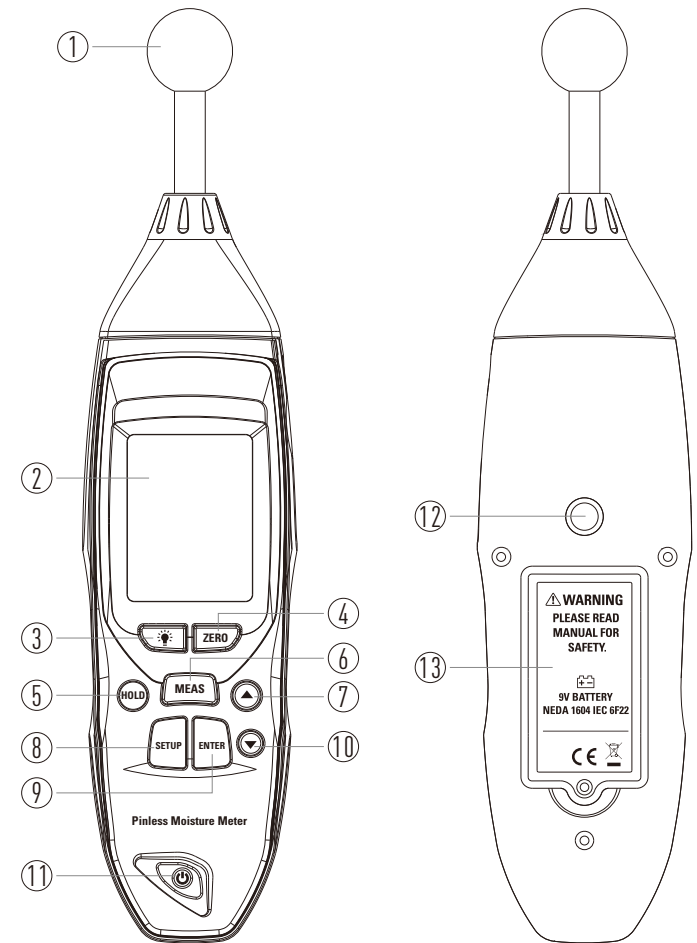
3.Specification

Measuring Range	0.0 to 100.0
Penetration Depth	20 to 40mm
Resolution	0.1
Battery	9V Battery

4.Description

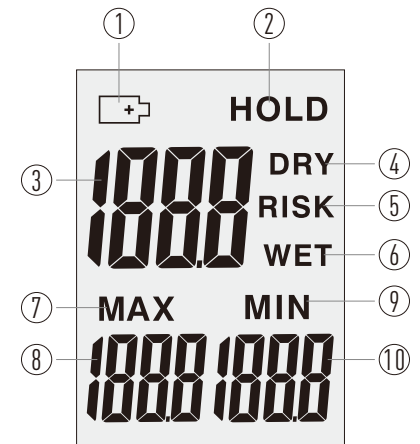
4-1.Meter Description

- 1-Moisture Sensor
- 2-LCD Display
- 3-Backlight Button
- 4-ZERO Button
- 5-Data Hold Button
- 6-MEAS Button
- 7-Up Button
- 8-Setup Button
- 9-Enter Button
- 10-Down Button
- 11-Power Button
- 12-Tripod Mounting Screw
- 13-Battery Cover



4-2.Symbols Used on LCD Display

- 1-Low Battery Indication
- 2-Data Hold Symbol
- 3-Current Moisture Value
- 4-DRY Status Symbol
- 5-RISK Status Symbol
- 6-WET Status Symbol
- 7-MAX Symbol
- 8-MAX Moisture Value
- 9-MIN Symbol
- 10-MIN Moisture Value



5.Operation

- Turn the meter On by pressing the **Power** Button, press the **MEAS** Button to start measuring.
- User press the **MEAS** Button for the first time when the meter is turn on, please hold the meter up so that the ball sensor is in the air, not covered by your hand or any surface or object for 8 to 10cm distance.
- Press the **ZERO** Button, the LCD will display “**CAL**” indication and then moisture value display in LCD, the value must below **0.5**, if not, please turn meter on over again and repeat hereinbefore operation, then the meter start to measuring the object.
- Press the **HOLD** Button again, the moisture measurement shall latch on the display for 50 sec, the **HOLD** symbol will displayed, after 50 sec, the meter will auto turn off.
- In the measurement state, pressing the **ZERO** Button will clear the current value.

Note: When you turn meter on once, you must calibrate once, and if you move meter from one place to another place, you must calibrate once.

Note: If the ball head in corners, it maintain a minimum distance of 8 to 10cm from corner ares.

Note: The ball head must be kept perpendicular to the measured material during the measurement, pressed firmly against the surface and not slanted.

Note: In the case of material thicknesses of less than 20mm,there is the danger that moisture values, maybe the values is not correct.

Note: If “” appears in the display, the battery should be replaced.

6.Alarm Set Mode

- Press the **SETUP** Button will enter the alarm set mode when the meter is already in data hold mode, the “**RISK**” icon appears on the LCD, you can use the **Up** and **Down** Button to adjust the threshold.
- Press the **ENTER** Button shall save the alarm setting, then “**WET**” icon appears on the LCD, you can use the **Up** and **Down** Button to adjust the threshold.
- Press the **ENTER** Button shall save the alarm setting and then the meter back to the Data Hold Mode, if the moisture measurement is higher than the RISK alarm setting.
- It shall beep once every 2sec, if the Moisture measurement exceeded the WET alarm setting, it shall beep four time every 1sec.

Note: The RISK value is adjust 0 to 50, the default value is 30; The WET value is adjust 50 to 100, the default value is 60.

7.Backlighting

- Press the **Backlight** Button to switch the backlighting on or off when the meter is in the data hold mode.
- The displayed shall be backlit with a series of white LEDs.

8.Moisture Table of Comparison

Construction Material	Display	Moisture Status
Gypsum	<30	DRY
	30 to 60	RISK
	>60	WET
Cement	<25	DRY
	25 to 50	RISK
	>50	WET
Wood	<50	DRY
	50 to 80	RISK
	>80	WET