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Proster PST199-P

Proster Pinless Wood Moisture Meter (Model PST199-P) Instruction Manual

Brand: Proster | Model: PST199-P

1. INTRODUCTION

Thank you for choosing the Proster Pinless Wood Moisture Meter. This device is designed for non-destructive detection of moisture content in various materials such as hardwood, softwood, wallboard, and masonry. Its pinless design protects surfaces while providing accurate readings up to 3/4 inch (19 mm) below the surface. This manual provides detailed instructions for safe and effective use of your moisture meter.

Package Contents:

- Proster Pinless Wood Moisture Meter (Model PST199-P)
- 9V Battery
- Storage Bag
- User Guide (this manual)



Image 1.1: Proster Pinless Wood Moisture Meter, 9V battery, and storage bag.

This image displays the main components included with the Proster Pinless Wood Moisture Meter: the meter itself, a 9V battery, and a protective storage bag.

2. SAFETY INFORMATION

Please read all safety warnings and instructions before using this product to ensure safe operation and prevent damage to the device or injury.

General Safety:

- Do not attempt to modify or disassemble the device.
- Keep the device away from water and high humidity environments to prevent damage.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Do not use the device near strong electromagnetic fields.
- This device is not a toy. Keep out of reach of children.

Battery Safety:

- Use only the specified 9V alkaline battery.
- Ensure correct polarity when installing the battery.
- Remove the battery if the device will not be used for an extended period to prevent leakage.
- Dispose of used batteries according to local regulations. Do not incinerate.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and display of your Proster Pinless Wood Moisture Meter.



Image 3.1: Front Panel and Display.

This image highlights the key features on the front of the moisture meter, including the backlit LCD screen, the MODE, HOLD, and Power buttons, and the 3-color LED bar graph for moisture level indication.

Key Components:

- **LCD Display:** Backlit color screen showing moisture percentage, material mode, and other indicators.
- **LED Bar Graph:** 3-color (Green, Yellow, Red) visual indicator for moisture levels (Dry, Mid, Wet).
- **MODE Button:** Selects material type (Wall, Masonry, Soft Wood, Hard Wood).
- **HOLD Button:** Freezes the current reading on the display.
- **Power Button:** Turns the device on or off.
- **Sensor Panel:** Located on the back, used for non-destructive moisture detection.
- **Flashlight:** Built-in light for use in low-light conditions.

Non-destructive measurement

Portable measurement, Simple operation
Close to the tested product, easily get
the moisture content

Sensor panel



Can measure moisture up to 19 mm below the surface of powdery walls, masonry, hardwood and softwood.



Image 3.2: Sensor Panel Location.

This image illustrates the location of the sensor panel on the back of the moisture meter, which is crucial for its non-destructive measurement capability.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.

2. Slide or unclip the cover to open the compartment.
3. Insert the provided 9V battery, ensuring the correct polarity (+ and - terminals match).
4. Close the battery compartment cover securely.

The device is now ready for use.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To turn on: Press the **Power** button  once. The LCD will light up.
- To turn off: Press and hold the **Power** button for approximately 2 seconds. The device features an auto-power-off function to conserve battery if inactive for a period.

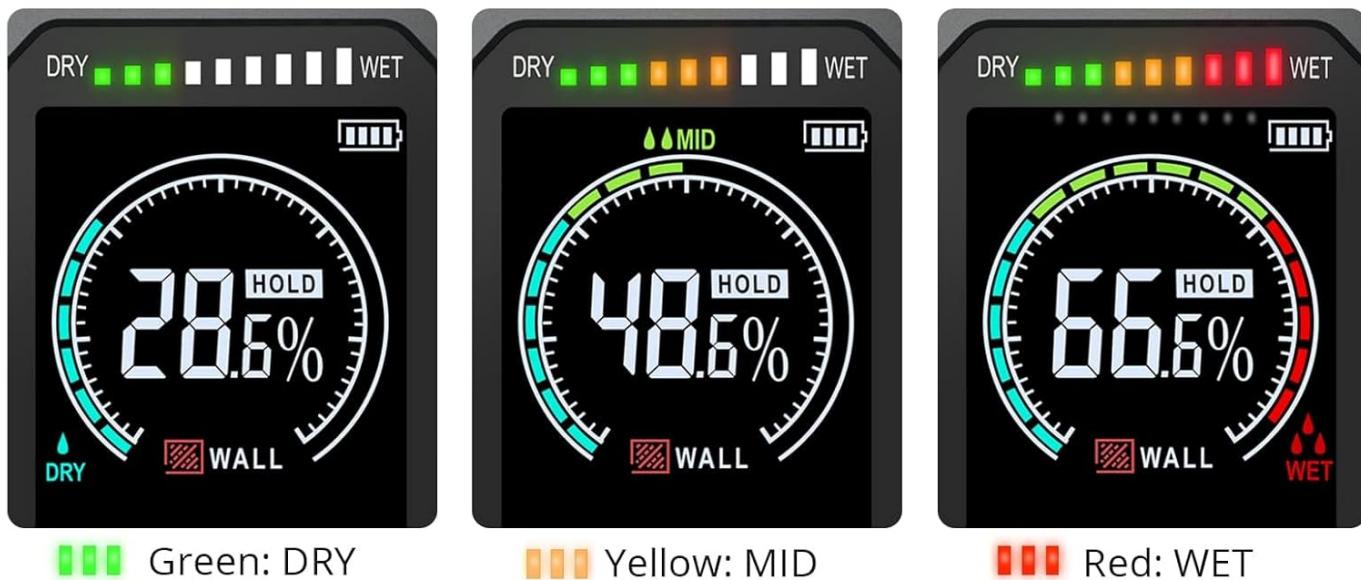
5.2 Material Mode Selection

The meter has different modes for various materials. Press the **MODE** button to cycle through the options:

- **WALL:** For wallboard and similar materials. (Range: 5-70%)
- **MASONRY:** For brick, concrete, and other masonry. (Range: 5-70%)
- **SOFT WOOD:** For softwoods. (Range: 5-75%)
- **HARD WOOD:** For hardwoods. (Range: 5-75%)

Visual Humidity Alert

3 colored LEDs roughly mirror the reading in bar graph format



Humidity alarm comparison table

| Moisture Level | Wall (0%-70%) | Masonry (0%-70%) | Soft Wood (5%-75%) | Hard Wood (5%-75%) |
|----------------|---------------|------------------|--------------------|--------------------|
| DRY | 0%-41.9% | 0%-41.9% | 5%-19.9% | 5%-11.9% |
| MID | 42%-52.9% | 42%-52.9% | 20%-25.9% | 12%-15.9% |
| WET | ≥53% | ≥53% | 26%-75% | 16%-75% |

Image 5.1: Material Mode Selection and Display.

This image demonstrates how the meter's display changes to indicate the selected material mode (Wall, Masonry, Soft Wood, Hard Wood) and the corresponding moisture level.

5.3 Taking Measurements

1. Select the appropriate material mode using the **MODE** button.
2. Place the sensor panel (on the back of the meter) flat against the surface of the material you wish to measure. Ensure full contact.
3. For accurate readings, place your finger on the rubber grip area on the side of the meter.
4. The moisture percentage will be displayed on the LCD screen. The 3-color LED bar graph will also indicate the moisture level (Green for Dry, Yellow for Mid, Red for Wet).
5. Move the meter across the surface to scan for variations in moisture content.

Read the Highest Humidity Value: 15%

Ensure that the Depth of the Object to Be Measured Must Be Greater than 19 mm

Tips:

For Accurate Measurements,
Please Place Your Finger on
the Rubber Grip.



Image 5.2: Proper Measurement Technique.

This image demonstrates the correct way to hold the moisture meter against a surface, ensuring the sensor panel makes full contact and illustrating the measurement depth of up to 19mm (0.75 inches).

Important: The meter detects moisture up to 19 mm (0.75 inches) below the surface. Ensure the object's depth is greater than this for reliable readings. Avoid measuring near metal objects (screws, nails, pipes) as they can affect accuracy.



**Correct Measurement
Results in Accurate
Humidity Values**



**Metal, Screws, Nails, etc.
Can Affect the Accuracy
of the Measurement**

Image 5.3: Measurement Accuracy Considerations.

This image visually compares a correct measurement on a brick wall with an incorrect measurement near metal, screws, or nails, emphasizing that metal can interfere with accurate readings.

5.4 Interpreting Readings and Alarms

The meter provides both visual and audible indications of moisture levels.

- **Visual LED Alarm:**

- **Green LEDs:** Indicate a dry moisture level.
- **Yellow LEDs:** Indicate a moderate moisture level.
- **Red LEDs:** Indicate a wet moisture level.

- **Audible Alarm:** The meter will emit a high-pitched tone when moisture content exceeds certain thresholds:

- Wood: Above 16% moisture content.
- Drywall/Masonry: More than 53% wet.

With Flashlight

Moisture content can be accurately measured at night or in low light, more convenient.



Image 5.4: Audible Out-of-Range Alarm.

This image shows the meter's display indicating a moisture reading of 28.6% on a wall, accompanied by an icon representing the audible alarm, which activates when moisture levels exceed predefined thresholds for wood or masonry.

5.5 Hold Function

Press the **HOLD** button to freeze the current reading on the display. This is useful for taking readings in hard-to-reach areas where direct viewing of the screen is difficult. Press the **HOLD** button again to release the reading and resume live measurement.

5.6 Flashlight Function

The built-in flashlight can be activated to assist with measurements in dimly lit environments. Refer to the product overview for the flashlight button location (often integrated with the power button or a separate dedicated button).

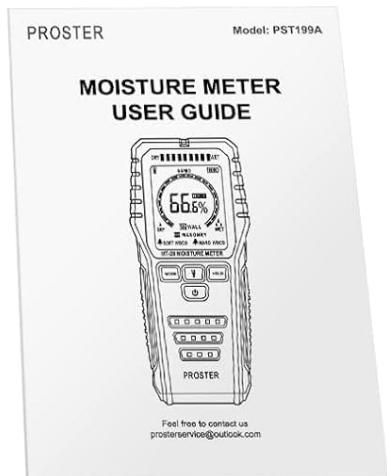
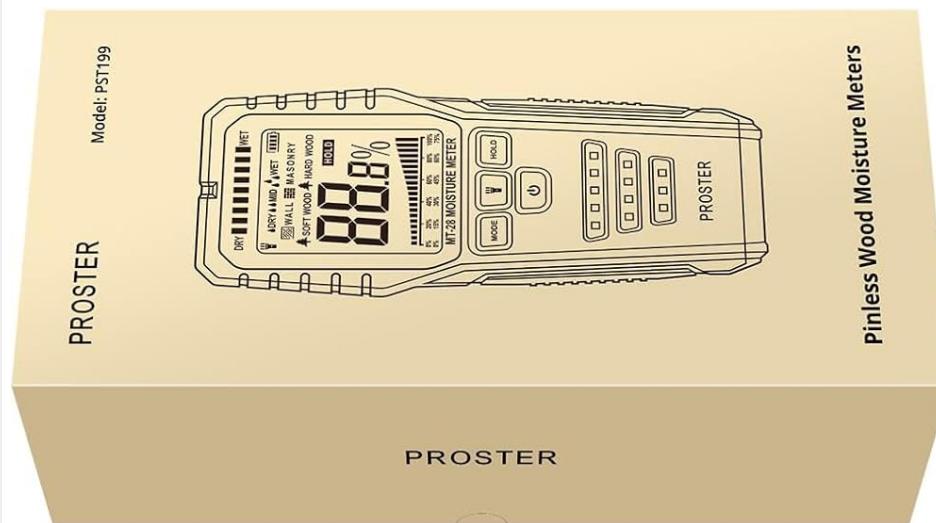


Image 5.5: Flashlight in Use.

This image demonstrates the integrated flashlight feature of the moisture meter, highlighting its utility for taking accurate measurements in low-light conditions.

6. MAINTENANCE

- Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Storage:** Store the meter in its protective storage bag in a cool, dry place when not in use. Remove the battery if storing for extended periods.
- Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display.

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device does not power on. | Battery is dead or incorrectly installed. | Check battery polarity or replace with a new 9V battery. |
| Inaccurate or inconsistent readings. | <ul style="list-style-type: none"> Incorrect material mode selected. Sensor not making full contact. Measurement near metal objects. Material depth is too shallow. | <ul style="list-style-type: none"> Select the correct material mode. Ensure the sensor panel is flat against the surface. Move away from metal objects. Ensure material depth is at least 19mm (0.75 inches). |
| Audible alarm constantly sounds. | High moisture content detected. | This indicates a genuinely wet area. Continue scanning to identify the extent of moisture. |
| Display is dim or flickering. | Low battery. | Replace the 9V battery. |

8. SPECIFICATIONS

| Feature | Detail |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Model Number | PST199-P |
| Measurement Principle | Electromagnetic Induction (Pinless, Non-destructive) |
| Measurement Depth | Up to 19 mm (0.75 inches) below surface |
| Material Modes & Ranges | <ul style="list-style-type: none"> Wall/Masonry: 5% - 70% Soft Wood: 5% - 75% Hard Wood: 5% - 75% |
| Display | Backlit Color LCD with 3-color LED bar graph |
| Alarms | Visual (LEDs) and Audible (Beeper for out-of-range) |
| Functions | HOLD, Auto Power-Off, Flashlight |
| Power Source | 1 x 9V Alkaline Battery (included) |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Product Dimensions | Approximately 1.57"W x 1.57"H (Note: This dimension may be partial) |
| Item Weight | 270 Grams (9.5 ounces) |

9. WARRANTY AND SUPPORT

Proster products are designed for reliability and performance. For warranty information or technical support, please refer

to the contact details provided with your purchase or visit the official Proster website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact Proster customer service at proster-uk@outlook.com.

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Related Documents - PST199-P

0.0.0.0
Our K-type thermocouple can measure -200 °C to 1300 °C in short time. The measurement is very accurate and stable. The measurement range is from -200 °C to 1300 °C. Make a purchase the appropriate K-type thermocouple by Proster.

A. Introduction

The thermocouple is one of the most commonly used industrial elements in the measurement of temperature. It consists of two different metals joined at a junction where the current generated from the temperature difference between the two metals is measured. The temperature difference between the thermocouple tip and reference end of the thermocouple, the thermoelectric potential, is measured and converted into a digital signal and displayed on the thermometer. On the measurement and long distance transmission, the signal is converted into a digital signal.

This device is able to measure the temperature of the heat source and liquid. It can measure the temperature of the heat source and liquid with a higher range than those of ordinary thermometers and also thermometers. It is suitable for use in industrial environments where the temperature is high and noisy as well as the temperature measurement for liquid hydrogen and liquid nitrogen.

B. Features

- 1. High accuracy: due to the high resolution of the measured without interference which affects the final output.
- 2. Low cost: due to the low cost of the device.
- 3. One Celsius and Fahrenheit unit.
- 4. High resolution: due to the high resolution of the device.
- 5. Human centered design, easy operation.
- 6. The measurement range is from -200 °C to 1300 °C and combinations of T1 and T2 to measure the thermocouple of J,K,T,E,N and R type.
- 7. To measure the thermocouple of J,K,T,E,N and R type.
- 8. The electrical compensation function provides the compensation to the thermocouple error as well as the temperature measured.

[Proster PST095 Digital Thermometer Instruction Manual](#)

User manual for the Proster PST095 dual-channel digital thermometer, detailing its features, operation, specifications, and safety warnings for various thermocouple types.