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> [Proster 2-in-1 Moisture Meter \(Model PST243-US\) Instruction Manual](#)

Proster PST243-US

Proster 2-in-1 Moisture Meter (Model PST243-US) Instruction Manual

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Proster 2-in-1 Moisture Meter. This device is designed to accurately measure moisture content in various materials, including wood and building materials, using both pin and pinless measurement modes. It also features ambient temperature measurement and an LCD backlight for clear readings.

SAFETY INFORMATION

- Always handle the device with care.
- Keep the device away from water and high humidity environments to prevent damage.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- When using the pin mode, be cautious of the sharp pins to avoid injury. Keep the protective cap on when not in use.
- Dispose of batteries according to local regulations.

PRODUCT FEATURES

- **Dual Measurement Modes:** Offers both pin and pinless (non-invasive) measurement for versatility. The pinless mode prevents damage to surfaces, ideal for finished wood and delicate materials. The pin mode provides faster response and higher accuracy for various wood types and building materials.
- **High Precision:**
 - Pin Mode: Wood moisture 6-60% ($\pm 2\%$ accuracy); Building materials 0-33% ($\pm 2\%$ accuracy).
 - Pinless Mode: Wood moisture 0-60% ($\pm 4\%$ accuracy); Building materials 0-33% (relative readings).
- **Ambient Temperature Measurement:** Measures ambient temperature from 0°C to 40°C (32°F to 104°F) with an accuracy of $\pm 2^\circ\text{C}/\pm 4^\circ\text{F}$.
- **Clear Readability:** Features a color backlit LCD display, data hold function, and a signal bar display for easy interpretation of results.
- **Wide Application:** Suitable for measuring moisture in wood, concrete, cement, plaster, and other

building materials.

- **Automatic Power-Off:** The device automatically shuts off after 5 minutes of inactivity to conserve battery life.

PACKAGE CONTENTS

Verify that all items listed below are present and in good condition upon opening the package.



Image: Contents of the Proster 2-in-1 Moisture Meter package, showing the meter, a 9V battery, a black carrying pouch, and the user manual.

- Proster 2-in-1 Moisture Meter (Model PST243-US)
- 9V Battery
- Protective Cap for Pins
- Carrying Pouch
- User Manual

SETUP

Battery Installation

1. Locate the battery compartment on the back of the device.
2. Slide open the battery compartment cover.
3. Insert the included 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Buzzer Alarm



Image: Detailed view of the moisture meter, highlighting the protective cap, pins, pinless sensor, and battery case.

OPERATING INSTRUCTIONS

Power On/Off

Press the **Power On/Off / Wood Density Button** (labeled with a power symbol and "DENSITY") to turn the device on or off.

Selecting Measurement Mode (Pin / Pinless)

The meter offers two measurement modes: Pin Measurement Mode and Pinless Measurement Mode.

2 Measurement Modes



Image: The moisture meter demonstrating its two measurement modes: Pin Measurement Mode (top) for direct contact and Pinless Measurement Mode (bottom) for non-invasive scanning.

1. Press the **Pin/Pinless Mode Switch Button** (labeled "MODE") to toggle between the two modes.
2. In **Pin Measurement Mode**, remove the protective cap and gently insert the pins into the material to be measured.
3. In **Pinless Measurement Mode**, place the back of the device (where the pinless sensor is located) flat against the surface of the material.

Selecting Material Type (Wood / Building Material)

Press the **Wood/Building Material Switch Button** (labeled "BLD") to select between wood and building material measurement. The display will indicate the selected material type.

2 Material Measurement Modes

Wood

Range:

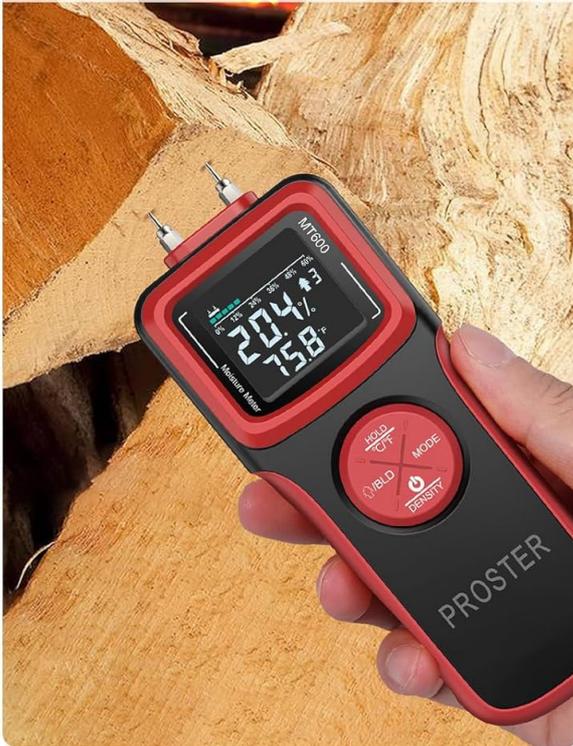
Pin Mode: 6-60%

Pinless Mode: 0-60%

Accuracy:

Pin: $\pm 2\%$; Pinless: $\pm 4\%$

Temperature: 0°C - 40°C (32°F - 104°)



Building Material

Range:

Pin&Pinless Mode: 0-33%

Accuracy:

Pin: $\pm 2\%$; Pinless: Relative Readings

Temperature: 0°C - 40°C (32°F - 104°)



Image: The moisture meter displaying measurements for wood (left) and building material (right), showing the different measurement ranges and accuracies for each.

Wood Density Grades

The meter supports 9 different wood density grades for more accurate wood moisture measurements. Press the **Wood Density Button** (same as Power On/Off button) to cycle through the density grades.

Temperature Measurement ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)

The device measures ambient temperature. Press the **Data Hold and $^{\circ}\text{C}/^{\circ}\text{F}$ Switch Button** (labeled "HOLD $^{\circ}\text{C}/^{\circ}\text{F}$ ") to switch between Celsius and Fahrenheit units for temperature display.

Data Hold Function

To freeze the current measurement on the display, press the **Data Hold and $^{\circ}\text{C}/^{\circ}\text{F}$ Switch Button** (labeled "HOLD $^{\circ}\text{C}/^{\circ}\text{F}$ "). Press it again to release the hold function.

Buzzer Alarm

The device features an audible buzzer alarm to indicate high moisture levels.



Image: The moisture meter indicating a buzzer alarm when moisture measurements exceed 20% in building material mode (left) and 16% in wood mode (right).

- In Building Material Mode, the alarm sounds when measurements exceed 20%.
- In Wood Mode, the alarm sounds when measurements exceed 16%.

MEASUREMENT RANGES AND ACCURACY

Measurement Specifications

Parameter	Range	Accuracy	Resolution
Wood Moisture (Pin Mode)	6% - 60%	±2%	0.1%
Building Material Moisture (Pin Mode)	0% - 33%	±2%	0.1%
Wood Moisture (Pinless Mode)	0% - 60%	±4%	0.1%
Building Material Moisture (Pinless Mode)	0% - 33%	Relative Readings	0.1%

Parameter	Range	Accuracy	Resolution
Ambient Temperature	0°C - 40°C (32°F - 104°F)	±2°C / ±4°F	0.1°C

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the battery to prevent leakage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the protective cap is on the pins.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display.

TROUBLESHOOTING

Device does not power on:

Check if the 9V battery is installed correctly with the correct polarity. Ensure the battery has sufficient charge. Replace the battery if necessary.

Inaccurate readings:

Ensure the correct measurement mode (pin or pinless) and material type (wood or building material) are selected. For wood, verify the correct density grade is set. Ensure good contact with the material surface, especially in pinless mode.

Display is dim or unreadable:

The battery might be low. Replace the 9V battery. Ensure the backlight is enabled if available.

SPECIFICATIONS

Product Specifications

Feature	Detail
Model Number	PST243-US
Power Supply	1 x 9V Battery (included)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	0-90% RH
Storage Temperature	0°C to 40°C (32°F to 104°F)
Automatic Shut-off	After 5 minutes of inactivity
Display Type	LCD with Backlight
Weight	167.2 Grams
Dimensions (Package)	21.9 x 8.9 x 5.3 cm

WARRANTY AND SUPPORT

For warranty information and 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 any warranty claims.