

## Proster MT93

# Proster MT93 Rechargeable Pin-Type Moisture Meter User Manual

Accurate Moisture Detection for Wood, Walls, and Building Materials

## 1. INTRODUCTION

The Proster MT93 Rechargeable Pin-Type Moisture Meter is a versatile tool designed for fast and accurate detection of moisture content in various materials. Featuring a tri-colour display with visual and sound alerts, it is suitable for professional and home use to identify dampness in timber, walls, cement, and other building materials. This manual provides essential information for the proper use and maintenance of your device.



Figure 1: Proster MT93 Moisture Meter and Accessories

## 2. PACKAGE CONTENTS

Upon opening your package, please verify that all the following items are included:

- 1x Proster MT93 Moisture Meter
- 1x Storage Bag
- 2x Replaceable Probes
- 1x Wrench for Probe Replacement
- 1x Type-C Charging Cable
- 1x User Manual



Figure 2: Included Package Contents

### 3. PRODUCT OVERVIEW

The Proster MT93 features a large, easy-to-read tri-colour LCD display that clearly indicates moisture levels. The device is equipped with high-precision pins for direct material penetration and accurate readings. Its ergonomic design ensures comfortable handling during use.

#### Key Features:

- **Tri-Colour Display:** Visual indication of moisture levels (Dry, Risk, Wet).
- **Four Measurement Modes:** Dedicated modes for Packing materials, Building materials, Soft Wood, and Hard Wood.
- **Data Hold Function:** Freezes the current reading on the display for easy recording.
- **Audible & Visual Alarms:** Alerts when moisture levels exceed predefined thresholds.
- **Rechargeable Battery:** Integrated battery with Type-C charging.
- **Auto Shut-Off:** Powers off automatically after 5 minutes of inactivity to conserve battery.

### 4. SETUP AND CALIBRATION

#### 4.1 Initial Charging

Before first use, ensure the moisture meter is fully charged. Connect the provided Type-C charging cable to the meter's charging port and a suitable USB power source. The battery indicator on the display will show charging status.



Figure 3: Charging the Moisture Meter

#### 4.2 Powering On/Off

Press the **Power** button (usually marked with a power symbol) to turn the device on. To turn off, press and hold the **Power** button, or the device will automatically shut off after 5 minutes of inactivity.

#### 4.3 Self-Test Calibration

It is recommended to perform a self-test calibration before each use to ensure accuracy. The self-test reading should be within the range of 21.3%–22.3% in PACKING mode, indicating the instrument is functioning normally.

1. Press the **HOLD** button for approximately 5 seconds until the screen displays "CAL".
2. Insert the pins into the holes at the top of the protective cover. The display should show a reading within the specified calibration range.





Figure 4: Performing Self-Test Calibration

## 5. OPERATION

### 5.1 Selecting Measurement Modes

The MT93 offers four distinct measurement modes to ensure accurate readings for different material types. Press the corresponding mode button to select:

- **PACKING:** For easily absorbent packing materials like corrugated cardboard, paper, and cloth.
- **BUILDING:** For general building materials such as cement, plaster, and brick.
- **SOFT WOOD:** For soft, low-density woods (coniferous wood).
- **HARD WOOD:** For hard, higher-density woods (broadleaf wood).



Figure 5: Four Measurement Modes

## 5.2 Taking Measurements

After selecting the appropriate mode, carefully remove the protective cap from the pins. Firmly press the pins into the material you wish to measure. The moisture content percentage will be displayed on the screen. Ensure the pins penetrate sufficiently for an accurate reading.

## 5.3 Data Hold Function

To retain a measurement on the display, press the **HOLD** button while the pins are still inserted into the material. Press the **HOLD** button again to release the reading and resume live measurement.

## 5.4 Audible and Visual Alerts

The meter provides both audible beeps and visual alerts on its tri-colour display to indicate moisture levels:

- **Green (DRY):** Indicates low moisture content.
- **Yellow (RISK):** Indicates moderate moisture content, suggesting potential issues.
- **Red (WET):** Indicates high moisture content, requiring immediate attention.

An audible alarm will sound when the moisture level exceeds the 'WET' threshold for the selected material type.



## 6. MEASUREMENT RANGES AND ACCURACY

The Proster MT93 offers precise measurement capabilities across various materials:

- **Packing Material:** 6% ~ 61.2%
- **Building Material:** 0.4% ~ 31.3%
- **Soft Wood:** 5.7% ~ 56.1%
- **Hard Wood:** 3.9% ~ 35.3%

Measurement Accuracy:  $\pm 0.5\%$



Figure 6: Display and Measurement Ranges

## 7. CARE AND MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the instrument in a stable, dust-free environment, away from direct sunlight and extreme temperatures. Always replace the protective cap over the pins to prevent damage and injury.
- **Probe Replacement:** If the measurement pins become dull or damaged, they can be replaced using the provided wrench and spare probes. Ensure the device is powered off before attempting

replacement.

- **Battery Care:** Recharge the battery when the low battery icon appears on the display or if the device cannot be switched on.

## 8. SPECIFICATIONS

Feature	Detail
Manufacturer	Proster Trading Limited
Item Weight	9.6 ounces
Package Dimensions	7.64 x 3.43 x 1.85 inches
Item Model Number	PST276-US (MT93)
Power Source	Rechargeable DC (Type-C)
Included Components	Moisture Meter; Storage bag; Manual; Charging Cable
Date First Available	March 27, 2025

## 9. TROUBLESHOOTING

If you encounter any issues with your Proster MT93 Moisture Meter, please consider the following general troubleshooting steps:

- **No Power:** Ensure the battery is fully charged.
- **Inaccurate Readings:** Verify that the correct measurement mode is selected for the material being tested. Perform a self-test calibration. Check if the pins are clean and undamaged; replace if necessary.
- **Display Issues:** If the display is dim or flickering, the battery may be low and require charging.

For persistent issues, please contact Proster customer support.

## 10. WARRANTY AND SUPPORT

Proster products typically come with a warranty. Please refer to the warranty information provided in your package or contact Proster customer service for details regarding your specific product. For technical support or further assistance, visit the official Proster website or contact their support team directly.





