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> PM6811 PM6811A Wood Moisture Meter Moisture Tester Wood Moisture Meter Digital Wall Moisture Content Tester for Measuring Moisture Content in Wood Cardboard and Flooring(PM6811), Orange

## PEAKMETER EC-PM6811

# PEAKMETER PM6811 Wood Moisture Meter User Manual

Model: EC-PM6811

## 1. INTRODUCTION

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The PEAKMETER PM6811 Wood Moisture Meter is a high-sensitivity digital instrument designed for accurately measuring moisture content in various materials such as wood, cardboard, and flooring. It features temperature compensation, multiple wood species selection, and a clear LCD display with backlight for intuitive readings. This manual provides detailed instructions for the proper use and maintenance of your device.



Figure 1.1: PEAKMETER PM6811 Wood Moisture Meter in use, held in hand.

## 2. KEY FEATURES

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- High Sensitivity Probe with Temperature Compensation.
- Measures moisture content up to 99.9%.
- Data Hold function to freeze LCD readings.
- Backlight for improved visibility in low light conditions.
- Automatic power-off to conserve battery life.
- Low-battery indication.
- Four selectable wood species types for accurate measurements.
- Compact and portable design with a large LCD screen.



Figure 2.1: Overview of the PM6811's key features including fast response time and environmental detection.

### 3. PRODUCT COMPONENTS

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Familiarize yourself with the main components of the PM6811 moisture meter:



Figure 3.1: Labeled diagram of the PM6811 showing the high-sensitivity metal probe, LCD screen, protective cover, species selection/temperature switch button, power button, and backlight/mode button.

1. **High-sensitivity Metal Probe:** Used for inserting into the material to measure moisture content.
2. **LCD Screen with Backlight:** Displays measurement readings, battery status, and mode indicators.
3. **Protective Cover:** Protects the metal probes when the device is not in use.
4. **Power Button (HOLD):** Turns the device on/off and activates the data hold function.
5. **Species Selection / Temperature Switch Button (°F/°C):** Allows selection of wood species groups and toggles between Fahrenheit and Celsius temperature units.
6. **Backlight / Mode Button (MODE):** Activates/deactivates the backlight and cycles through measurement modes (wood, paper, wall).

## 4. SETUP

### 4.1 Battery Installation

The PM6811 requires 2 AAA batteries (not included). Follow these steps to install them:

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



Figure 4.1: Battery compartment showing placement for 2 AAA batteries.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off

- To power on the device, press the **HOLD** button.
- To power off the device, press and hold the **HOLD** button for a few seconds until the display turns off. The device also features an automatic shutdown function after approximately 5 minutes of inactivity.

### 5.2 Mode Selection

The PM6811 supports different measurement modes for various materials. Press the **MODE** button to cycle through the following

options:

- **Wood:** For measuring moisture content in wood.
- **Paper:** For measuring moisture content in paper and cardboard.
- **Wall:** For measuring moisture content in walls (e.g., drywall, plaster).

### 5.3 Wood Species Selection

For accurate wood moisture measurements, select the appropriate wood species group. Press the °F/°C button to cycle through the four wood species types (1, 2, 3, 4). Refer to the "Tree Species Type Comparison Table" in the Specifications section for details on which wood types belong to each group.

### 5.4 Taking a Measurement

1. Ensure the device is powered on and the correct mode (Wood, Paper, or Wall) is selected.
2. Remove the protective cover from the metal probes.
3. Carefully insert the metal probes into the material you wish to measure. Ensure good contact.
4. Read the moisture content percentage displayed on the LCD screen.
5. To hold the current reading on the display, briefly press the **HOLD** button. Press it again to release.
6. After measurement, replace the protective cover to prevent damage to the probes.

Functional parameters				
Model number	PM6811			
Function	Measurement range	Resolution	Error	Description
Moisture content	2.0~40.0%	0.10%	± 2%	Tree species1:2.0~25.0% Tree species2:3.0~30.0% Tree species3:4.0~35.0% Tree species4:5.0~40.0%
Temperature	(-20°C~100°C)	0.1°C	± 0.5°C	Temperature
Humidity	0~100%RH	0.1%RH	± 5%RH	Relative humidity
Characteristics	Description			
Display	Maximum reading 99.9%			
Data hold	Maintains LCD display			
Backlight	White color, manually switch on or off, automatically turns off after approximately 15 seconds			
Automatic shutdown	Automatically on by default, manually adjustable to off, and automatically shuts down after approximately 5 minutes of inactivity			
Low voltage indication	When the voltage drops below 2.4V, the LCD will display a low voltage symbol, indicating that the batteries need to be replaced			
Overall dimensions	136mm*54mm*28mm			
Weight	approximately 130g (without batteries)			
Power supply	AAA*2 batteries			

Figure 5.1: The PM6811 in a woodworking environment, ready for moisture measurement.

### 5.5 Backlight Control

The LCD backlight improves readability in dim conditions. Press the **MODE** button briefly to toggle the backlight on or off. The backlight automatically turns off after approximately 15 seconds to save battery.



Figure 5.2: The display changes color to indicate moisture levels: green for low, yellow for medium, and red for high.

The backlight color indicates the moisture level:

- **Green:** Low moisture content.
- **Yellow:** Medium moisture content.
- **Red:** High moisture content.

## 6. MAINTENANCE

- Always replace the protective cover over the probes when the meter is not in use to prevent damage and injury.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- If the device will not be used for an extended period, remove the batteries to prevent leakage.
- Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery polarity.	Replace batteries with new ones; ensure correct +/- orientation.
Inaccurate readings.	Incorrect mode selected; probes not fully inserted; material too dense/hard for probes; probes dirty or damaged.	Select correct material mode; ensure probes are fully inserted; clean probes; check for probe damage.
Display is dim or flickering.	Low battery.	Replace batteries.
Auto-off activates too quickly.	Normal operation (5 minutes inactivity).	This is a power-saving feature. Power on again to continue use.

## 8. SPECIFICATIONS

Feature	Details
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Feature	Details
Model Number	EC-PM6811
Moisture Content Range	2.0% ~ 40.0% (Wood), 2.0% ~ 75.0% (Paper), 1.5% ~ 30.0% (Wall)
Resolution	0.1%
Accuracy	±2% (Wood), ±1.0% (Paper/Wall)
Temperature Range	-20°C ~ 100°C (-4°F ~ 212°F)
Humidity Range	0 ~ 100% RH
Display	LCD, Max reading 99.9%
Data Hold	Yes
Backlight	White color, auto-off after approx. 15 seconds. Color changes based on moisture level.
Auto Shutdown	Approx. 5 minutes of inactivity.
Low Voltage Indication	Yes (below 2.4V)
Power Supply	2 x AAA batteries
Dimensions (L x W x H)	136mm x 54mm x 28mm (5.35 x 2.13 x 1.10 inches)
Weight	Approx. 130g (without batteries)

## 8.1 Tree Species Type Comparison Table



Figure 8.1: Detailed table for wood species types, their measurement ranges, and backlight indications.

This table provides guidance for selecting the correct wood species group for accurate measurements:

- **Tree Species 1:** Rhodesian teak, red bean tree, Brazilian walnut tree (2.0%~25.0%)
- **Tree Species 2:** Walnut, clone, native poplar, teak (3.0%~30.0%)
- **Tree Species 3:** Fir, Douglas fir, Koombur, white fir, white pine, loblolly pine, maple wood, ash wood, oak (4.0%~35.0%)
- **Tree Species 4:** Masson pine, Chilean pine, white pine, Larch, Abidong, Chinese fir, Birch, Basswood (5.0%~40.0%)
- **Paper:** Printing paper, coated paper, cardboard, kraft paper (5.0%~75.0%)
- **Wall:** Powdery wall, drywall, putty wall, cement wall (1.5%~30.0%)

## 9. PRODUCT VIDEO DEMONSTRATION

Watch this official product video for a visual guide on the PEAKMETER PM6811 Wood Moisture Meter's features and operation.

Your browser does not support the video tag.

Video 9.1: Official demonstration of the PEAKMETER PM6811 PM6811A Wood Moisture Meter, showcasing its design and functionality.

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact PEAKMETER customer service directly. Details for contacting support are typically found on the product packaging or the manufacturer's official website.

Optional protection plans may be available for extended coverage. Please check with your retailer for details.

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