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Model: PM6811

1. INTRODUCTION

Thank you for choosing the PEAKMETER PM6811 Digital Wood Moisture Meter. This device is designed for rapid and accurate measurement of moisture content in wood, cardboard, and other wood fiber products. It features a high-performance microcontroller, environmental temperature compensation, and a large LCD screen for intuitive readings. Please read this manual thoroughly before operation to ensure safe and correct usage.

2. SAFETY INFORMATION

- Always handle the meter with care. The metal probes are sharp.
- Do not attempt to measure live electrical circuits. This device is not designed for electrical measurements.
- Keep the device away from water and high humidity environments to prevent damage.
- Do not expose the meter to extreme temperatures or direct sunlight for extended periods.
- Replace batteries promptly when the low-battery indicator appears to ensure accurate readings.
- Dispose of batteries according to local regulations.

3. PRODUCT OVERVIEW

The PEAKMETER PM6811 is a portable digital moisture meter. Familiarize yourself with its components and controls.



Figure 1: PEAKMETER PM6811 with labeled components. This image shows the high-sensitivity metal probes, LCD screen with backlight, protective cover, power button, species selection button/temperature switch button, and backlight/mode button.

3.1 Key Features

- High-sensitivity metal probes for accurate measurements.
- Large LCD screen with backlight for clear readings.
- Four selectable wood species types for improved accuracy.
- Environmental temperature and humidity detection.
- Data hold function.
- Automatic shutdown after 5 minutes of inactivity (can be disabled).
- Low-battery indication.
- Max/Min measured value display.

4. SPECIFICATIONS

Parameter	Range/Value	Resolution	Error
Moisture Content (Tree species 1)	2.0% ~ 25%	0.10%	±2.0%
Moisture Content (Tree species 2)	3% ~ 30%	0.10%	±2.0%
Moisture Content (Tree species 3)	4% ~ 35%	0.10%	±2.0%
Moisture Content (Tree species 4)	5% ~ 40%	0.10%	±2.0%
Temperature	-20°C ~ 100°C	0.1°C	±0.5°C
Humidity	0%RH ~ 100%RH	0.1%RH	±0.5%RH

General Specifications

- **Display Maximum Value:** 99.9%
- **Data Hold:** Yes
- **Backlight:** Manual ON/OFF, automatic OFF after approx. 15s
- **Auto-off:** Default enabled (5 minutes inactivity), can be disabled
- **Low-battery Indication:** Yes (at <2.4V)
- **Power Supply:** 4 × 1.5V AAA Batteries
- **Dimensions:** 300mm × 96mm × 50mm
- **Net Weight:** 560g (without batteries)
- **Safety Rating:** EN61010-1, EN61010-2-032, EN61326, CAT III 600V

5. SETUP

5.1 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 4 × 1.5V AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.



Figure 2: Battery compartment with AAA batteries installed. Ensure correct polarity when inserting batteries.

5.2 Initial Power On

Press the **POWER** button to turn on the device. The LCD screen will illuminate, and the device will perform a self-test before displaying the current environmental temperature and humidity.

6. OPERATING INSTRUCTIONS

6.1 Taking a Measurement

1. Remove the protective cover from the probes.
2. Ensure the device is powered on.
3. Carefully insert the metal probes into the material to be measured (wood, cardboard, etc.). Ensure both probes penetrate the material sufficiently for accurate contact.
4. The moisture content percentage will be displayed on the LCD screen.

5. After measurement, withdraw the probes and replace the protective cover.

6.2 Wood Species Selection

The PM6811 offers four wood species types to improve measurement accuracy for different wood densities.

- Press the **MODE** button repeatedly to cycle through the four wood species types (indicated by an icon or number on the display).
- Refer to the device's internal calibration or a separate wood species chart for guidance on which type corresponds to your specific wood material.

6.3 Data Hold Function

To freeze the current reading on the display:

- Press the **HOLD** button during measurement. The "HOLD" icon will appear on the screen.
- Press the **HOLD** button again to release the data hold and resume live readings.

6.4 Backlight Control

The backlight improves visibility in low-light conditions.

- Press the **MODE** button briefly to turn the backlight ON or OFF.
- The backlight will automatically turn off after approximately 15 seconds of inactivity to conserve battery power.

6.5 Temperature Unit Switch (°C/°F)

To switch between Celsius and Fahrenheit for temperature readings:

- Press the **°F/°C** button to toggle the temperature unit.

6.6 Automatic Shutdown

The device is equipped with an automatic shutdown feature to save battery life. If no action is performed within 5 minutes, the meter will power off automatically.

- To disable auto-off: While the device is OFF, press and hold the **HOLD** button, then press the **POWER** button simultaneously until "OFF" or a similar indicator appears, signifying auto-off is disabled. Repeat the process to re-enable.

7. MAINTENANCE

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, remove the batteries to prevent leakage. Store the meter in a cool, dry place with the protective probe cover in place.
- **Probe Care:** Keep the probes clean and free from debris. If they become bent or damaged, they may affect measurement accuracy.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity, replace with new AAA batteries.
Inaccurate readings.	Probes not fully inserted; incorrect wood species selected; probes dirty or damaged; low battery.	Ensure probes are fully inserted. Select correct wood species. Clean or inspect probes. Replace batteries.
"LOW BAT" indicator displayed.	Batteries are low.	Replace all 4 AAA batteries with new ones.
Backlight not working.	Backlight turned off; auto-off engaged.	Press the MODE button to toggle backlight. Check battery level.

9. WARRANTY AND SUPPORT

This PEAKMETER product is designed for reliability and durability. For specific warranty information, please refer to the warranty card included with your purchase or contact your retailer. For technical support or service inquiries, please contact PEAKMETER customer service through their official website or the contact information provided with your product.

Note: The EU Spare Part Availability Duration is 1 Year.

