MECHEER PM1

MECHEER Upgraded Wattage Meter Power Monitor User Manual

Model: PM1

Introduction

This user manual provides comprehensive instructions for the MECHEER Upgraded Wattage Meter Power Monitor, Model PM1. This device is designed to accurately measure and monitor the power consumption of electrical appliances, helping users understand and manage their energy usage. It features a clear backlight display and multiple measurement modes, making it suitable for various applications in homes and offices.



Figure 1: MECHEER Upgraded Wattage Meter Power Monitor (Model PM1) with its integrated display and power plug.

Setup

1. **Unpacking:** Carefully remove the power monitor from its packaging.
2. **Initial Connection:** Plug the power monitor directly into a standard wall outlet. The device's backlight display will illuminate upon successful connection.
3. **Connecting Appliance:** Plug the appliance you wish to monitor into the socket on the front of the power monitor.
4. **Using with Extension Cord:** For outlets with limited space or to avoid blocking adjacent sockets, it is recommended to use the power monitor with an extension cord. This improves outlet utilization.



Figure 2: Illustration showing how the power monitor can block adjacent sockets and the benefit of using an extension cord for improved accessibility.

Backlight Display

The device features a backlight for improved visibility. The backlight automatically turns on when the device is plugged in.



Figure 3: Backlight display comparison: Before plug-in (off) and After plug-in (on).

Backlight Setting

The backlight has 5 configurable options for duration. To adjust, press the**DOWN** button to cycle through the settings. To turn off the backlight when not in use, press the **DOWN** button.

- **bl-0:** 10 minutes
- **bl-1:** 1 hour
- **bl-2:** 4 hours
- **bl-3:** 8 hours
- **bl-4:** Always on



Figure 4: Backlight setting options displayed on the meter screen.

Operating Instructions

The MECHEER Power Monitor offers 7 distinct display function modes to provide comprehensive electrical usage data. Use the **FUNCTION** button to cycle through these modes.

Display Modes:

- **Cumulative Time:** Displays the total time the device has been monitoring.
- **Watt (W):** Shows the current power consumption in Watts.
- **Cost:** Displays the accumulated cost of electricity based on the set price per kWh.
- **Cumulative Electrical Quantity (kWh):** Shows the total energy consumed in kilowatt-hours.
- **Voltage (V):** Displays the current line voltage.
- **Frequency (Hz):** Shows the current AC frequency.
- **Current (A):** Displays the current flowing through the circuit in Amperes.

- **Power Factor:** Indicates the power factor of the connected load.
- **MIN Power (W):** Shows the minimum recorded power consumption.
- **MAX Power (W):** Shows the maximum recorded power consumption.
- **Price (COST/KWH):** Allows setting the cost per kilowatt-hour for accurate cost calculation.



Figure 5: Overview of the 7 display function modes and their respective readings.

Button Functions:

- **FUNCTION:** Press to cycle through the various display modes (Watt, KWh, Voltage, etc.).
- **COST:** Used to set the electricity cost per kWh. Press and hold to enter setting mode, then use **UP** and **DOWN** to adjust.
- **UP** / **DOWN:** Used to adjust values during setting modes (e.g., cost per kWh, backlight duration) and to navigate certain menus.
- **RESET:** Press the RESET button with a small tool (like a paperclip) to clear all accumulated data and settings*Do not use a pin as it may get stuck.*

Key Features:

- **Electricity Monitor:** Continuously tracks power usage.
- **Data Memory Function:** Retains recorded data even if unplugged (for a limited time or until reset).
- **Overload Display:** Alerts if the connected appliance exceeds the safe wattage limit.
- **Energy Saving:** Helps identify energy-intensive appliances to promote energy conservation.



Figure 6: Key features of the MECHEER Power Monitor.

Wide View Angle Display:

The display is designed for a 180° full wide view angle, ensuring clear and visible readings from various perspectives.

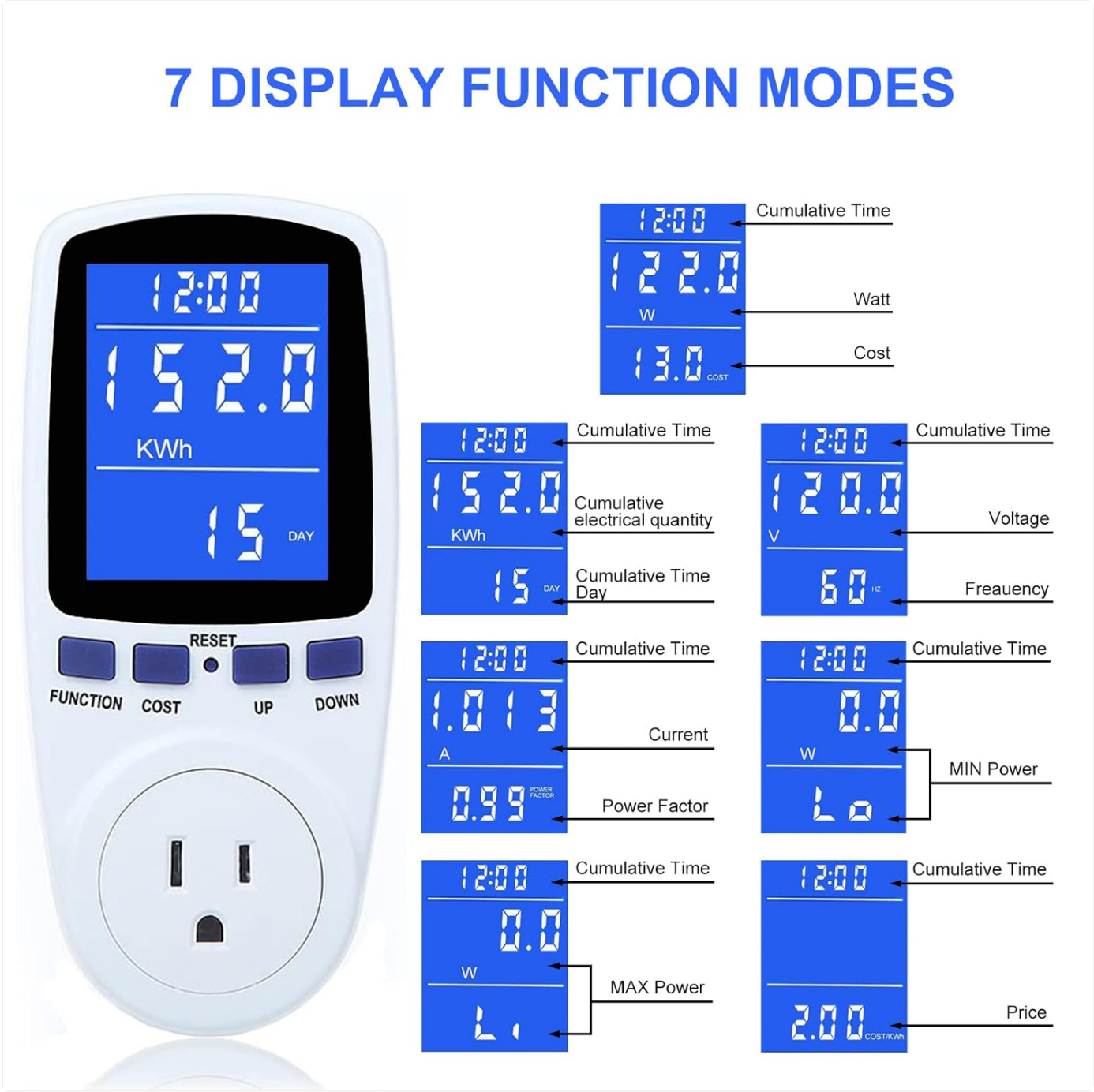


Figure 7: 180° Full Wide View Angle for clear readings.

Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Storage:** Store the power monitor in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts, as this may damage internal components.

Troubleshooting

- **Device Not Turning On:**
  - Ensure the power monitor is securely plugged into a live electrical outlet.
  - Verify that the outlet itself is functioning by plugging in another appliance.

- **Display Not Showing Readings:**
  - Ensure an appliance is properly plugged into the power monitor and is turned on.
  - Cycle through the display modes using the **FUNCTION** button.
- **Incorrect Readings:**
  - Perform a full reset using the **RESET** button. Refer to the "Operating Instructions" section for details on resetting.
  - Ensure the connected appliance is within the device's specified operating range.
- **Backlight Issues:**
  - Check the backlight settings (bl-0 to bl-4) as described in the "Setup" section.
  - Press the **DOWN** button to ensure the backlight is not intentionally turned off.

Specifications

Feature	Detail
Brand	MECHEER
Model Number	PM1
Power Source	DC
Style	US Plug
Item Weight	283 g (10 Ounces)
Package Dimensions	17.2 x 8.4 x 7.6 cm
Manufacturer	MECHEER



Figure 8: The MECHEER Power Monitor is versatile for use in various environments.

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For support, please refer to the product packaging or manufacturer's website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question