

Maxcio PM001

Maxcio PM001 Energy Meter Plug User Manual

Model: PM001

INTRODUCTION

Welcome to the user manual for your Maxcio PM001 Energy Meter Plug. This device is designed to monitor and calculate the energy consumption and costs of your connected appliances. Please read this manual carefully to ensure proper use and to maximize the benefits of your energy meter.

PRODUCT OVERVIEW

The Maxcio PM001 is a dual wattmeter energy meter plug compatible with European Type F (Schuko) and Type C sockets. It features a large, backlit LCD screen for clear visibility and a built-in battery for data retention during power outages.

Key Features:

- Real-time monitoring of voltage, current, power, frequency, power factor, and CO2 emissions.
- Energy consumption (kWh) and cost calculation.
- Large LCD display with 180° viewing angle.
- Data retention during power failure.
- Overload protection warning.
- Dual tariff setting for accurate cost calculation.

Device Components:

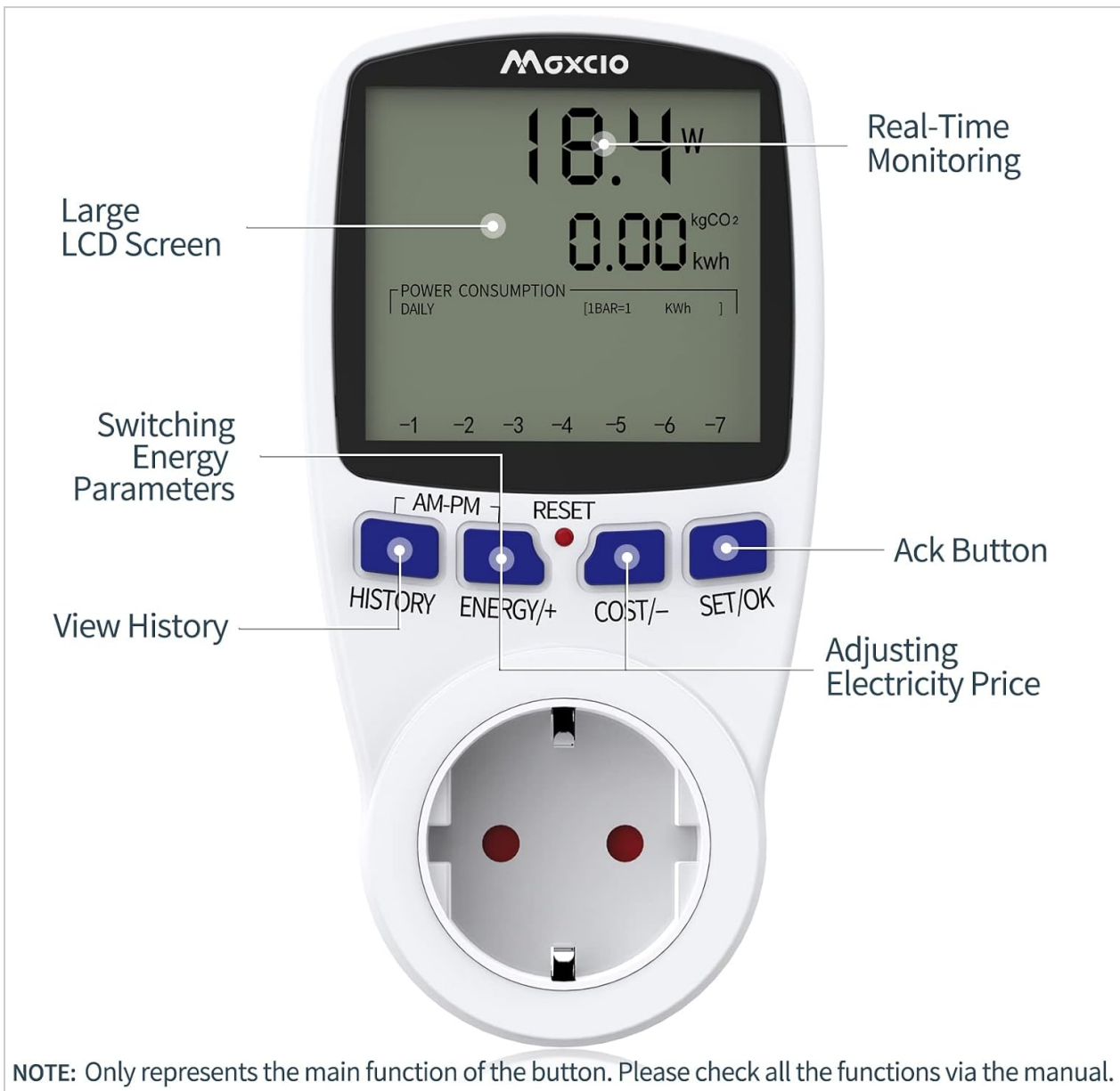


Image: Front view of the Maxcio PM001 Energy Meter Plug, highlighting the LCD screen, control buttons (HISTORY, ENERGY/+, COST/-, SET/OK, AM-PM, RESET), and the socket.

The device features a clear LCD screen, control buttons for navigation and settings, and a standard European socket for appliance connection.

SAFETY INFORMATION

- Do not disassemble or modify the device.
- Ensure the connected appliance's power consumption does not exceed the meter's maximum load (3680W).
- Use only in dry indoor environments.
- Keep out of reach of children.
- If the device is damaged, discontinue use immediately.

SETUP

1. **Initial Connection:** Plug the Maxcio PM001 Energy Meter Plug into a standard wall socket.
2. **Power On:** The LCD screen will illuminate. If not, ensure the wall socket is active.

3. **Appliance Connection:** Plug the appliance you wish to monitor into the socket of the Maxcio PM001.
4. **Battery Charging:** The internal battery will charge automatically when the device is plugged in. This battery ensures data retention during power interruptions.



Image: Two Maxcio PM001 Energy Meter Plugs, showing the front display and socket. Two small reset pins are also visible, indicating the reset function.

OPERATING INSTRUCTIONS

Display Modes:

The device offers 7 monitoring modes. Use the "ENERGY/+" button to cycle through them.

1. **Time/Voltage/Frequency:** Displays current time, voltage (200-276V), and frequency.
2. **Current/Power Factor:** Displays current (Amps) and power factor.
3. **Power (Watts):** Displays real-time power consumption (0.1-3680W).
4. **Minimum Power:** Displays the lowest recorded power consumption.
5. **Maximum Power:** Displays the highest recorded power consumption.
6. **Total Energy (kWh)/CO2 Emission:** Displays accumulated energy consumption (0.00-9999.9 kWh) and estimated CO2 emissions.
7. **Total Cost:** Displays the total calculated cost based on set tariffs.

Multiple-Data Monitoring



Image: The Maxcio PM001 screen showing various data points being monitored, including Wattage, Voltage, Current, Frequency, Power Factor, Total kWh, Cost, CO2, Time, and Maximum Power.

Setting Tariffs:

To accurately calculate electricity costs, you need to set the tariff rates.

1. Press the "SET/OK" button to enter setting mode.
2. Use "COST/-" and "ENERGY/+" buttons to adjust the values.
3. Press "SET/OK" again to confirm and move to the next setting.
4. The device supports dual tariffs (Tariff 1 and Tariff 2) for different time periods. Set the cost per kWh for each tariff and the time ranges.

Dual Tariffs

More accurate calculation of electricity bills & large LCD screen with backlight

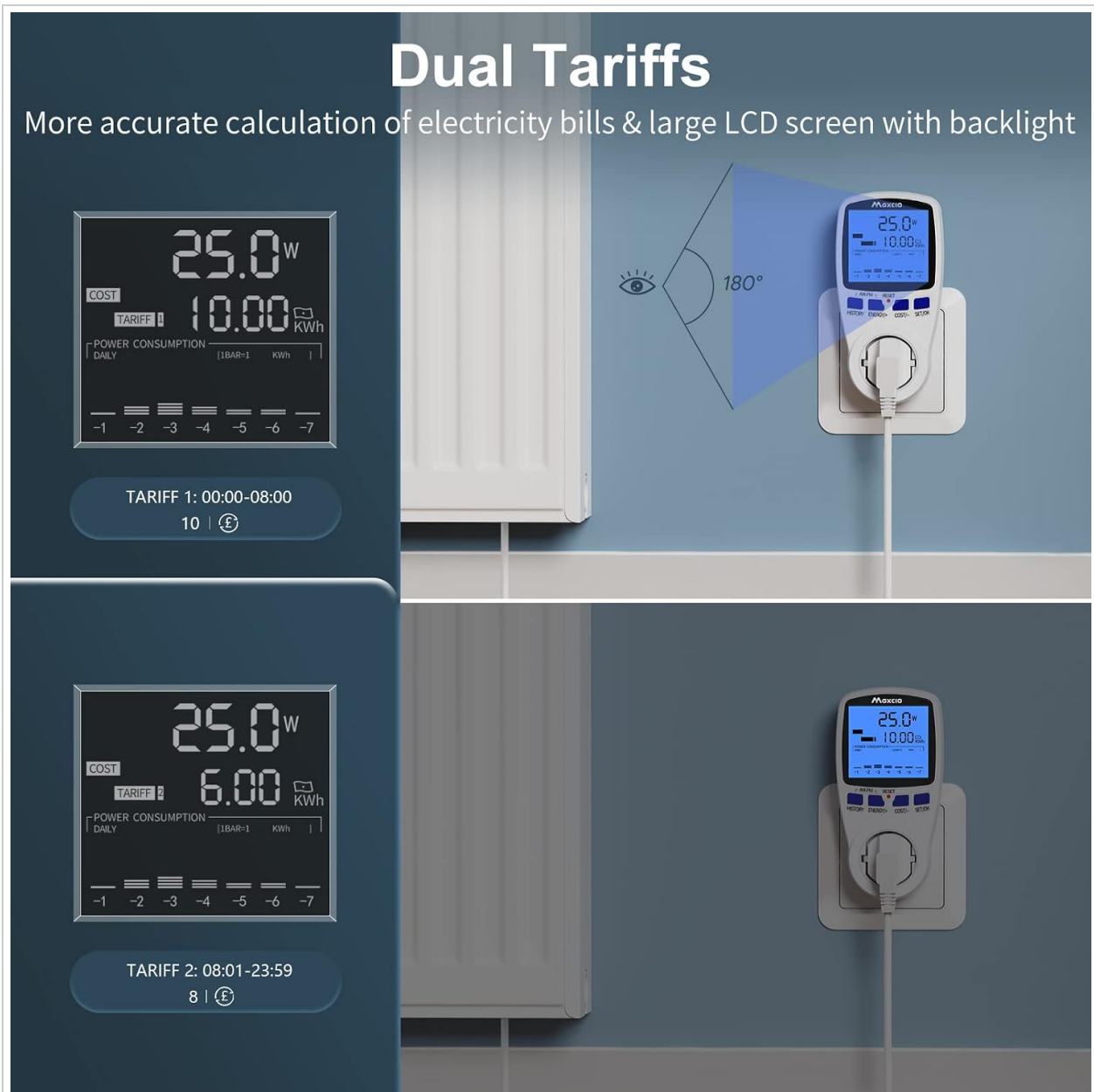


Image: The Maxcio PM001 displaying its dual tariff setting feature, showing different cost rates for different times of the day (Tariff 1 and Tariff 2).

History Function:

Press the "HISTORY" button to view historical power consumption data. The device stores weekly consumption data.

Data Retention & History Function

Built-in rechargeable battery eliminates loss of data due to power failure or removal of the power meter from the socket.



Image: The Maxcio PM001 plugged into a wall socket in a kitchen, demonstrating its data retention and history function, which is supported by a built-in rechargeable battery.

Overload Protection:

If the connected appliance's power exceeds 3680W, the LCD will flash "OVERLOAD" to warn the user. Disconnect the appliance immediately to prevent damage to the meter or the appliance.



OVERLOAD PROTECTION

When the power of connector device exceeds 3680W, the LCD will flashes "OVERLOAD" to warn the user.



Image: The Maxcio PM001 screen showing an "OVERLOAD" warning, indicating that the connected device's power consumption has exceeded the safe limit of 3680W.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place when not in use.
- **Battery:** The built-in NiMH battery is designed for data retention. It does not require user maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Screen is blank.	No power from wall socket; device not properly plugged in.	Check wall socket with another appliance; ensure meter is fully inserted.

Problem	Possible Cause	Solution
"OVERLOAD" warning flashes.	Connected appliance exceeds 3680W.	Disconnect the appliance immediately. Do not use with high-power devices.
Incorrect cost calculation.	Tariff rates not set correctly.	Re-enter setting mode and verify tariff rates and time periods.
Data loss after power outage.	Internal battery may be depleted or faulty.	Ensure the device is regularly plugged in to charge the internal battery. If problem persists, contact support.

SPECIFICATIONS

- **Model:** PM001
- **Manufacturer:** Maxcio
- **Dimensions (L x W x H):** 14.5 x 7.3 x 3.5 cm
- **Weight:** 460 grams
- **Voltage Range:** 200 - 276 Volts
- **Maximum Load:** 3680 Watts
- **Energy Measurement Range:** 0.00 - 9999.9 kWh
- **Battery Type:** NiMH (for data retention)
- **Socket Type:** European Type F (Schuko), compatible with Type C
- **Operating Temperature:** 0-50°C



Image: Front and back views of the Maxcio PM001, showing its physical dimensions (5.82"/14.78cm height, 2.36"/5.99cm width) and a technical label on the back with model, voltage, max load, and other specifications.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Maxcio website or contact your retailer. Keep your purchase receipt as proof of purchase.