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› Maxcio PM001 Double Wattmeter Energy Meter Plug (UK 1P) User Manual

Maxcio PM001

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Model: PM001

1. INTRODUCTION

Thank you for choosing the Maxcio PM001 Double Wattmeter Energy Meter Plug. This device is designed to help you monitor the power consumption of your electrical appliances, providing real-time data on voltage, current, power, energy usage, and cost. By understanding your energy consumption, you can make informed decisions to reduce electricity bills and contribute to energy saving. This manual provides detailed instructions for the safe and efficient use of your energy meter.



Figure 1: Maxcio PM001 Energy Meter Plug with its retail packaging. The device is white with a blue backlit LCD screen and features a UK 3-pin plug type.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This device is for indoor use only. Do not expose it to moisture or extreme temperatures.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Ensure the appliance connected to the meter does not exceed the maximum load capacity (e.g., 13A, 3120W for UK 1P).
- Insert the meter firmly into a wall socket. Do not use with damaged sockets or extension cords.
- Keep out of reach of children.
- If the device displays an 'OVERLOAD' warning, immediately disconnect the appliance to prevent damage or hazards.



Figure 2: The energy meter displaying an 'OVERLOAD' warning on its screen, indicating that the connected appliance's power consumption has exceeded the safe limit.

3. PRODUCT OVERVIEW

The Maxcio PM001 features a clear LCD screen and intuitive buttons for easy operation. It monitors various electrical parameters and stores historical data.

3.1 Components and Display



Figure 3: Labeled diagram of the Maxcio PM001 showing its large LCD screen with backlight, buttons for viewing history, switching energy parameters, adjusting electricity price, and the acknowledge (Ack) button.

- **Large LCD Screen with Backlight:** Displays real-time data clearly.
- **Buttons:**
 - **HISTORY:** View historical consumption data.
 - **ENERGY+/-:** Switch between different energy parameters (Watt, Voltage, Current, Frequency, Power Factor, CO2, Total kWh).
 - **COST+/-:** Adjust electricity price settings.
 - **SET/OK:** Confirm settings or enter setup mode.
 - **RESET:** Reset accumulated data.

3.2 Monitored Data Parameters

Multiple-Data Monitoring



Figure 4: The Maxcio PM001 display showing various monitored data points including Maximum Power, Time, Voltage, CO2, Watt, Frequency, Total kWh, Cost, Current, and Power Factor.

The meter can display the following information:

- **Watt (W):** Real-time power consumption.
- **Voltage (V):** Current line voltage.
- **Current (A):** Current drawn by the appliance.
- **Frequency (Hz):** Line frequency.
- **Power Factor:** Efficiency of power usage.
- **Total kWh:** Accumulated energy consumption.
- **Cost:** Calculated electricity cost based on set tariffs.
- **CO2:** Estimated CO2 emissions.
- **Maximum Power:** Highest power recorded.

4. SETUP

4.1 Initial Power-Up

1. Insert the Maxcio PM001 into a standard UK wall socket.
2. The LCD screen will illuminate, and the device will perform a self-test.
3. The internal rechargeable battery ensures data retention even when unplugged.

4.2 Setting Time and Date

Accurate time and date settings are crucial for correct tariff calculations and historical data logging.

1. Press and hold the **SET/OK** button for approximately 3 seconds to enter setup mode.
2. Use the **ENERGY+/-** and **COST+/-** buttons to navigate through the settings (e.g., Hour, Minute, Day, Month, Year).
3. Press **SET/OK** to confirm each selection and move to the next setting.
4. Once all settings are confirmed, the device will exit setup mode automatically or by pressing **SET/OK** again.

4.3 Setting Electricity Price (Tariff)

The meter supports single and dual tariff settings for accurate cost calculation.

1. Press and hold the **COST+/-** button for approximately 3 seconds to enter cost setting mode.
2. Use **ENERGY+/-** to select between Tariff 1 and Tariff 2 (if applicable).
3. Press **SET/OK** to confirm the tariff selection.
4. Use **ENERGY+/-** and **COST+/-** to adjust the price per kWh for the selected tariff.
5. Press **SET/OK** to confirm the price.
6. If setting dual tariffs, repeat steps for Tariff 2, including setting the start and end times for each tariff period.
7. Press **SET/OK** to exit cost setting mode.

Dual Tariffs

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

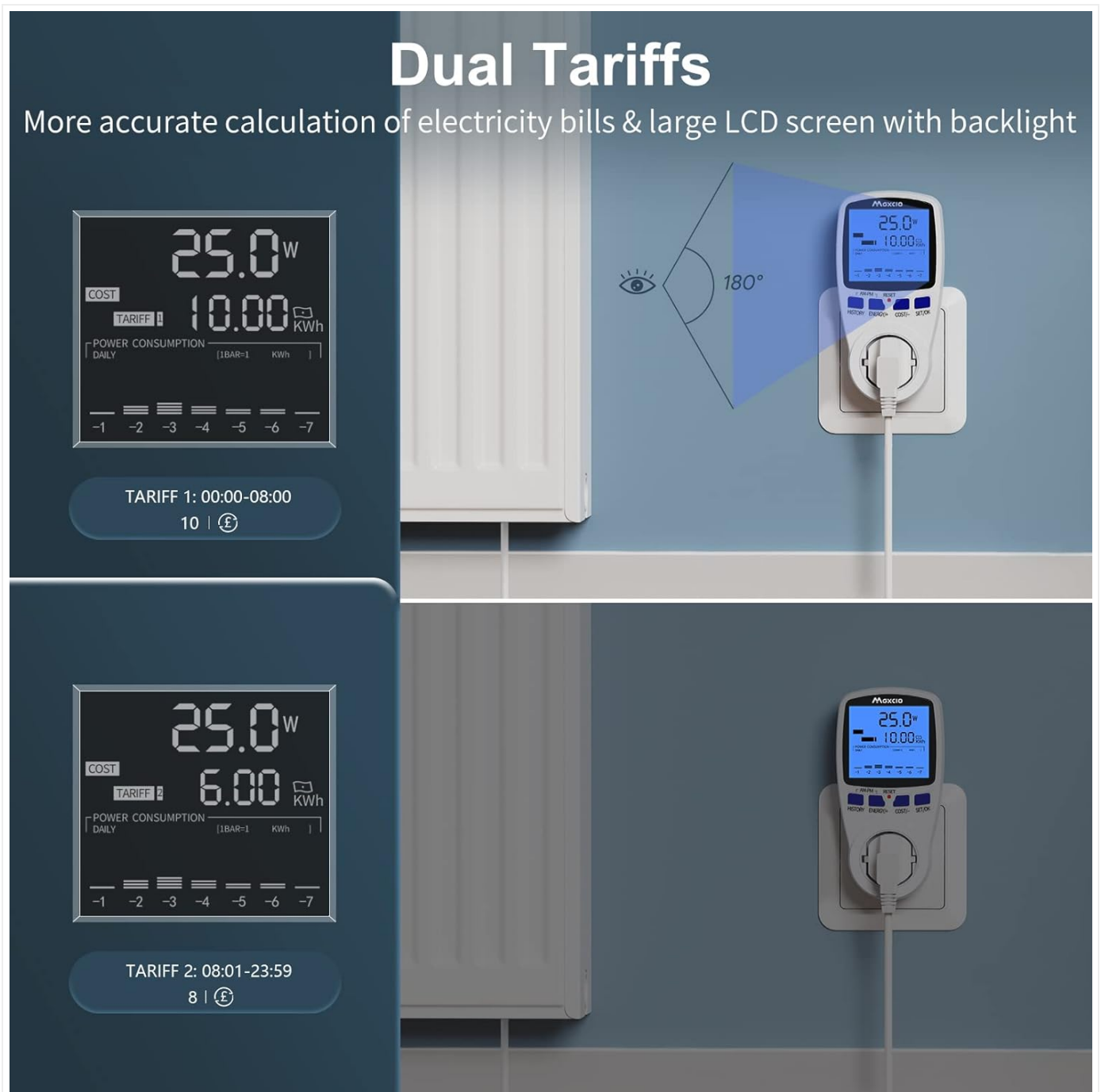


Figure 5: The Maxcio PM001 illustrating its dual tariff functionality, allowing users to set different electricity prices for two distinct time periods (Tariff 1: 00:00-08:00 and Tariff 2: 08:01-23:59).

5. OPERATING INSTRUCTIONS

5.1 Connecting an Appliance

1. Plug the appliance you wish to monitor into the socket on the front of the Maxcio PM001.
2. Ensure the appliance is switched on.
3. The meter will immediately begin displaying real-time power consumption data.

Energy Saving & Economical

Real-time monitoring the power, electricity consumption, help save energy and money



Figure 6: The Maxcio PM001 connected to a toaster, demonstrating real-time monitoring of power and electricity consumption to help save energy and money.

5.2 Viewing Different Parameters

Press the **ENERGY+/-** button repeatedly to cycle through the various display modes, including Watt, Voltage, Current, Frequency, Power Factor, CO₂, Total kWh, and Cost.

5.3 Viewing Historical Data

The meter stores daily and weekly consumption data.

1. Press the **HISTORY** button.
2. Use **ENERGY+/-** to navigate through daily or weekly historical records.
3. The built-in rechargeable battery ensures that data is retained even during power outages or when the meter is unplugged.

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



Figure 7: The Maxcio PM001 in a kitchen environment, highlighting its data retention and history function, which is supported by a built-in rechargeable battery to prevent data loss.

5.4 Resetting Data

To clear all accumulated data (kWh, cost, etc.), press and hold the **RESET** button for approximately 3 seconds. This will reset all stored consumption data and settings, requiring re-entry of time and tariff information.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.
- **Storage:** Store the meter in a cool, dry place when not in use.
- **Battery:** The internal battery is rechargeable and designed for long-term data retention. No user replacement is necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or faint.	No power, faulty unit, or poor viewing angle.	Ensure the meter is firmly plugged into a live socket. Try a different socket. Adjust viewing angle. If problem persists, contact support.
Readings seem inaccurate.	Incorrect settings, or appliance issue.	Verify electricity price settings. Ensure the appliance is functioning correctly. Compare with another known accurate meter if available.
'OVERLOAD' warning displayed.	Connected appliance exceeds maximum power rating.	Immediately disconnect the appliance. Do not use the meter with appliances exceeding 3120W (UK 13A).
Settings (time, cost) are lost after unplugging.	Internal battery issue or full reset performed.	The internal battery should retain settings. If a full reset was performed, re-enter settings. If settings are consistently lost without a reset, contact support.
Cannot reset only specific data.	The RESET button performs a full reset.	The device's RESET function clears all data. Re-enter time and tariff settings after a full reset.

8. SPECIFICATIONS



Figure 8: A diagram illustrating the physical dimensions of the Maxcio PM001 energy meter, showing its length, width, and depth in both inches and centimeters.

Parameter	Value
Model Number	PM001
Manufacturer	Maxcio
Dimensions (Product)	Approx. 14.78 cm (H) x 6 cm (W) x 3.45 cm (D)
Dimensions (Package)	15.6 x 8.3 x 8.2 cm
Weight	260 grams
Plug Type	UK 1P (3-pin)
Battery Included	Yes

Parameter	Value
Battery Composition	NiMH
ASIN	B08HWC1XTG

9. WARRANTY AND SUPPORT

Maxcio products are designed for reliability and performance. For warranty information, technical support, or customer service inquiries, please refer to the contact details provided with your purchase or visit the official Maxcio website.

Official Website: <https://a.smart321.com/maxcio>

