

Maxcio PMB08

Maxcio Energy Consumption Meter PMB08 User Manual

Model: PMB08

1. INTRODUCTION

The Maxcio Energy Consumption Meter (Model PMB08) is designed to help you monitor and understand the electricity usage of your household appliances. This device measures various electrical parameters, including power, current, voltage, and energy consumption (kWh), providing valuable data to manage your electricity bills and reduce energy waste. It features an updated design with a "HISTORY" button for easy access to historical data, a backlit LCD, and overload protection.



Image: The Maxcio Energy Consumption Meter, showing its LCD screen and key features such as energy monitoring, 7 monitoring modes, overload warning, data storage, backlit LCD, and easy customer service access.

2. SAFETY INFORMATION

- Do not disassemble or modify the device. Unauthorized modifications may lead to electric shock or

fire.

- Ensure the device is used within its specified voltage and current limits to prevent damage or hazards.
- Keep the device away from water and high humidity environments.
- Do not insert foreign objects into the sockets or openings.
- If the device shows signs of damage or malfunction, discontinue use immediately and contact support.
- This device is for indoor use only.

3. PRODUCT OVERVIEW

Components:

- Energy Consumption Meter Unit
- LCD Display Screen
- Control Buttons (ENERGY, COST, RESET, HISTORY, UP)
- Power Plug (for wall outlet)
- Appliance Socket (for device to be measured)

Display and Buttons:

The large LCD screen displays various measurement parameters. Below the screen are five buttons:

- **ENERGY:** Cycles through different energy-related display modes (Voltage, Current, Power, Frequency, Power Factor, Min/Max Power).
- **COST:** Displays cost-related information and allows setting electricity price.
- **RESET:** Clears all accumulated data and settings. Use a small pin or clip to press this recessed button.
- **HISTORY:** Accesses historical data records.
- **UP:** Used for adjusting settings, such as electricity price.

4. SETUP

1. **Initial Connection:** Plug the Maxcio Energy Consumption Meter into a standard wall outlet. The LCD screen will illuminate, and the device will power on.
2. **Connect Appliance:** Plug the appliance you wish to monitor into the socket on the front of the Maxcio meter.
3. **Set Electricity Price (Optional but Recommended):**
 - Press the **COST** button until the cost setting mode is displayed.
 - Use the **UP** button to adjust the electricity price per kWh. Refer to your electricity bill for the most accurate rate.
 - Press **COST** again to confirm and exit the setting mode.



AHORRE EN COSTES DE ELECTRICIDAD

- Determinación fiable del consumo de energía de dispositivos electrónicos en el hogar y la oficina.
- Explore opciones de reemplazo para obtener mejores facturas de energía y ahorrar dinero

Image: The Maxcio meter plugged into a wall socket, with an appliance cable connected to the meter's output socket, demonstrating typical setup.

5. OPERATION

Monitoring Modes:

The Maxcio meter offers 7 monitoring modes. Press the **ENERGY** button to cycle through these modes:

1. **Mode 1: Voltage (V), Current (A), Power (W)** - Displays real-time electrical parameters.
2. **Mode 2: Frequency (Hz), Power Factor (PF), Accumulated Energy (kWh)** - Shows grid frequency, power factor, and total energy consumed.
3. **Mode 3: Time, Cost** - Displays the duration of monitoring and the calculated electricity cost.
4. **Mode 4: Daily Energy Consumption (kWh)** - Shows energy consumption for the current day.
5. **Mode 5: Weekly Energy Consumption (kWh)** - Shows energy consumption for the current week.
6. **Mode 6: Monthly Energy Consumption (kWh)** - Shows energy consumption for the current month.
7. **Mode 7: Overload Warning (W)** - Displays the current power and indicates "OVERLOAD" if the limit is exceeded.



Image: A visual representation of the 7 distinct monitoring modes available on the Maxcio meter's LCD screen, showing various electrical parameters.

Accessing Historical Data:

Press the **HISTORY** button to view past energy consumption data. This feature allows you to track usage over time and identify trends.

Resetting Data:

To clear all accumulated data and reset the meter, use a small pin or clip to press the recessed **RESET** button. This is useful when starting a new measurement period for a different appliance.

6. FEATURES

- **Real-time Monitoring:** Accurately monitors voltage, current, power, frequency, power factor, and energy consumption in real-time.

MONITOREO EN TIEMPO REAL

Verifique datos en tiempo real para reducir el consumo de energía y ahorrar dinero



Image: The Maxcio meter monitoring a toaster, with a graph illustrating power consumption trends over several days.

- **Overload Protection:** If the current exceeds 16A or the load power surpasses 3680W, the meter will automatically stop and display "OVERLOAD" on the screen, blinking to alert the user.



Image: The Maxcio meter showing an "OVERLOAD" warning on its screen, indicating that the connected device has exceeded the safe power limit.

- **Data Storage:** Equipped with a built-in backup battery (NiMH), the meter retains all configuration settings and accumulated data even when unplugged or during a power outage. This prevents data loss and eliminates the need for re-configuration.



Image: The Maxcio meter illustrating its data storage capability, ensuring that even if the device is disconnected, the most recent data is saved.

- **Backlit LCD Display:** The large LCD screen features a blue backlight for improved readability, especially in low-light conditions. The backlight activates upon insertion into an outlet and turns off after 1 to 5 seconds of inactivity.



Image: A side-by-side comparison of the Maxcio meter's display with the blue backlight on and off, highlighting improved clarity when illuminated.

7. MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Store the meter in a cool, dry place when not in use.
- Avoid exposing the device to extreme temperatures or direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or not turning on.	Not properly plugged into an active outlet.	Ensure the meter is securely plugged into a live wall socket. Check the wall socket with another device.

Problem	Possible Cause	Solution
"OVERLOAD" message appears.	Connected appliance exceeds the meter's maximum load (16A / 3680W).	Unplug the appliance immediately. Do not use the meter with appliances that exceed its specified limits.
Incorrect cost calculation.	Electricity price per kWh is set incorrectly.	Re-enter the correct electricity price per kWh using the COST and UP buttons.
Data not resetting.	RESET button not pressed correctly.	Use a thin, pointed object (like a paperclip) to firmly press the recessed RESET button until the display clears.

9. SPECIFICATIONS

Parameter	Value
Model Number	PMB08
Dimensions	7.6 x 8.2 x 16.5 cm
Weight	220 g
Max Current	16A
Max Power	3680W
Included Components	Energy Consumption Meter
Battery Type	NiMH (for data backup)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Maxcio website. If you encounter any issues not covered in this manual, please contact Maxcio customer service for assistance.