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Maclean MCE06

Maclean Energy MCE06 Electricity Meter User Manual

Model: MCE06 | Brand: Maclean

INTRODUCTION

The Maclean Energy MCE06 is a versatile multi-function electricity meter designed to measure and monitor your electrical power consumption. This watt-hour meter provides real-time data on various electrical parameters, helping you understand and manage your energy usage effectively. It allows you to view up to three values simultaneously on its multi-function display, such as power, power factor, and time, or voltage, frequency, and time, among other combinations.

PRODUCT FEATURES

- Multi-function electricity and watt-hour meter.
- Displays current time.
- Displays voltage.
- Displays current consumption.
- Displays load power consumption (in watts).
- Displays and records the amount of consumed electricity.
- Displays and records the total duration of operation and energy loads (after setting the type).
- Displays electrical power frequency.
- Displays power factor.

SETUP

1. Initial Setup and Battery Installation

The Maclean Energy MCE06 meter requires 3 LR44 batteries for its operating reserve, which helps maintain time and settings when the device is unplugged. These batteries are typically included. To install or replace them:

1. Locate the battery compartment on the back of the device.
2. Open the battery cover.
3. Insert 3 LR44 batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely. Ensure the cover is in place before use.



Figure 1: Back view of the Maclean Energy MCE06 meter, highlighting the battery compartment and product specifications. Ensure the battery cover is properly secured before operation.

2. Connecting the Device

Plug the Maclean Energy MCE06 meter into a standard 230V AC 50Hz wall socket. Then, plug the appliance you wish to monitor into the socket on the front of the MCE06 meter.



Figure 2: Front view of the Maclean Energy MCE06, showing the display, control buttons (UP, SET, FUNC), and the integrated power socket for connecting appliances.

OPERATING INSTRUCTIONS

1. Display Information

The MCE06 features a multi-function display that shows various electrical parameters. Due to the compact size of the display, it may be necessary to view it in good lighting or at a close distance for optimal readability.

2. Button Functions

The device has three main buttons: **UP**, **SET**, and **FUNC**, along with a **MASTER CLEAR** button (a small recessed button, usually requiring a pointed object to press).

- **UP Button:** Used to scroll through options or increase values during settings.
- **SET Button:** Used to confirm selections or move to the next setting parameter.
- **FUNC Button:** Used to cycle through different display modes (e.g., time, voltage, power, frequency, power factor) and to access tariff setting modes. Short presses typically change display modes, while long presses access configuration menus.
- **MASTER CLEAR Button:** Resets all settings and accumulated data to factory defaults. Use with caution.

3. Basic Measurement Display

Once an appliance is plugged into the meter and powered on, the MCE06 will automatically begin measuring. Use the **FUNC** button to cycle through various display screens, showing parameters such as:

- Current Time
- Voltage (V)
- Current (A)
- Power (W)
- Frequency (Hz)
- Power Factor (PF)
- Accumulated Energy Consumption (kWh)
- Total Operating Time

4. Setting Tariffs (Price 1 / Price 2)

The MCE06 allows you to configure up to two different tariffs (e.g., for peak and off-peak hours) to calculate electricity costs. This process involves a combination of long and short presses of the **FUNC** and **SET** buttons.

1. First, ensure the local time is set correctly on the device.
2. Press and hold the **FUNC** button until "Price 1" appears on the right side of the screen.
3. Use the **SET** button to navigate through the settings (e.g., day, hour, tariff rate).
4. Use the **UP** button to adjust the values for each setting.
5. Once "Price 1" (e.g., peak hour tariff) is configured, press the **FUNC** button briefly to access "Price 2" (e.g., off-peak hour tariff) settings.
6. Repeat steps 3 and 4 to configure "Price 2".
7. The device will save the settings automatically after a period of inactivity or by cycling through all settings.

While the device is simple to configure, precise tariff settings may require careful adjustment as it might not support three decimal places for tariff rates.

5. Clearing Data

To clear accumulated consumption data or reset all settings:

- **To clear specific counters:** Navigate to the desired counter display (e.g., kWh) and look for an option to clear it, often by a long press of a button or a specific button combination not explicitly detailed in the provided data but implied by

similar devices.

- **To clear all history/reset:** Use the small recessed**MASTER CLEAR** button. This will erase all stored data and return the device to its factory default settings.

MAINTENANCE

Cleaning

To clean the device, unplug it from the power outlet and disconnect any connected appliances. Wipe the surface with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.

Storage

Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, it is advisable to remove the LR44 batteries to prevent leakage.

TROUBLESHOOTING

- **Display is difficult to read:** The display is compact. Ensure you are viewing it in adequate lighting. For detailed readings, it may be helpful to view it up close.
- **Difficulty programming settings (e.g., tariffs):** The programming involves specific sequences of short and long presses of the FUNC and SET buttons. Refer to the "Operating Instructions" section carefully. Practice the button combinations. If issues persist, try a MASTER CLEAR reset and re-enter settings.
- **Device not turning on or displaying:**
 - Ensure the meter is securely plugged into a live 230V AC 50Hz outlet.
 - Check if the LR44 batteries are correctly installed and have sufficient charge. Replace if necessary.
- **Inaccurate readings:**
 - Ensure the connected appliance is functioning correctly.
 - Verify that the meter's specifications (e.g., max load 16A, 3600W) are not exceeded by the connected appliance.

SPECIFICATIONS

Parameter	Value
Model	MCE06
Power Supply	230V AC 50Hz
Operating Reserve	3 x LR44 batteries (included)
Maximum Load	3600 W, 16 A
Voltage Measurement Range	190 V - 276 V
Voltage Measurement Error	± 1 %
Current Measurement Range	0.01 A - 16 A
Current Measurement Error	± 1 % or 0.01 A

Parameter	Value
Power Measurement Range	0.2 W - 4416 W
Power Measurement Error	± 1 % or ± 0.2 W
Total Energy Measurement	Up to 999.9 kWh
Frequency Measurement Range	45 Hz - 65 Hz
Clock Error	± 1 minute/month
Power Consumption (Meter)	< 0.5 W
Operating Temperature	-10 °C to +40 °C
Dimensions	21 x 10 x 9 cm
Weight	160 g



Figure 3: Side view of the Maclean Energy MCE06, illustrating its compact design and plug orientation.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Maclean customer service through their official website or your retailer. Keep your proof of purchase for any warranty claims.

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