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Realpower EM-1

Realpower EM-1 Energy Meter Instruction Manual

Model: EM-1

1. Introduction

This manual provides comprehensive instructions for the safe and efficient use of your Realpower EM-1 Energy Meter. Please read this manual thoroughly before operating the device and retain it for future reference. The EM-1 is designed to measure and display the power consumption and associated costs of connected electrical appliances.

Safety Information

- Ensure the device is connected to a properly grounded electrical outlet.
- Do not exceed the maximum load capacity of 16A / 230V-250V.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from water, moisture, and extreme temperatures.
- This device is intended for indoor use only.

2. Product Overview

The Realpower EM-1 is an easy-to-use energy meter that plugs directly into a wall socket, allowing you to monitor the electricity usage of any connected appliance. It features a large LCD display for clear readings and simple operation via two buttons.

Components Included

- Realpower EM-1 Energy Meter Unit
- Instruction Manual (this document)
- Service Card

Device Layout



Figure 2.1: Front view of the Realpower EM-1 Energy Meter. The display shows '230.0 V', indicating voltage measurement. Below the display are three buttons labeled 'MODE', 'R', and 'SET', positioned above the power socket.




V
230.0
MODE
R
SET



Figure 2.2: Realpower EM-1 Energy Meter with a standard electrical plug inserted into its integrated socket. This illustrates how an appliance connects to the meter for power monitoring.

3. Setup

1. **Unpack:** Carefully remove the EM-1 Energy Meter from its packaging.
2. **Plug In:** Insert the EM-1 into a standard wall socket. The display will illuminate, typically showing the current voltage.
3. **Connect Appliance:** Plug the appliance you wish to monitor into the socket on the front of the EM-1.

4. Operating Instructions

The EM-1 features three buttons for navigation and settings: **MODE**, **R** (Reset), and **SET**.

Button Functions

- **MODE:** Cycles through different display parameters (Voltage, Current, Power, Energy Consumption, Cost, Min/Max Power).
- **R (Reset):** Resets accumulated data (e.g., energy consumption, cost). Press and hold for 3 seconds to reset.
- **SET:** Used to enter settings mode, primarily for setting the cost per kWh.

Display Modes

Press the **MODE** button repeatedly to cycle through the following display screens:

- **Voltage (V):** Displays the current line voltage.
- **Current (A):** Displays the current drawn by the connected appliance.
- **Power (W):** Displays the instantaneous power consumption of the connected appliance.
- **Energy Consumption (kWh):** Displays the total accumulated energy consumed since the last reset.
- **Cost:** Displays the total accumulated cost based on the set cost per kWh.
- **Minimum Power (Min W):** Displays the lowest power recorded.
- **Maximum Power (Max W):** Displays the highest power recorded.

Setting Cost per kWh

1. Press the **MODE** button until the display shows the 'Cost' screen.
2. Press and hold the **SET** button for approximately 3 seconds until the cost value starts flashing.
3. Use the **MODE** button to increase the flashing digit.
4. Press the **SET** button to move to the next digit.
5. Repeat steps 3 and 4 until the desired cost per kWh is set.
6. Press the **SET** button again to confirm and exit the setting mode.

Resetting Data

To reset the accumulated energy consumption (kWh) and cost data, press and hold the **R** button for approximately 3 seconds. The display will briefly show '0.00' to confirm the reset.

5. Maintenance

Cleaning

To clean the EM-1, disconnect it from the power outlet and unplug any connected appliances. Wipe the device with a soft, dry cloth. Do not use liquid cleaners, abrasive materials, or solvents, as these can damage the device.

Storage

When not in use, store the EM-1 in a cool, dry place, away from direct sunlight and extreme temperatures.

6. Troubleshooting

Problem	Possible Cause	Solution
Display is blank.	No power to the EM-1.	Ensure the EM-1 is securely plugged into a live wall socket. Check the wall socket with another appliance.
Incorrect readings.	Appliance not fully plugged in; EM-1 malfunction.	Ensure the appliance is fully inserted into the EM-1 socket. If the issue persists, contact support.
Buttons are unresponsive.	Temporary software glitch.	Unplug the EM-1 from the wall socket, wait 10 seconds, then plug it back in.
Cost calculation is incorrect.	Incorrect cost per kWh setting.	Review and re-enter the cost per kWh as described in Section 4.

7. Specifications

Feature	Value
Model	EM-1
Input/Output Voltage	230V-250V AC
Maximum Current	16A
Measurement Accuracy	+/- 2%
Display	Large LCD
Dimensions	2.09 x 2.99 x 2.99 inches (approx.)
Weight	4.9 ounces (approx.)
Material	Plastic, Aluminum
Color	White

8. Warranty and Support

The Realpower EM-1 Energy Meter comes with a service card. Please refer to the information provided on the service card for details regarding warranty coverage and how to contact customer support for technical assistance or service inquiries.

For further assistance, please contact your retailer or the manufacturer directly using the contact details provided with

your purchase or on the service card.

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