Besvic PMB05

Besvic Power Meter Energy Monitor Plug User Manual

Model: PMB05

Your guide to efficient energy monitoring and cost saving.

Introduction

Thank you for choosing the Besvic Power Meter Energy Monitor Plug. This device is designed to help you monitor the power consumption of your electrical appliances in real-time, providing detailed insights into energy usage and costs. By understanding your electricity consumption, you can make informed decisions to save energy and reduce your utility bills. This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your power meter.



Figure 1: Besvic Power Meter Energy Monitor Plug. This image shows the front view of the white power meter plug with a large LCD display and control buttons, featuring a UK standard plug socket.

Key Features

- **7 Monitoring Modes:** Supports monitoring of time, wattage, cost, cumulative power consumption, voltage, frequency, current, power factor, minimum power, maximum power, and electricity price.

- **Real-time Monitoring:** Provides instant data on power consumption and electricity cost of connected devices.
- **Overload Warning:** Alerts the user with a blinking "OVERLOAD" message on the LCD screen if the connected device's load exceeds 3680W, protecting the device from damage.
- **Memory Function:** Built-in backup battery retains data even during power outages.
- **Large LCD Display:** Easy to read from a distance.
- **Compact Design:** Smaller size compared to similar devices, saving space.
- **Easy to Operate:** Intuitive button layout for mode selection, price setting, and data reset.



Figure 2: Multi Monitoring Modes. This image illustrates the various monitoring modes available on the Besvic Power Meter, including Time/Watt/Cost, Time/Total KWh/Day, Time/Voltage/Frequency, Time/Current/Power Factor, Time/Minimum Power, Time/Maximum Power, and Time/Unit Price.

What's in the Box

Upon opening the package, please ensure all the following items are present:

- 1 x Besvic Power Meter Energy Monitor Plug
- 1 x User Manual (this document)

Setup Guide

1. **Unpack the Device:** Carefully remove the power meter from its packaging.
2. **Initial Power-On:** Plug the Besvic Power Meter directly into a standard wall socket. The LCD display should light up, indicating it is powered on.
3. **Connect Appliance:** Plug the electrical appliance you wish to monitor into the socket on the front of the power meter.
4. **Set Electricity Price (Optional but Recommended):** To accurately calculate electricity costs, you need to set the unit electricity price.
   - Press the **"COST"** button.
   - Use the **"UP"** and **"DOWN"** buttons to adjust the unit price.
   - Press **"COST"** again to confirm and save the setting.



Figure 3: Appliance Monitoring. This image shows the power meter connected to a wall socket, with various household appliances like a washing machine, microwave oven, computer, dishwasher, TV, and refrigerator depicted as being monitored.

Operating Instructions

Button Functions:

- **FVNC (Function) Button:** Press this button repeatedly to cycle through the 7 different monitoring modes.
- **COST Button:** Used to enter the electricity price setting mode and confirm the price.
- **UP Button:** Used to increase values when setting the electricity price.
- **DOWN Button:** Used to decrease values when setting the electricity price.
- **RESET Button:** Press and hold this button for approximately 3-5 seconds to clear all accumulated data and settings. This will reset the device to its default state.

Monitoring Modes:

The Besvic Power Meter offers 7 distinct monitoring modes, accessible by pressing the**"FVNC"** button:

1. **Time/Watt/Cost:** Displays the elapsed time of monitoring, the current power consumption in Watts (W), and the accumulated cost.
2. **Time/Total KWh/Day:** Shows the total accumulated kilowatt-hours (KWh) consumed and the duration of monitoring.
3. **Time/Voltage/Frequency:** Displays the current voltage (V) and frequency (Hz) of the power supply, along with monitoring time.
4. **Time/Current/Power Factor:** Shows the current (Ampere, A) drawn by the appliance and the power factor, alongside monitoring time.
5. **Time/Minimum Power:** Displays the lowest power consumption (W) recorded during the monitoring period.
6. **Time/Maximum Power:** Displays the highest power consumption (W) recorded during the monitoring period.
7. **Time/Unit Price:** Shows the set unit electricity price.

Overload Warning:

The device is equipped with an overload protection feature. If the power consumption of the connected appliance exceeds 3680W, the LCD screen will display a blinking **"OVERLOAD"** warning. This indicates that the appliance is drawing too

much power and may pose a risk. Disconnect the appliance immediately if this warning appears to prevent damage to the power meter or the appliance.



Figure 4: Overload Protection. This image demonstrates the overload warning feature, showing the power meter display blinking "OVERLOAD" when connected to an appliance drawing more than 3680W.

Memory Function:

The built-in backup battery ensures that all recorded data (cumulative power consumption, cost, etc.) is retained even if the power meter is unplugged from the wall socket or if there is a power outage. This allows for continuous tracking of energy usage without data loss.



Figure 5: Real-Time Monitoring. This image shows the power meter actively monitoring an appliance, with a graph illustrating power consumption and cost trends over time.

Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Storage:** When not in use for extended periods, store the power meter in a cool, dry place away from direct sunlight and extreme temperatures.

- **Avoid Impact:** Protect the device from drops or strong impacts, which can damage internal components or the LCD screen.

Troubleshooting

Problem	Possible Cause	Solution
Display is blank or not turning on.	No power from the wall socket; device malfunction.	Ensure the wall socket is live by testing with another appliance. If still blank, contact customer support.
Readings seem inaccurate.	Incorrect electricity price set; device malfunction.	Verify the unit electricity price setting. Try resetting the device using the "RESET" button.
"OVERLOAD" warning blinking.	Connected appliance exceeds 3680W.	Immediately unplug the appliance. Do not connect appliances with power consumption above 3680W.
Data not saving after unplugging.	Internal backup battery issue (unlikely for new device).	The device has a memory function. If data is consistently lost, contact customer support.

Specifications

Parameter	Value
Model Number	PMB05
Manufacturer	Besvic
Item Weight	190 g
Product Dimensions	14.6 x 8.4 x 6.8 cm
Colour	Without Backlight
Style	Power Meter Plug
Power Source Type	Battery Powered (for memory retention)
Max Load Capacity	3680W (Overload warning threshold)



Figure 6: Product Dimensions. This image provides a detailed diagram of the power meter's dimensions in inches, showing its height, width, and depth.

Warranty and Support

Besvic products are manufactured to high-quality standards. For any issues, questions, or support needs, please refer to the contact information provided with your purchase or visit the official Besvic website. Please retain your proof of purchase for warranty claims.
For further assistance, please contact Besvic Customer Service.

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Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question