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Fafeicy Fafeicy5i79xch2yv

Fafeicy Multifunctional Electricity Monitor User Manual

Model: Fafeicy5i79xch2yv

1. Introduction

This manual provides essential information for the safe and effective use of your Fafeicy Multifunctional Electricity Monitor. This device is designed to accurately measure voltage, current, active power, accumulated electric energy, frequency, and power factor for home use. Please read this manual thoroughly before installation and operation.

The monitor features a clear, large screen display and convenient backlight control for visibility in various lighting conditions. It also includes an alarm function for excessive power consumption and a versatile button for various controls.

2. Safety Information

WARNING: Do not use this product outside its specified voltage and current range (110~250V, 0.00~100A). Exceeding these limits can cause damage to the device and pose a safety risk.

Ensure proper electrical connections are made by a qualified professional if you are unsure. Always disconnect power before installation or maintenance.

This monitor measures active power. It does not display apparent power. When measuring the power of a pure sine DC-AC inverter, ensure it is compatible to prevent damage to the meter.

3. Product Overview

The Fafeicy Multifunctional Electricity Monitor provides real-time data on your electrical usage. Its compact design allows for easy integration into various setups.

Figure 3.1: Front view of the Fafeicy Multifunctional Electricity Monitor, showing its digital display and connection wires.

Key Features:

- **Accurate Power Monitoring:** Measures active power (not apparent power) for precise readings.
- **Convenient Backlight Control:** Manual control for backlight on/off, ensuring readability in all lighting conditions.
- **Versatile Button Function:** Controls backlight, resets energy data, and sets alarm thresholds.
- **Alarm Function:** Flashing backlight and power figures alert when preset power value is exceeded.
- **Clear Large Screen Display:** Real-time display of voltage, current, active power, accumulated electric energy, frequency, and power factor.

4. Specifications

Table 4.1: Product Specifications

Parameter	Value
Item Type	Power Monitor

Parameter	Value
Material	Nylon
Voltage Range	110~250V
Current Range	0.00~100A
Power Range	0.00~22000W
Power Factor	0.00~0.99
Electricity (Accumulated Energy)	0.01~99999KWh
Frequency	50HZ/60Hz
Product Size (L x W x H)	Approx. 90x54.5x28mm / 3.5x2.1x1.1in
Item Weight	Approx. 3.81 ounces
Model Number	Fafeicy5i79xch2yv

Figure 4.1: Detailed dimensions of the electricity monitor, showing length, width, and height measurements.

5. Package Contents

Verify that all items are present in the package:

- 1 x Power Monitor

- 1 x English Manual (this document)

6. Setup and Installation

The Fafeicy Multifunctional Electricity Monitor is designed for easy installation. Follow these steps carefully:

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the circuit where the monitor will be installed is completely disconnected.
2. **Mounting:** Choose a suitable location for the monitor. The device is designed for panel mounting or integration into an electrical box. Refer to the dimensions in Figure 4.1 for proper fitting.
3. **Wiring the Current Transformer (CT):**
   - Connect the small red and black wires from the current transformer to the corresponding terminals on the back of the power monitor. Ensure correct polarity if indicated.
   - Pass the live wire (load wire) of the circuit you wish to monitor through the opening of the current transformer. Ensure the CT is installed correctly around the live wire only.

Figure 6.1: The electricity monitor connected to its current transformer, illustrating the wiring setup.

4. **Connecting Power to the Monitor:** Connect the main power supply wires (live and neutral) to the designated input terminals on the power monitor. Refer to the wiring diagram (if provided with the physical product) for precise connections.
5. **Power Restoration:** Once all connections are secure and verified, restore power to the circuit. The monitor should power on and display readings.

Note: Incorrect wiring can lead to inaccurate readings or damage to the device. If you are not confident in performing electrical wiring, consult a qualified electrician.

7. Operating Instructions

The Fafeicy Electricity Monitor is operated using a single button located on the front panel.

Button Functions:

- **Short Press (Backlight Control):** A quick press of the button will toggle the backlight on or off. This allows

for comfortable viewing in various lighting conditions.

- **Long Press for 3 Seconds (Overload Power Setting):** Press and hold the button for approximately 3 seconds to enter the overload power setting mode. In this mode, you can adjust the threshold for the power alarm. Follow on-screen prompts to set the desired power limit.
- **Long Press for 5 Seconds (Clear Accumulated Power Data):** Press and hold the button for approximately 5 seconds to clear the accumulated electricity data (KWh). This action will reset the energy consumption counter to zero.

Alarm Function:

If the measured power exceeds the preset overload power value, the monitor's backlight will flash, and the power figures on the display will also flash. This visual alert indicates excessive power consumption, prompting you to take action.

8. Maintenance

To ensure the longevity and accurate operation of your electricity monitor, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Environment:** Store and operate the monitor in a dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Inspection:** Periodically inspect the wiring connections to ensure they are secure and free from damage.

9. Troubleshooting

If you encounter issues with your Fafeicy Multifunctional Electricity Monitor, refer to the following common problems and solutions:

- **No Display/No Power:**
  - Check if the power supply to the monitor is connected correctly and is within the specified voltage range (110~250V).
  - Ensure all wiring connections are secure.
- **Inaccurate Readings:**
  - Verify that the current transformer (CT) is installed correctly around the live wire only.
  - Ensure the CT wires are connected to the monitor with correct polarity.
  - Confirm that the load being measured is within the monitor's current range (0.00~100A).
  - Remember that the monitor measures active power, not apparent power.
- **Backlight Not Working:**
  - Short press the button to toggle the backlight on. It might have been turned off manually.
- **Alarm Flashing Continuously:**
  - The measured power is exceeding the preset overload power value. Reduce the load or adjust the overload power setting (long press for 3 seconds).

If the problem persists after trying these steps, please contact customer support.

10. Warranty and Support

This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions, including the duration and coverage details.

For technical support, troubleshooting assistance, or warranty claims, please contact Fafeicy customer service through the retailer where the product was purchased or visit the official Fafeicy website for contact information.

Please have your model number (Fafeicy5i79xch2yv) and purchase date available when contacting support.

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