

POCREATION PZEM-022

POCREATION PZEM-022 Power Meter Instruction Manual

Model: PZEM-022

1. INTRODUCTION

The POCREATION PZEM-022 Power Meter is designed for comprehensive AC power monitoring, providing real-time measurement of various electrical parameters. This device is suitable for home use to enhance electrical safety and manage energy consumption efficiently.

Key Features:

- **Electrical Parameter Measurement:** Accurately measures voltage, current, active power, energy, frequency, and power factor.
- **Overload Alarm Function:** Alerts users if power exceeds preset thresholds with a flashing display and backlight.
- **Power Alarm Threshold Preset:** Allows customization of power alarm thresholds.
- **Energy Reset Function:** Enables resetting of energy usage data with a simple key press.
- **Data Storage:** Retains data even during power outages for long-term monitoring.
- **User-friendly Display:** Features a large-screen LCD with adjustable backlight and intuitive key functions.

COMPREHENSIVE AC POWER MONITORING WITH 100A CT



MEASURES SIX
ELECTRICAL
PARAMETERS



OVERLOAD ALARM
WITH FLASHING
DISPLAY



MANUAL ENERGY
RESET FUNCTION



DATA RETENTION
DURING POWER-OFF

Image 1.1: Overview of the PZEM-022 Power Meter highlighting its key features including electrical parameter measurement, overload alarm, manual energy reset, and data retention.

2. SETUP AND INSTALLATION

Safety Precautions:

- This module is designed for indoor use only. Do not install or operate outdoors.
- Ensure the applied load does not exceed the rated power of 100A/22000W.
- Wiring order is critical. Incorrect wiring can damage the device or pose a safety hazard.
- Installation should be performed by a qualified electrician or under professional supervision.
- Always disconnect power before installation or maintenance.

Wiring Instructions:

The PZEM-022 Power Meter requires connection to the AC power supply and integration with a Closed Type Current

Transformer (CT) for current measurement. Follow the diagram carefully.

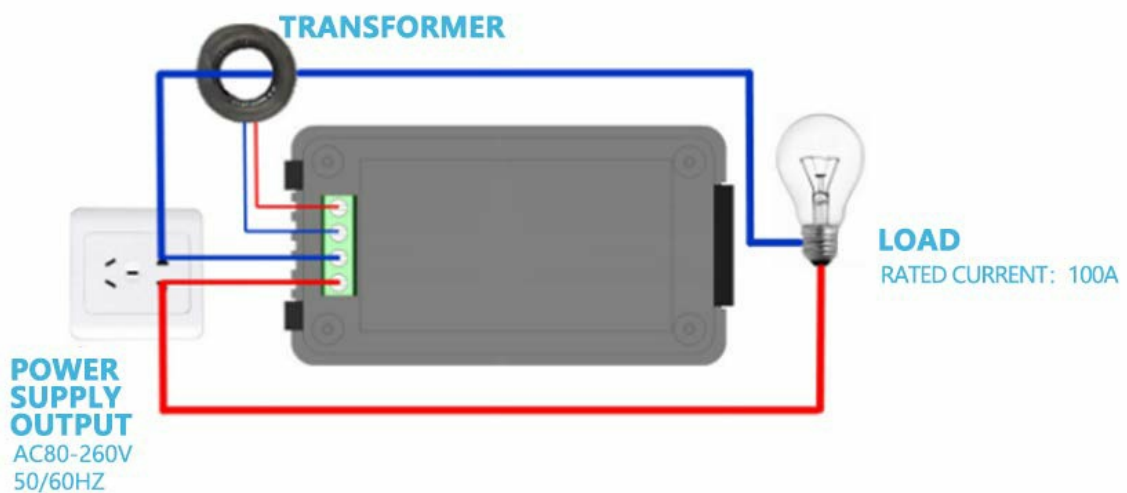


Image 2.1: Wiring diagram showing connections for the power supply, the PZEM-022 meter, the current transformer (CT), and the load. Ensure correct polarity and connection points.

1. Connect the AC power supply (80-260V, 50/60Hz) to the designated input terminals of the meter.
2. Pass the load wire through the Closed Type CT. Ensure the direction of the current flow through the CT matches the meter's requirements (usually indicated by an arrow on the CT).
3. Connect the CT output wires to the corresponding terminals on the meter.
4. Connect the load to the output side of the circuit.
5. Double-check all connections before restoring power.

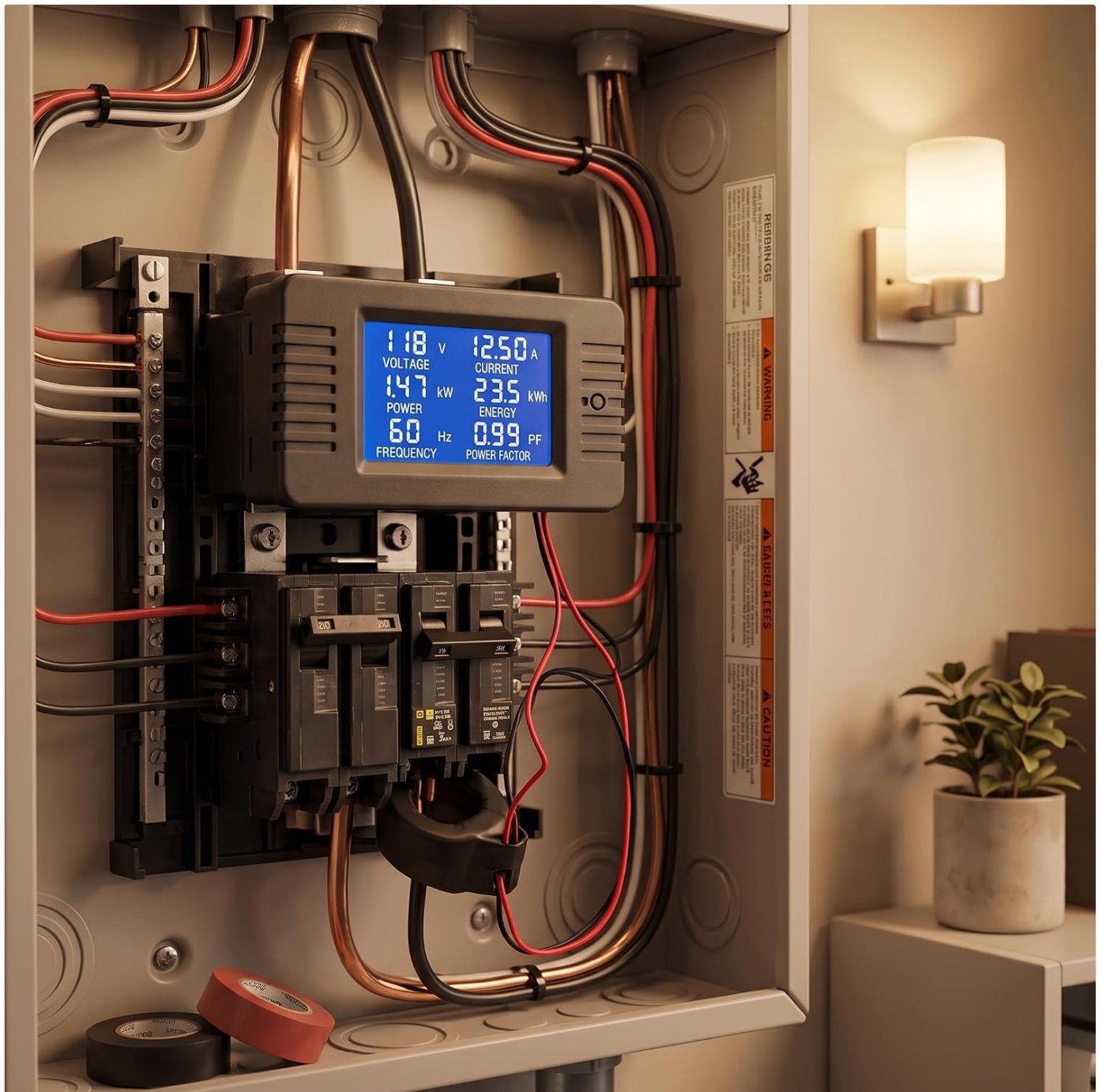


Image 2.2: Example installation of the PZEM-022 Power Meter within an electrical panel, demonstrating typical wiring and placement.

3. OPERATION

Display Interface:

The large-screen LCD simultaneously displays six electrical parameters:

- Voltage (V)
- Current (A)
- Power (W/kW)
- Energy (Wh/kWh)
- Frequency (Hz)
- Power Factor (PF)

POWER METER

PEACEFAIR PZEM-022 AC DIGITAL METER POWER ENERGY
VOLTAGE CURRENT TESTER WITH CLOSED TYPE CT 100A

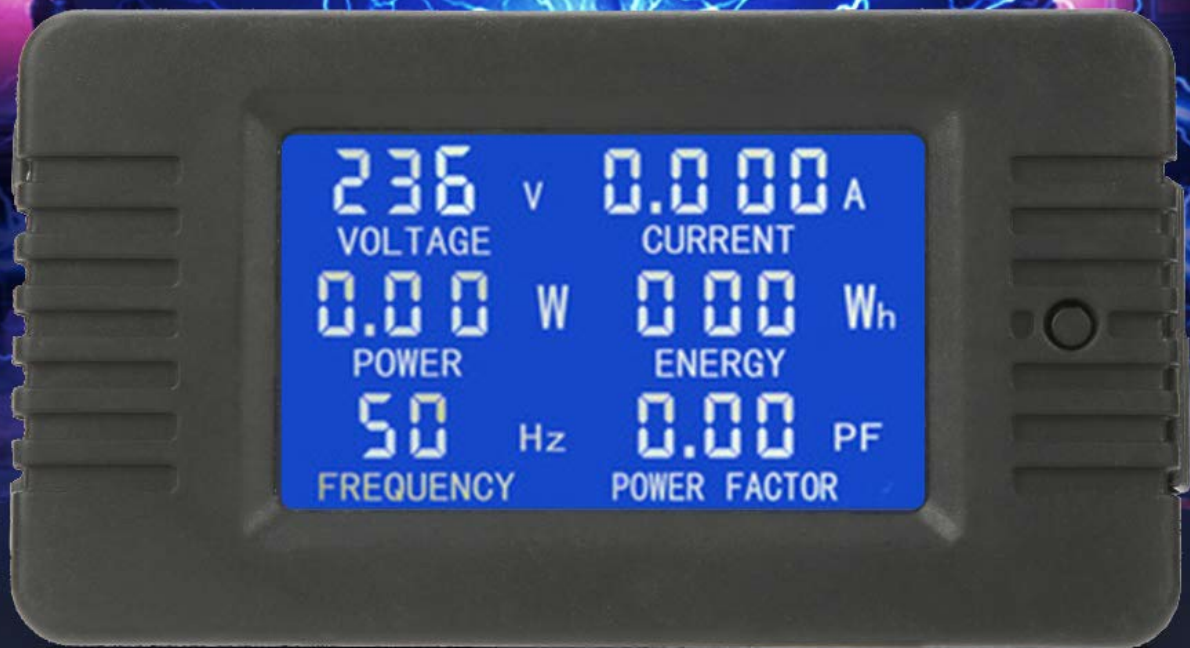


Image 3.1: Close-up view of the PZEM-022 Power Meter's LCD, showing the simultaneous display of voltage, current, power, energy, frequency, and power factor.

Parameter Reading and Display Format:

- **Power:** Test range 0~22000W. Starting measure power: 0.5W. Displays in W or kW based on value.
- **Energy:** Test range 0~999kWh. Displays in Wh or kWh based on value.
- **Voltage:** Test range 80~260V.
- **Current:** Test range 0~100A. Starting measure current: 0.002A.
- **Frequency:** Test range 45~65Hz.
- **Power Factor:** Test range 0~1PF.

Overload Alarm Function:

When the measured power exceeds the preset alarm threshold, the meter's backlight will flash, and the power indicator will blink to alert the user of an overload condition.

Energy Reset Function:

To reset the accumulated energy (kWh) data, press and hold the designated key on the meter until the energy reading clears. This function allows for monitoring energy consumption over specific periods.

Backlight Adjustment:

The meter features an adjustable backlight for improved visibility in various lighting conditions. Refer to the device's physical buttons for backlight control, typically a short press of a specific button.

4. MAINTENANCE

- Keep the meter clean and free from dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- Ensure the meter is installed in a dry environment, away from direct sunlight and extreme temperatures.
- Regularly check wiring connections for tightness and signs of wear or damage.
- Do not attempt to open the meter casing, as this may void the warranty and expose you to electrical hazards.

5. TROUBLESHOOTING

Common Issues and Solutions:

- **No Display:**
 - Check if the power supply is connected correctly and within the operating voltage range (80-260VAC).
 - Ensure all wiring connections are secure.
- **Incorrect Readings (Current/Power):**
 - Verify that the Closed Type CT is installed correctly and the load wire passes through it in the correct direction.
 - Ensure the CT output wires are connected to the correct terminals on the meter.
- **Overload Alarm Constantly Active:**
 - Check the connected load to ensure it does not exceed the meter's rated power (22000W).
 - Review the preset power alarm threshold. Adjust if necessary.
- **Energy Data Not Resetting:**
 - Ensure you are pressing and holding the energy reset key for the required duration.

If issues persist after following these steps, contact customer support for further assistance.

6. SPECIFICATIONS

DIMENSION DIAGRAM (MM)

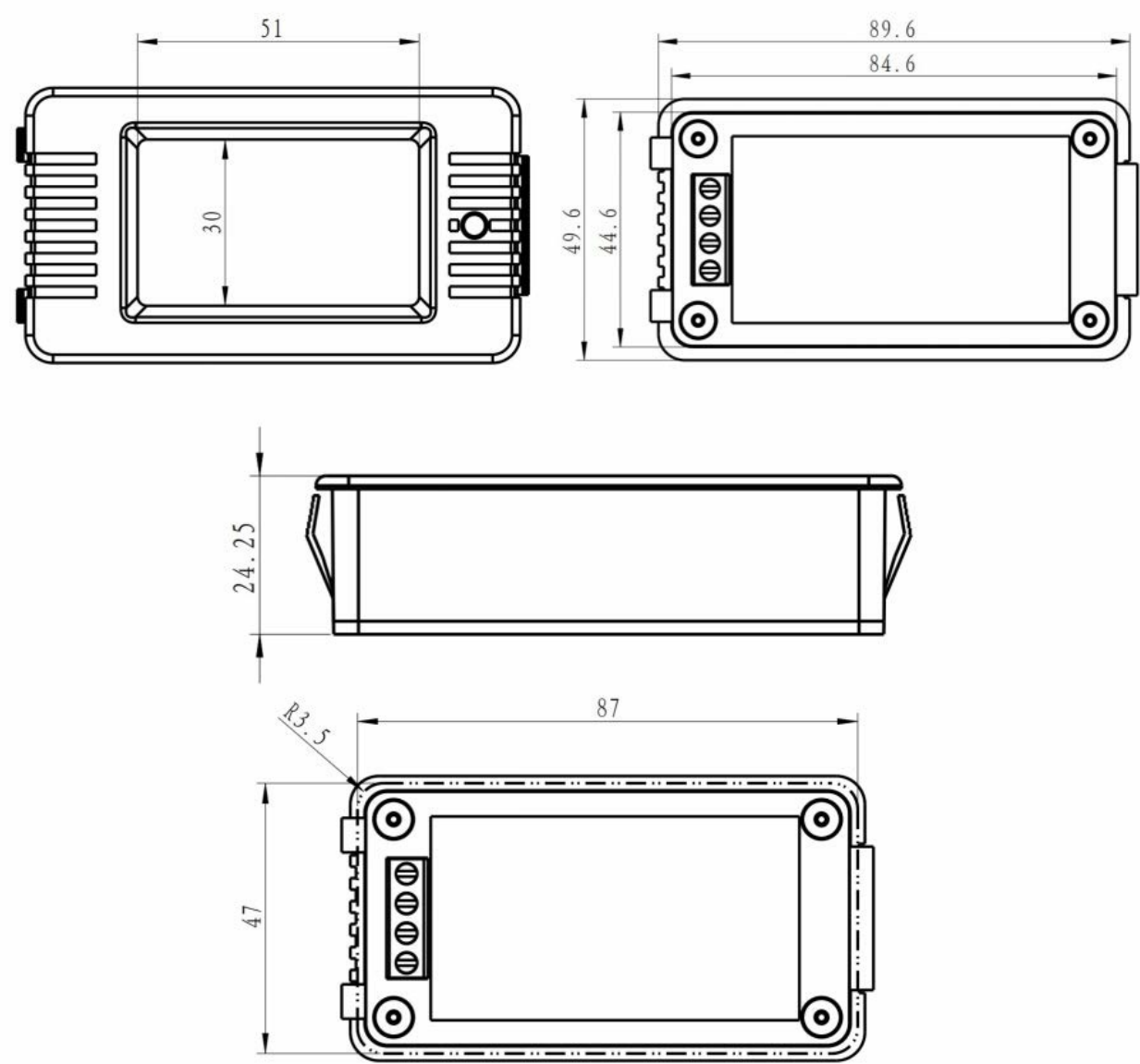


Image 6.1: Technical dimension diagram of the PZEM-022 Power Meter, showing measurements in millimeters.

Parameter	Value
Brand	POCREATION
Model	PZEM-022
Working Voltage	80 ~ 260VAC
Test Voltage	80 ~ 260VAC
Current	100A
Rated Power	100A/22000W
Operating Frequency	45-65Hz
Measurement Accuracy	1.0 grade

Parameter	Value
Size	9 x 5 x 2.5 cm (3.5 x 2 x 1 in)
Wire Length	19 cm (7.5 in)
Weight	Approx. 110g (3.9oz)
Power Source	Corded Electric

Package Contents:

- 1 x AC Multifunction Digital Meter (PZEM-022)
- 1 x Closed Type Current Transformer (CT)

7. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact POCREATION customer service through the retailer where the product was purchased. Keep your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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