

## Eujgoov DDS109L

# Eujgoov DDS109L Electricity Usage Monitor Power Meter

### INSTRUCTION MANUAL

Model: DDS109L | Brand: Eujgoov

## 1. Introduction

The Eujgoov DDS109L Power Meter is a monitoring and testing instrument designed to measure the power consumption of connected appliances and calculate the associated electricity cost. This device helps users understand and manage their energy usage, potentially leading to reduced consumption and cost savings. It features a large, high-definition LCD digital display for intuitive viewing of measured values such as power consumption, voltage, current, and timing. The meter also includes an overload alarm function for safety.

## 2. Product Overview



Figure 1: Front view of the Eujgoov DDS109L Power Meter, showing the LCD display, control buttons, and EU standard socket.

The DDS109L Power Meter is equipped with a large LCD screen and four control buttons: **FUNC**, **COST**, **UP**, and **DOWN**. It incorporates a built-in 3.6V rechargeable Ni-MH battery to retain memory settings and accumulated electricity data during power outages.

### Key Features:

- **Energy Consumption Monitoring:** Helps reduce energy consumption and save money.
- **Automatic Electricity Bill Calculation:** Measures electricity consumption, voltage, current, and timing of electrical appliances.
- **Large LCD Digital Display:** High-definition display for clear and intuitive reading of measured values.
- **Overload Alarm:** Flashes an "overload alarm" icon when current exceeds 16A or power exceeds 1800W.
- **Low Energy Consumption Threshold:** Time accumulation is paused if detected power is below 1.0W.

### 3. Setup

1. **Unpacking:** Carefully remove the power meter from its packaging. Inspect the device for any visible damage.

2. **Initial Power-On:** Plug the Eujgoov DDS109L Power Meter into a standard EU wall socket. The entire LCD display will illuminate for approximately 1 minute before automatically entering Mode 1.
3. **Battery Charging:** The internal battery charges automatically when the device is plugged into a live socket. Ensure the device is plugged in for several hours initially to fully charge the battery for memory retention.



## Power Meter

Measuring power consumption, voltage, current, timing, etc. of appliances

Figure 2: Detail of the EU standard plug on the Eujgoov DDS109L Power Meter.

## 4. Operating Instructions

The device operates in various display modes, which can be cycled through by pressing the **FUNC** button.

### Navigating Display Modes:

Press the **FUNC** button to switch between the different measurement display modes.

### Display Modes Explained:

#### 1. Mode 1: Time/Watt/Cost Display

- **First Line:** Displays connection duration (0:00 for minutes:seconds, then hours:minutes after 60

minutes).

- **Second Line:** Displays current power (0.0W-9999W).
- **Third Line:** Displays total electricity cost (0.00E/KWH-99.99E/KWH).

## 2. Mode 2: Time/Cumulative Electrical Quantity Display

- **First Line:** Displays connection duration (0:00 for minutes:seconds, then hours:minutes).
- **Second Line:** Displays cumulative electrical quantity (0.000KWH-9999KWH).
- **Third Line:** Displays 'DAY---' indicating total cumulative time in days (up to 9999 days).

## 3. Mode 3: Time/Voltage/Frequency Display

- **First Line:** Displays connection duration (same as Mode 1).
- **Second Line:** Displays current voltage supply (0.0V-9999V).
- **Third Line:** Displays current frequency (0.0HZ-9999HZ).

## 4. Mode 4: Time/Current/Power Factor Display

- **First Line:** Displays connection duration (same as Mode 1).
- **Second Line:** Displays load current (0.000A-9999A).
- **Third Line:** Displays current power factor (0.00PF-1.00PF).

## 5. Mode 5: Time/Minimum Power Display

- **First Line:** Displays connection duration (same as Mode 1).
- **Second Line:** Displays the minimum power recorded (0.0W-9999W).
- **Third Line:** Displays 'Lo'.

## 6. Mode 6: Time/Maximum Power Display

- **First Line:** Displays connection duration (same as Mode 1).
- **Second Line:** Displays the maximum power recorded (0.0W-9999W).
- **Third Line:** Displays 'Hi'.

## 7. Mode 7: Time/Price Display

- **First Line:** Displays connection duration (same as Mode 1).
- **Third Line:** Displays current price per KWH (0.00E/KWH-99.99E/KWH).

## Setting the Price:

1. In Mode 7 (Time/Price Display), press and hold the **COST** button for more than 3 seconds. The small 'COST' character on the bottom right of the LCD will flash, indicating entry into price setting mode.
2. Press the **FUNC** button to select the digit you wish to set. The selected digit will flash.
3. Use the **UP** or **DOWN** buttons to change the value of the flashing digit.
4. Press the **COST** button again to confirm the setting and exit the price setting mode.



Figure 3: Close-up of the instruction manual provided with the Eujooov DDS109L Power Meter, detailing display modes and settings.

## 5. Maintenance

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the power meter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** The built-in battery is designed for memory retention. For optimal battery life, ensure the device is regularly plugged in to allow the battery to charge.

## 6. Troubleshooting

- **No Display / Abnormal Display:** If the LCD does not show any information or displays incorrectly, or if the buttons are unresponsive, the instrument may need to be reset. To do this, locate and press the **RESET** button (usually a small pinhole button).
- **Overload Alarm Flashing:** If the "overload alarm" icon flashes, it indicates that the connected appliance is drawing more than 16A of current or consuming over 1800W of power. Disconnect the appliance immediately to prevent damage to the meter or the appliance.

- **Time Not Accumulating for Low Power:** If an appliance consumes less than 1.0W, the device considers this local energy consumption, and the operating time will not be accumulated. This is normal behavior.

## 7. Specifications

Parameter	Value
Model	DDS109L
Plug Type	EU Standard
Display Mode	LCD Digital Display
Operating Voltage	230-250 V AC
Frequency Display	50 Hz
Wide Voltage Range	230V-250V
Maximum Operating Current	16 A
Power Display Range	0W-3680W
Current Display Range	0.0A-16.0A
Price Display Range	0.00E/KWH-99.99E/KWH
Total KWH and Cost Display	0.000KWH-9999KWH, 0.00E-9999E
Built-in Battery	1.5 V Lithium Battery, 2400 mAh
Product Dimensions (L x W x H)	1 x 1 x 1 cm (approximate)





Figure 4: Back view of the Eujgoov DDS109L Power Meter, showing regulatory marks and some specifications.

## 8. Warranty and Support

Specific warranty information is not provided in the product details. For warranty claims or technical support, please contact the retailer or manufacturer directly. Keep your purchase receipt as proof of purchase.

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