DEWIN IRBDYAYAB-GS109528-01

DeWin Digital Energy Meter Plug (Wattmeter) - Model IRBDYAYAB-GS109528-01

User Instruction Manual

Introduction

Thank you for choosing the DeWin Digital Energy Meter Plug. This device is designed to help you monitor the electricity consumption of your household appliances, enabling you to understand and manage your energy usage more effectively. It features a clear LCD display, multiple monitoring modes, and essential safety functions like overload protection.

Safety Information

- **Overload Protection:** The energy meter plug is equipped with an overload protection feature. If the connected load exceeds 3680W, the display will show "OVERLOAD" and an audible alarm will sound. Simultaneously, the meter will cut off the power supply to ensure safety.
- Do not exceed the maximum rated current of 16A or power of 3680W.
- Ensure the device is used in a dry environment and avoid contact with water or other liquids.
- Do not disassemble or attempt to repair the device yourself. Contact qualified personnel for service.
- Keep out of reach of children. The safety socket design helps prevent accidental insertion by children.



Image: The energy meter plug displaying an "OVERLOAD" warning on its screen, indicating that the connected appliance has exceeded the safe power limit of 3680W. This feature automatically cuts power for safety.

Product Overview

The DeWin Energy Meter Plug features a compact design with an intuitive LCD display and control buttons for easy operation.



Name:	Household Smart Energy Meter	**Frequency display:**	47~63Hz
Type:	European plug	**Wide voltage range:**	AC 180-250V
Rated voltage:	230V	**Power display:**	0-9999W
Rated current:	16A	**Current display:**	0-9999A

Image: Front and side views of the DeWin Energy Meter Plug, showing its compact dimensions (125mm height, 60mm width, 55mm depth) and European plug type. The LCD screen and control buttons are visible on the front.

Components:

- **LCD Display:** Large, clear screen with backlight for easy reading of data, even in low light conditions. The backlight automatically turns off after 10 seconds of inactivity.
- **Control Buttons: FUNC**, **COST**, **UP**, **DOWN** for navigating modes and setting parameters.
- **European Plug (Type E/F):** For connecting to standard EU wall sockets.
- **Socket:** For connecting your appliance. Features safety shutters to prevent accidental insertion.





Image: A close-up view of the DeWin Energy Meter Plug, highlighting the LCD screen and the four control buttons: FUNC, COST, UP, and DOWN. The European-style socket with safety features is also visible.



Image: The DeWin Energy Meter Plug plugged into a wall socket in a dimly lit room, demonstrating its clear, backlit LCD display that makes readings easily visible day or night.

Internal Features:

- **High Conductivity Copper Plate:** Ensures efficient and reliable electrical connection.
- **Safety Socket:** Designed to prevent children from inserting objects by mistake, requiring a force equivalent to 7.5 kg to open the safety door.
- **Strong Flame Retardant Material:** Constructed from flame-retardant engineering plastics for enhanced safety.



Image: A diagram illustrating the internal safety features of the energy meter plug, including the high conductivity copper plate, the safety socket designed to prevent accidental insertion, and the use of strong flame-retardant materials for the casing.

Setup

1. **Unpack:** Carefully remove the energy meter plug from its packaging.
2. **Plug In:** Insert the energy meter plug into a standard 230V European wall socket.
3. **Connect Appliance:** Plug the appliance you wish to monitor into the socket of the energy meter plug.
4. **Power On:** Ensure the appliance is switched on. The energy meter's LCD display should illuminate, showing initial readings.

Operating Modes

The DeWin Energy Meter Plug offers 7 monitoring modes to provide comprehensive data on your appliance's electricity consumption. Press the **FUNC** button to cycle through these modes.

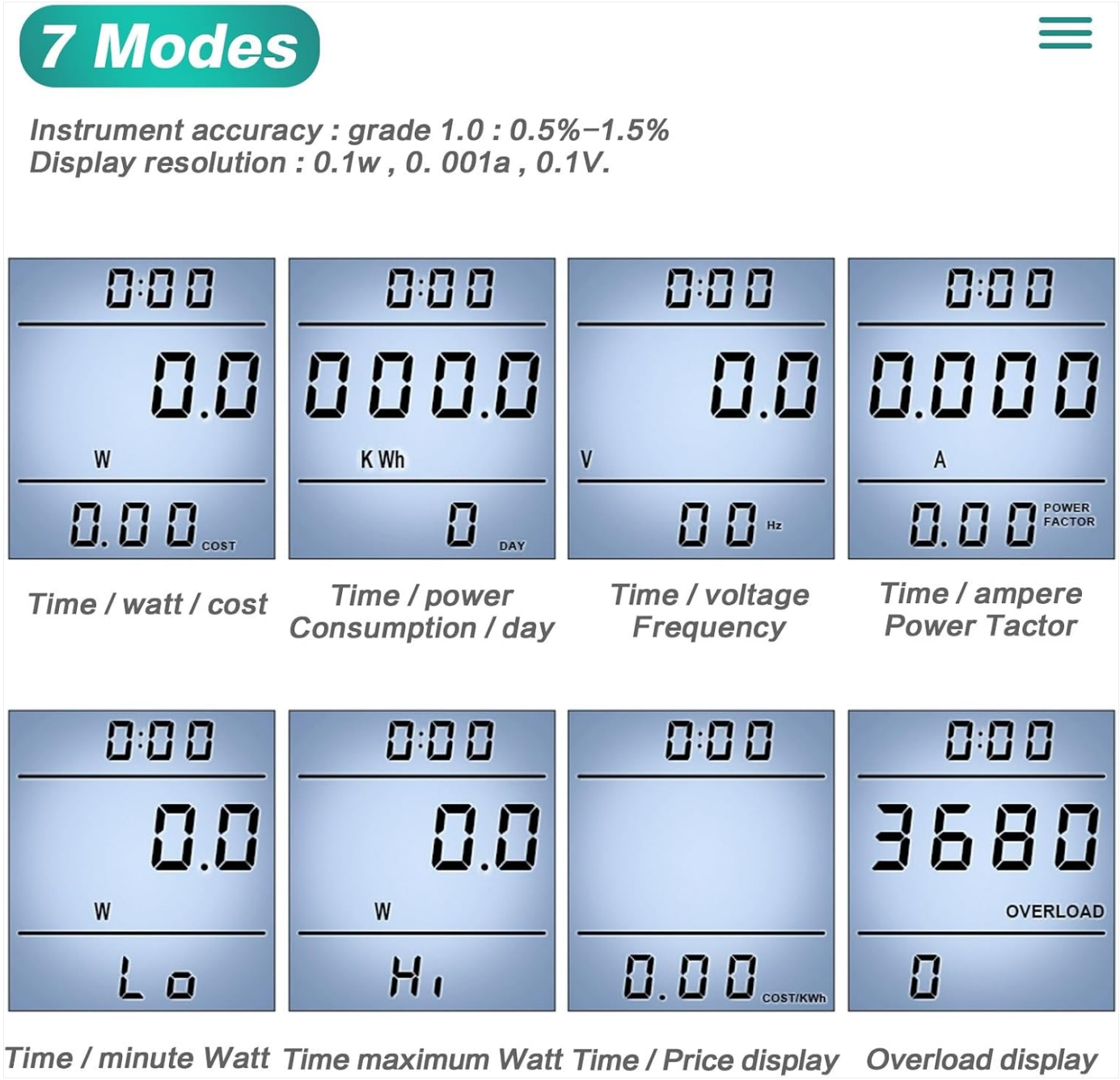


Image: A visual representation of the 7 different display modes available on the energy meter. Each mode shows specific parameters like time, power (watts), cost, accumulated energy (kWh), voltage, current (amperes), frequency (Hz), power factor, and maximum/minimum power.

1. **Time** / **Watt** / **Cost:** Displays the operating time, real-time power consumption in Watts, and the current cost.
2. **Time** / **Power Consumption** / **Day (kWh):** Shows the operating time and accumulated energy consumption in kWh. Note: For intermittent appliances like freezers, the power cannot be calculated directly based on continuous operation time.
3. **Time** / **Voltage** / **Frequency:** Displays the operating time, real-time voltage (V), and frequency (Hz).
4. **Time** / **Ampere** / **Power Factor:** Shows the operating time, real-time current (A), and power factor.
5. **Time** / **Minute Watt (Minimum Power):** Displays the operating time and the minimum recorded power consumption in Watts.
6. **Time** / **Maximum Watt (Maximum Power):** Displays the operating time and the maximum recorded power consumption in Watts.
7. **Time** / **Price Display (Cost/kWh):** Allows setting and displaying the unit price of electricity (Euro/KWH).

Setting Electricity Price (Dual Tariff):

The meter supports two tariffs, allowing you to set different electricity prices for different times of the day or specific periods. This

helps in more accurate cost monitoring.

- Press the **COST** button to enter the price setting mode.
- Use the **UP** and **DOWN** buttons to adjust the unit price (Euro/KWH).
- Follow on-screen prompts to set Tariff 1 and Tariff 2 if applicable.

Resetting Data:

To clear all accumulated data (time, cost, kWh), press and hold the **FUNC** button for a few seconds until the display resets.



Image: Examples of household appliances such as washing machines, coffee machines, ovens, toasters, game consoles, and televisions, illustrating the wide range of devices that can be monitored with the energy meter plug to help reduce energy consumption.

Maintenance

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

temperatures.

- **Inspection:** Periodically check the plug and socket for any signs of damage or wear.

Troubleshooting

Problem	Possible Cause	Solution
Display is blank or not turning on.	No power from the wall socket; device not properly plugged in.	Ensure the meter is securely plugged into a live wall socket. Check the wall socket with another appliance.
"OVERLOAD" message appears and power cuts off.	Connected appliance exceeds the maximum power rating (3680W).	Unplug the appliance. Reduce the load or use an appliance within the meter's power limits.
Readings seem inaccurate.	Incorrect settings; device malfunction.	Ensure electricity price settings are correct. Try resetting the device (hold FUNC button). If problem persists, contact support.
Backlight turns off too quickly.	Normal operation.	The backlight is designed to turn off automatically after 10 seconds of inactivity to save power. Press any button to reactivate.

Specifications

Model Number	IRBDYAYAB-GS109528-01
Type	EU Plug (Type E/F)
Rated Voltage	230 V AC
Rated Current	16 A
Frequency Display	47-63 Hz
Wide Voltage Range	AC 180-250 V
Power Display Range	0-9999 W
Current Display Range	0-9999 A
Price Display Range	0.00 Euro/KWH - 99.99 Euro/KWH
Total kWh & Cost Display	0.000 KWH - 9999 KWH; 0.00 EUR - 9999 EUR
Dimensions (approx.)	14.6 x 8.4 x 6.8 cm
Weight (approx.)	170 g



Image: An infographic highlighting the various measurement capabilities of the DeWin Energy Meter Plug, including electricity, current, voltage, power, power factor, electricity bill calculation, time counting, frequency measurement, instantaneous maximum/minimum power, and overload alarm testing.

Warranty and Support

DeWin products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your purchase or contact your retailer. If you encounter any issues or have questions regarding your DeWin Digital Energy Meter Plug, please contact customer support through your purchase platform or the official DeWin website.

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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.

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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