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## DEWIN IYRQREIQI-GS109760

# DEWIN Digital 6-in-1 Single-Phase DIN Rail Energy Meter

Model: IYRQREIQI-GS109760

## Introduction

Thank you for choosing the DEWIN Digital 6-in-1 Single-Phase DIN Rail Energy Meter. This device is designed to accurately measure and display various electrical parameters in AC 40-300V systems. This manual provides essential information for safe installation, operation, and maintenance of your energy meter.




Image: Front view of the DEWIN Digital Energy Meter, showing its multi-color LCD display with readings for power, energy, voltage, frequency, current, and power factor.

## Product Features

- **6-in-1 Measurement:** Simultaneously displays Voltage (AC 40-300V), Current (0-100A), Power (0-45000W), Electrical Energy (0-9999 Kwh), Frequency (45-65Hz), and Power Factor (0-1 PF).
- **High-Definition LCD Display:** Features a color HD LCD screen with 6 different colors for clear data visualization. Offers a 178° wide viewing angle and backlight function for excellent visibility day and night.
- **Automatic Data Storage:** Automatically saves the last energy data when power is interrupted. Data accumulation continues upon power restoration, preventing loss.
- **Easy Installation:** Designed for standard 35mm DIN rail mounting, requiring no screws for installation. Suitable for both indoor and outdoor environments.
- **Durable Construction:** Made from high-quality PC flame-retardant material, ensuring safety and reliability.
- **Wide Application:** Ideal for electrical energy measurement systems in residential, commercial, industrial, and laboratory settings.

## Specifications

| Parameter | Value |
|---|---|
| Voltage Range | AC 40-300 V |
| Current Range | 0-100 A |
| Power Range | 0-45000 W |
| Electrical Energy Range | 0-9999 Kwh |
| Frequency Range | 45-65 Hz |
| Power Factor | 0-1 PF |
| Type | Built-in CT |
| Dimensions | 8 x 6.4 x 5.4 cm (approx.) |
| Material | PC Flame Retardant |
| Model Number | IYRQREIQI-GS109760 |




| | | | |
|---|---|---|---|
| Material: | PC flame retardant Material | Electric energy: | 0-9999Kwh |
| Voltage: | AC 40-300V | Frequency: | 45-65Hz |
| Current: | 0-100A | Power factor: | 0-1PF |
| Power: | 0-45000W | Type: | Built-in CT |

Image: Diagram showing the physical dimensions of the meter and a summary of its technical specifications.

## Setup and Installation

The DEWIN Digital Energy Meter is designed for easy installation on a standard 35mm DIN rail. No special tools or screws are typically required for mounting.

1. **Safety First:** Ensure that the main power supply to the circuit where the meter will be installed is completely turned off before beginning any installation work. Use appropriate personal protective equipment.
2. **Mounting:** Locate a standard 35mm DIN rail within your electrical distribution box or desired installation area. Align the meter with the DIN rail and press firmly until it clicks into place.
3. **Wiring:** Connect the input and output wires according to the wiring diagram. The meter features an integrated current transformer (CT). Ensure correct polarity for voltage and current connections. Refer to the diagram below for guidance.
4. **Secure Connections:** Tighten all terminal screws securely to prevent loose connections, which can cause overheating or inaccurate readings.
5. **Power On:** Once all connections are secure and verified, restore power to the circuit. The meter display should illuminate and begin showing readings.

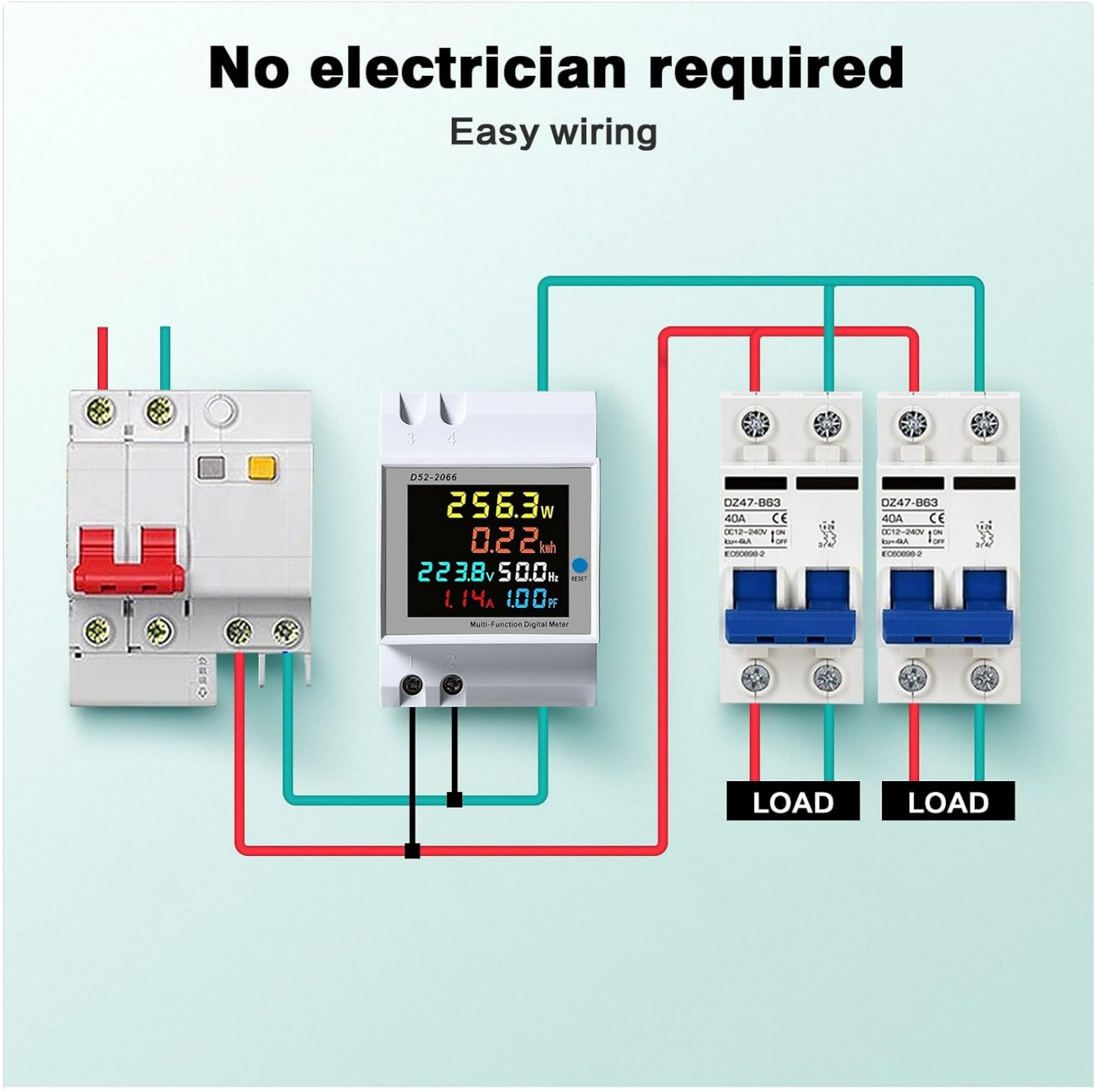



Image: Simplified wiring diagram showing how to connect the energy meter to a circuit with circuit breakers and loads. Input and output terminals are clearly marked.




Image: The energy meter mounted on a DIN rail inside a typical electrical distribution box, demonstrating a common installation scenario.

## Operating Instructions

The DEWIN Digital Energy Meter is designed for straightforward operation, providing real-time data at a glance.

- **Power On:** Once correctly installed and power is supplied, the meter's LCD screen will automatically illuminate and display the current electrical parameters.
- **Reading Data:** The multi-color display shows Voltage (V), Current (A), Power (W), Electrical Energy (Kwh), Frequency (Hz), and Power Factor (PF) simultaneously. Readings are updated in real-time.
- **Energy Data Storage:** The meter automatically stores the accumulated electrical energy (Kwh) data even if power is disconnected. This data will continue to accumulate from the last recorded value when power is restored.
- **Resetting Energy Data:** To clear the accumulated electrical energy (Kwh) data, locate the small "RESET" button on the front panel of the meter. Press and hold this button for approximately five seconds until the Kwh reading resets to zero. This action only resets the energy accumulation, not other parameters.

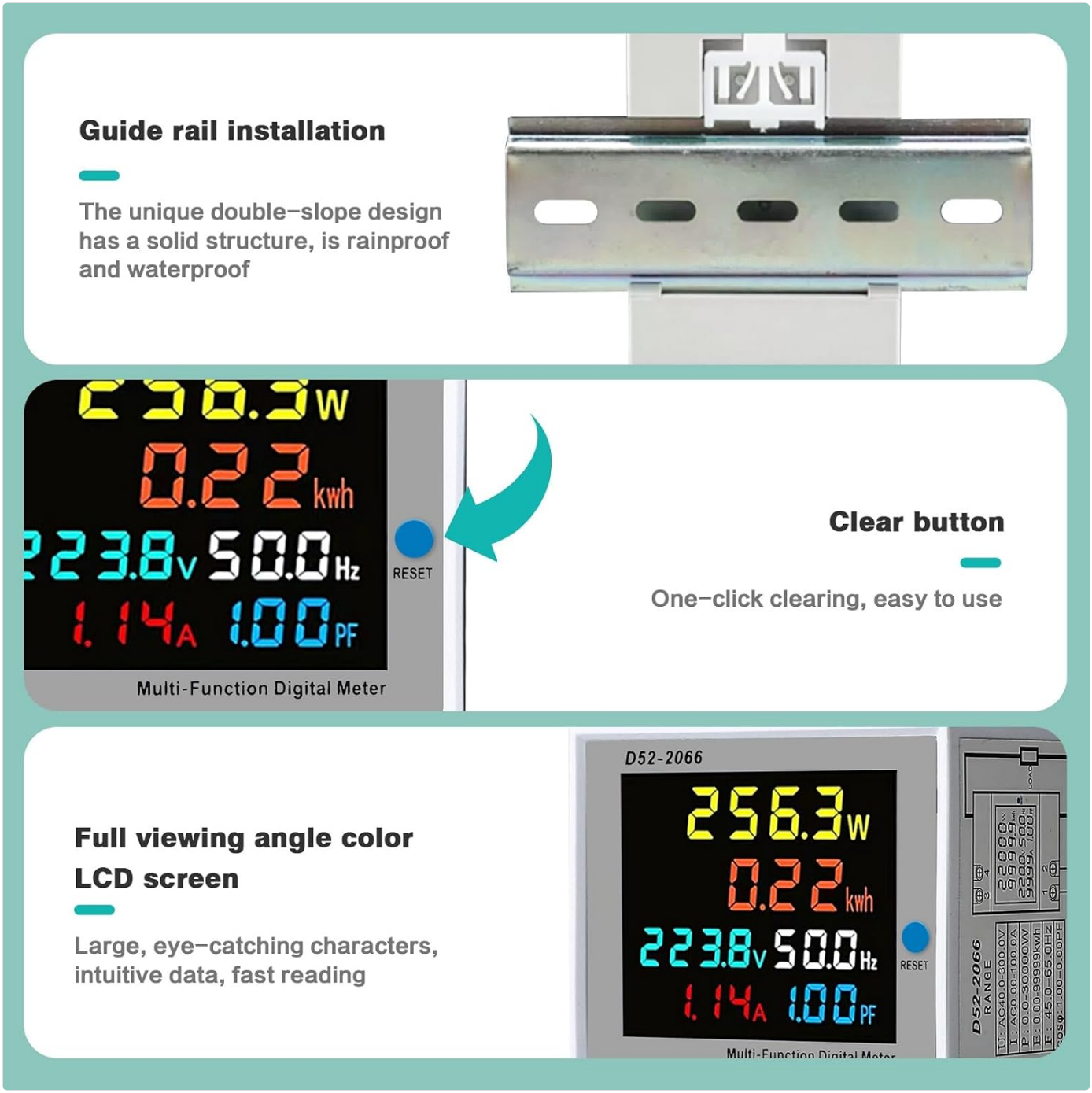



Image: A close-up view of the meter's LCD screen highlighting the "RESET" button and the clear, multi-color display of electrical parameters.

## Maintenance

The DEWIN Digital Energy Meter is designed for minimal maintenance. Follow these guidelines to ensure its longevity and accurate performance:

- **Cleaning:** Use a soft, dry cloth to clean the meter's display and casing. Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the device.
- **Environmental Conditions:** Ensure the meter is operated within its specified environmental conditions (temperature, humidity) to prevent damage. While suitable for indoor and outdoor use, protect it from direct exposure to extreme weather conditions if installed outdoors without adequate enclosure.
- **Inspections:** Periodically check the wiring connections to ensure they remain tight and free from corrosion. Any signs of damage to the casing or wiring should be addressed immediately by a qualified electrician.
- **No User Serviceable Parts:** The meter contains no user-serviceable parts. Do not attempt to open or repair the device, as this will void the warranty and may pose a safety risk.

## Troubleshooting

If you encounter issues with your DEWIN Digital Energy Meter, refer to the following common troubleshooting steps:

- **No Display/Power:**
  - Check if the main power supply to the circuit is active.
  - Verify all wiring connections are secure and correctly installed according to the diagram in the "Setup and Installation" section.
  - Ensure the input voltage is within the specified AC 40-300V range.
- **Inaccurate Readings:**
  - Confirm that the current transformer (CT) is correctly installed and the wiring polarity is correct.
  - Ensure there are no loose connections at the terminals.
  - Compare readings with another calibrated meter if available to confirm accuracy.
- **Energy (Kwh) Reading Not Resetting:**
  - Ensure you are pressing and holding the "RESET" button for the full five seconds. A short press will not reset the value.
- **Display Flickering or Irregular:**
  - Check for stable power supply. Fluctuations in voltage can affect display stability.
  - Ensure the meter is not exposed to extreme temperatures or humidity.

If problems persist after following these steps, please contact customer support.

## Warranty and Support

DEWIN products are manufactured to high-quality standards. While specific warranty details are not provided in this manual, typically, electronic devices come with a standard manufacturer's warranty against defects in materials and workmanship.

- **Warranty Claims:** For warranty inquiries or to report a defective product, please contact your point of purchase or the DEWIN customer service department. Keep your purchase receipt as proof of purchase.
- **Technical Support:** If you require technical assistance or have questions not covered in this manual, please reach out to DEWIN customer support. Contact information can usually be found on the product packaging or the official DEWIN website.
- **Online Resources:** Visit the official DEWIN website for potential FAQs, updated manuals, or additional support resources.

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