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DEWIN QBRYYBXAI-GS110474Z

DEWIN WiFi Smart Energy Meter Instruction Manual

Model: QBRYYBXAI-GS110474Z

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEWIN WiFi Smart Energy Meter. This device is designed to monitor energy consumption and offers multiple protection features, along with remote control capabilities via a mobile application. Please read this manual thoroughly before use to ensure safe and efficient operation.

The DEWIN Smart Energy Meter is suitable for various DIN rail installation scenarios, including schools, rental properties, supermarkets, hotels, and offices where electricity monitoring is required.



Image 1.1: DEWIN WiFi Smart Energy Meter and its mobile application interface.

2. Product Overview

2.1 Key Features

- **Self-Reset Function:** Automatically saves energy values when the device is powered off, allowing for immediate data collection upon restart.
- **Digital Color Display:** Intuitively displays four key data points: voltage, current, energy, and power, ensuring clear visibility day and night.
- **Multiple Protections:** Includes overvoltage, undervoltage, overcurrent, leakage, and temperature protection for enhanced safety and efficiency.

- **WiFi Remote Control:** Control the device anytime, anywhere via a mobile phone application, provided there is a signal.
- **Timing Functions:** Supports timing, countdown, and cycle timing modes for automated control.

2.2 Product Components and Design

The DEWIN Smart Energy Meter features a robust design with a shell made of PC material, ensuring durability and safety. It incorporates ABS flame-retardant material for added protection.



Image 2.1: Key design features including PC material shell and safety aspects.



Image 2.2: Detailed view of the guide rail installation mechanism, physical buttons, and the LCD digital display.

3. Specifications

Refer to the following table for detailed technical specifications of the DEWIN WiFi Smart Energy Meter:

Parameter	Value
Material	ABS Flame Retardant Material
Rated Voltage	230V AC (80-300V available)
Power Indicator Range	0-9999 kWh
Undervoltage Protection	AC 145-210V (Adjustable: default 175V)
Overvoltage Protection	AC 240-300V (Adjustable: default 275V)
Overcurrent Protection	1-63A (Adjustable: default 63A)

Parameter	Value
Leakage Protection Value	10-99 mA
Reconnection Time	10-99s (Default 30s)
Time Control Range	1 minute - 168 hours
Number of Timing Groups	30 On / 30 Off
Over-temperature Protection	-30-70°C
Timing Modes	Timing Mode / Countdown Mode / Cycle Timing Mode
Dimensions (approx.)	8.5cm (L) x 3.65cm (W) x 6.55cm (H)
Weight (approx.)	180g

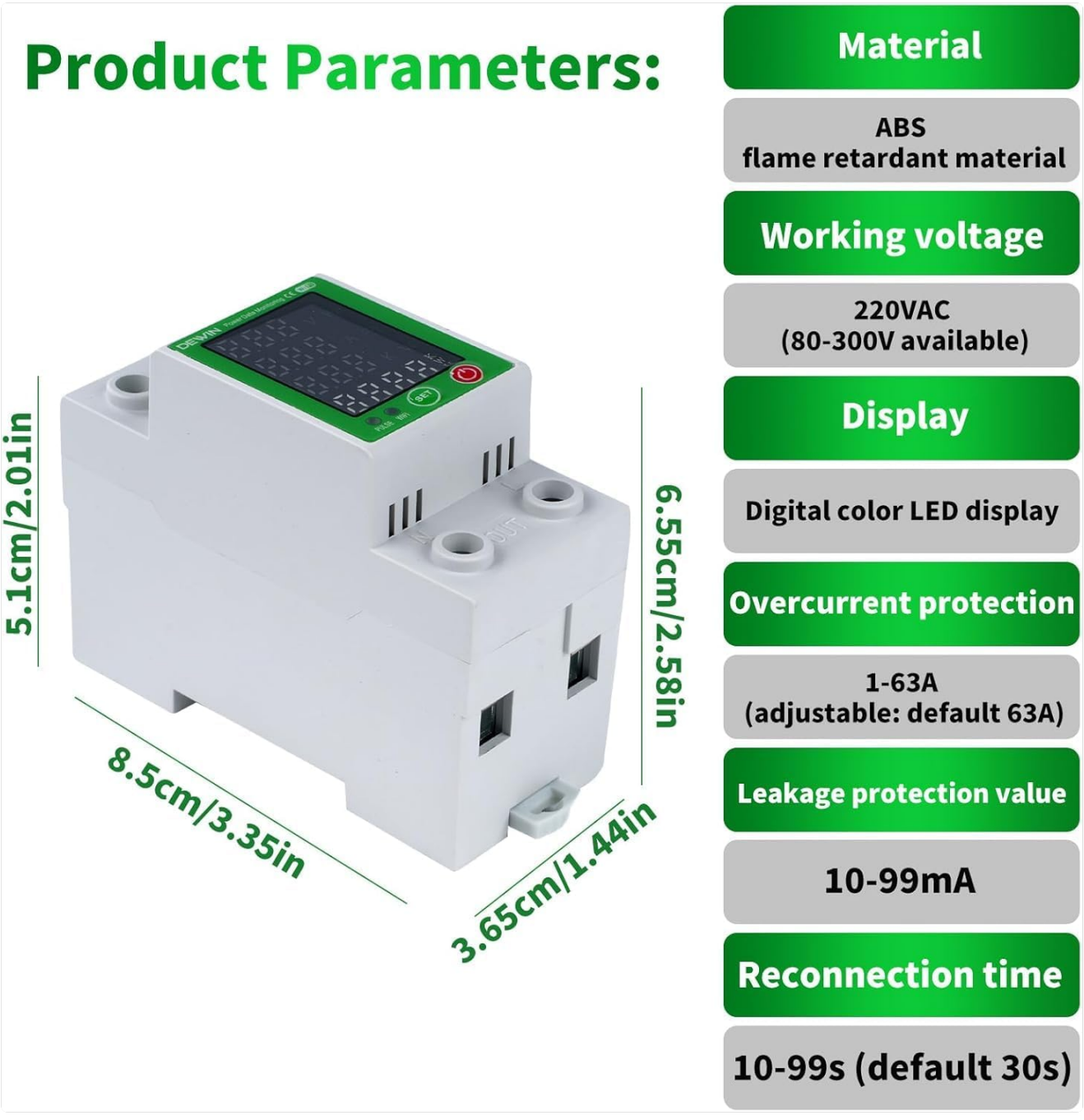


Image 3.1: Visual representation of product dimensions and key electrical parameters.

4. Setup

4.1 Installation

The DEWIN Smart Energy Meter is designed for standard 35mm DIN rail installation. Ensure power is disconnected before installation to prevent electric shock.

1. Mount the device securely onto a standard 35mm DIN rail within your electrical panel.
2. Connect the input (IN) and output (OUT) wiring according to local electrical codes and the markings on the device (N for Neutral, L for Live).
3. Verify all connections are tight and secure.



Image 4.1: Example of standard 35mm guide rail installation.

4.2 Network Configuration

To utilize the smart features and remote control, connect the device to your WiFi network using the Tuya Smart APP.

1. **Download the Tuya Smart APP:** Search for "Tuya Smart" in your mobile application store (e.g., Google Play

Store, Apple App Store) and download it. Register an account and log in.

2. **Add Device:** In the Tuya Smart APP, find the "Add Device" interface. Select "Energy Saving Circuit Breaker (WiFi)" to enter the distribution network interface.
3. **Pairing Mode:** Press and hold the device's network configuration button (usually labeled "SET" or similar) until the indicator light flashes quickly. This indicates the device is in pairing mode. Enter your wireless network password in the app to initiate pairing.
4. **Connection Success:** Once the connection is successful, the app will display the circuit breaker or control interface. You can then view power consumption data on your mobile phone and synchronize with the device.
5. **Alarm Settings:** Click the setting button in the lower right corner of the app to enter the device alarm setting interface. Here, you can set and adjust various protection values.
6. **Timing Settings:** Click the timing button in the lower right corner to enter the equipment timing switch setting interface, where you can configure opening and closing schedules.

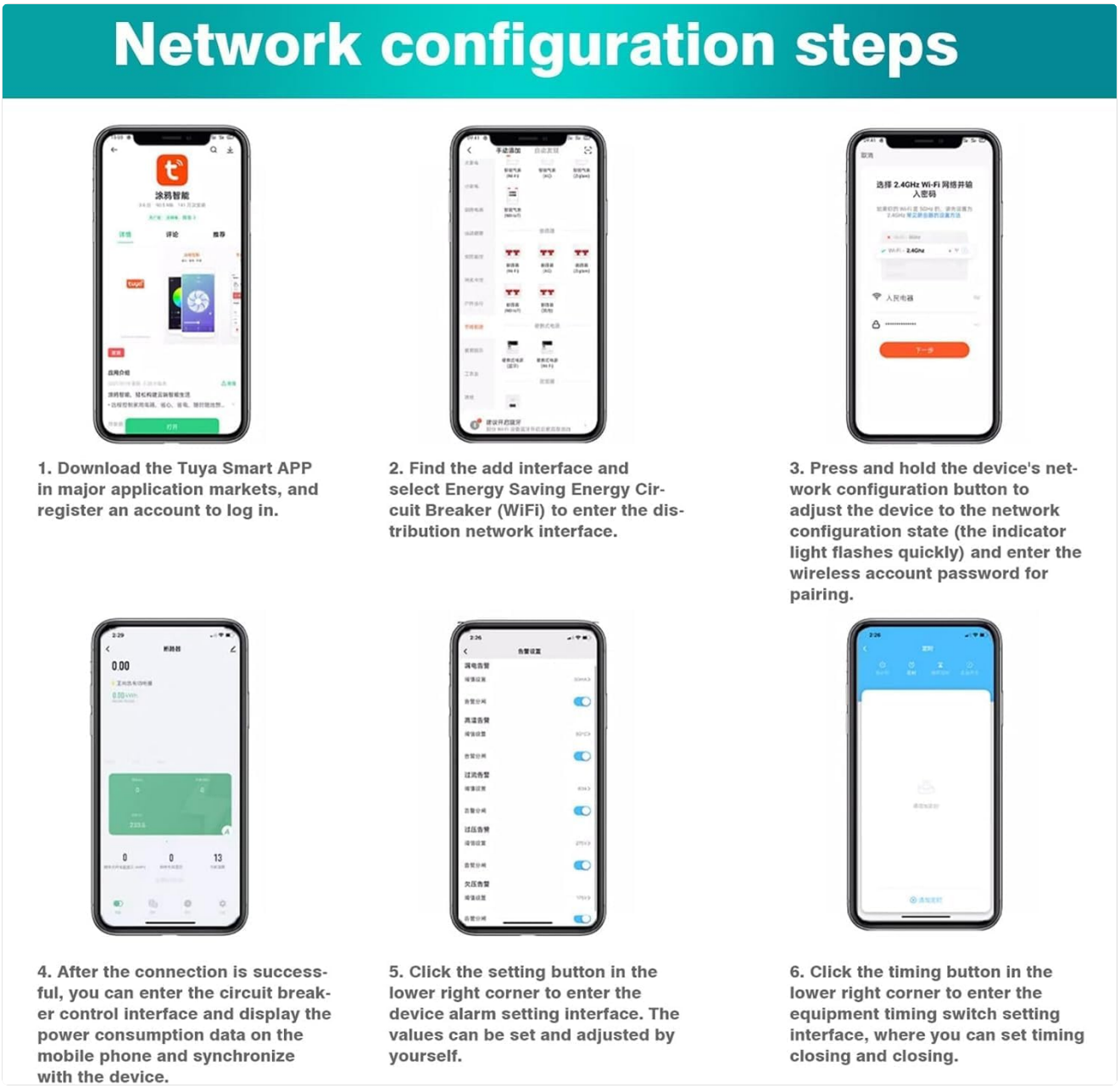


Image 4.2: Step-by-step guide for connecting the meter to your WiFi network via the Tuya Smart APP.

5. Operating Instructions

5.1 Digital Display

The device features a clear digital color display that shows real-time electrical parameters:

- **Voltage (V):** Displays the current line voltage.
- **Current (A):** Shows the current flowing through the circuit.
- **Power (KW):** Indicates the instantaneous power consumption.
- **Energy (KWH):** Accumulates total energy consumption.

These values are visible day and night for easy monitoring.

5.2 Remote Control and Monitoring

Once connected to the Tuya Smart APP, you can remotely control and monitor your energy meter from anywhere with an internet connection.

- View real-time voltage, current, power, and energy consumption.
- Remotely switch the circuit breaker ON/OFF.
- Access historical energy consumption data.



Image 5.1: Remote control and real-time monitoring via the mobile application.

5.3 Protection Functions

The meter provides comprehensive protection for your electrical system:

- **Overvoltage Protection:** Automatically disconnects power if voltage exceeds the set limit (default 275V).
- **Undervoltage Protection:** Disconnects power if voltage drops below the set limit (default 175V).
- **Overcurrent Protection:** Trips if current exceeds the set limit (default 63A).
- **Leakage Protection:** Detects and trips on leakage currents (10-99mA adjustable).
- **Over-temperature Protection:** Protects the device from overheating (operating range -30-70°C).

Protection thresholds can be adjusted via the mobile application.

5.4 Timing Functions

Automate your power usage with the timing schedule feature:

- **Timing Mode:** Set specific ON/OFF times for daily or weekly schedules.
- **Countdown Mode:** Set a timer for the device to turn ON or OFF after a specified duration.
- **Cycle Timing Mode:** Configure repetitive ON/OFF cycles.



Image 5.2: Example of setting timing schedules for energy management.

6. Maintenance

To ensure the longevity and optimal performance of your DEWIN Smart Energy Meter, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check for any visible damage to the casing or wiring. If damage is found, discontinue use and consult a qualified electrician.
- **Firmware Updates:** Keep the Tuya Smart APP updated to ensure you have the latest features and security patches for your device.
- **Environment:** Ensure the device is installed in a dry, well-ventilated area, away from direct sunlight, excessive heat, or moisture.

7. Troubleshooting

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

- **Device Not Powering On:**
  - Check the main power supply to the circuit.
  - Ensure all wiring connections are correct and secure.
- **No Display/Incorrect Readings:**
  - Verify the power supply is stable and within the operating voltage range.
  - If readings are consistently incorrect, consult a qualified electrician.
- **Cannot Connect to WiFi:**
  - Ensure your WiFi network is 2.4GHz (5GHz networks are not supported).
  - Check that the WiFi password entered in the app is correct.
  - Move the device closer to your WiFi router or consider a WiFi extender.
  - Restart your router and the energy meter, then try the network configuration steps again.
- **Protection Tripping Frequently:**
  - Identify if the tripping is due to overvoltage, undervoltage, overcurrent, or leakage. The display or app may indicate the cause.
  - Check for faulty appliances or overloaded circuits.
  - If the issue persists without an apparent cause, consult a qualified electrician.
- **Remote Control Not Responding:**
  - Ensure your mobile phone has an active internet connection.
  - Verify the device is still connected to your WiFi network (check the WiFi indicator on the device).
  - Restart the Tuya Smart APP.

For issues not covered here, please contact DEWIN customer support or a certified electrician.

8. Warranty and Support

DEWIN products are manufactured to high-quality standards. For warranty information, please refer to the documentation provided at the time of purchase or contact your seller. Typically, warranty covers manufacturing defects under normal use conditions.
For technical support, product inquiries, or assistance with troubleshooting, please contact DEWIN customer service through the contact information provided with your purchase or on the official DEWIN website.

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