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DEWIN KWS-303WiFi

DEWIN 8-in-1 WiFi Electric Consumption Meter (KWS-303WiFi) Instruction Manual

Brand: DEWIN | Model: KWS-303WiFi

1. Introduction

This DEWIN 8-in-1 WiFi Electric Consumption Meter is a versatile measuring instrument designed to monitor a wide range of electrical parameters. It offers various functions and measurement ranges, allowing you to accurately track voltage, current, power, electricity consumption, power factor, frequency, timing, and temperature. With smart control capabilities via the Tuya app, it provides real-time data monitoring and device control, helping you manage power usage and save costs.

2. Key Features

- **8-in-1 Display:** Simultaneously displays 8 electrical parameters including Voltage (AC 85-295V), Current (0-40A), Power (0-12kW), Electricity (0-9999kWh), Frequency (50-60Hz), and Power Factor (0-1PF).
- **One-Key Zero Function:** Easily reset the meter for various measurement levels to ensure data accuracy and continuity, enhancing testing and monitoring efficiency.
- **Wi-Fi Control & HD LCD Display:** Smart control via the Tuya app for real-time data monitoring and device control, enabling power management and cost savings. Features an HD color LCD with a 178° viewing angle and backlight for clear visibility day and night.
- **Data Storage & Protection:** Automatically stores the last test power data during power outages and resumes accumulation when power is restored, preventing data loss. Includes overvoltage, undervoltage, and overtemperature protection.
- **Wi-Fi Compatibility:** Requires 2.4 GHz Wi-Fi. Compatible only with Tuya Smart or Smart Life apps; other smart home apps are not supported.
- **Optimal Performance:** Ensure the device is near a strong Wi-Fi signal. Low loads may require more time for energy consumption detection.

3. Product Overview



Figure 3.1: DEWIN 8-in-1 WiFi Electric Consumption Meter with mobile remote control and unlimited distance capabilities.



Figure 3.2: 8-in-1 digital ammeter with one-click reset function and single rail type installation. Displays electric current, voltage, time, temperature, power factor, electricity level, frequency, and power.



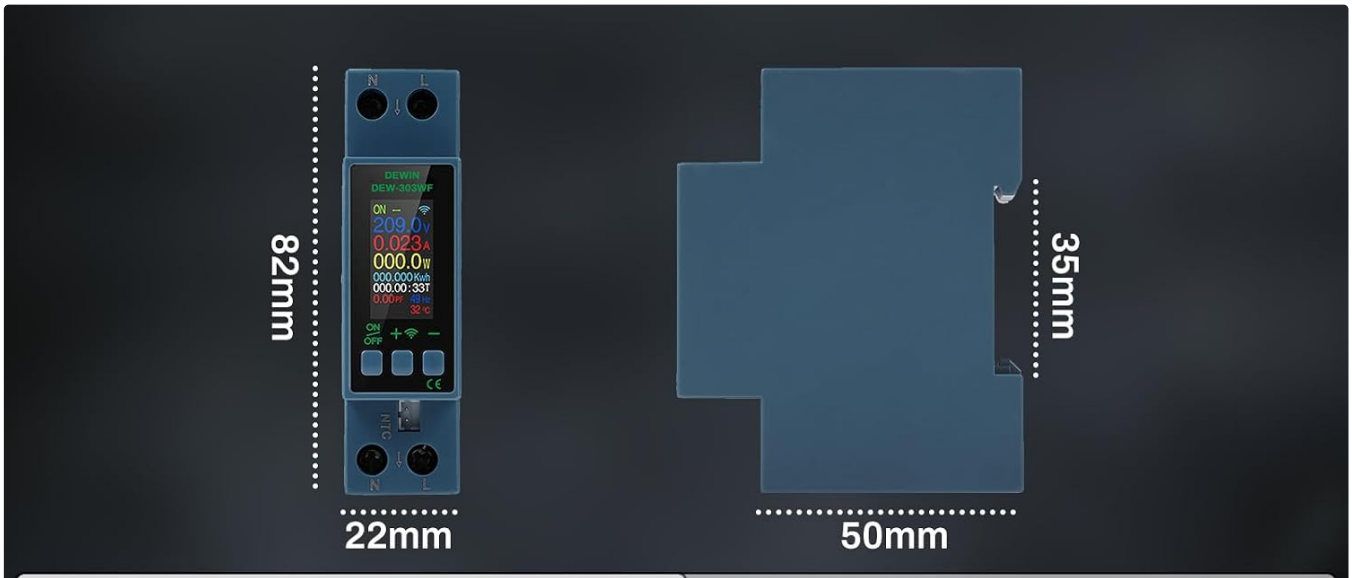
Figure 3.3: Smart Meter with overvoltage, undervoltage, overcurrent, and overtemperature protection features.



Figure 3.4: Data Storage: Automatically stores the last test energy data during power outage. Model: DEW-303WF.



Figure 3.5: LCD display screen: 8 different colored fields, 178° field of view without blind spots, with backlight function, clear visibility day and night.



Product Name: Rail type digital measuring meter	Timing range: 99 days
Material: PC flame retardant material	Temperature range: -20 ℃ -150 ℃
Voltage: AC 85-290V	Power off memory function: ✓
Current: 0-40A	Battery reset function: ✓
Power: 0-12W	Timer reset function: ✓
Electricity: 0-9999Kwh	WIFI connection: ✓
Frequency: 50-60Hz	Installation method: 35mm guide rail
Power factor: 0-1PF	Size: 8.2 * 5 * 2.2cm

Figure 3.6: Product specifications table including material, voltage, current, power, electricity, frequency, power factor, timing range, temperature range, power off memory, battery reset, timer reset, WiFi connection, installation method, and size.

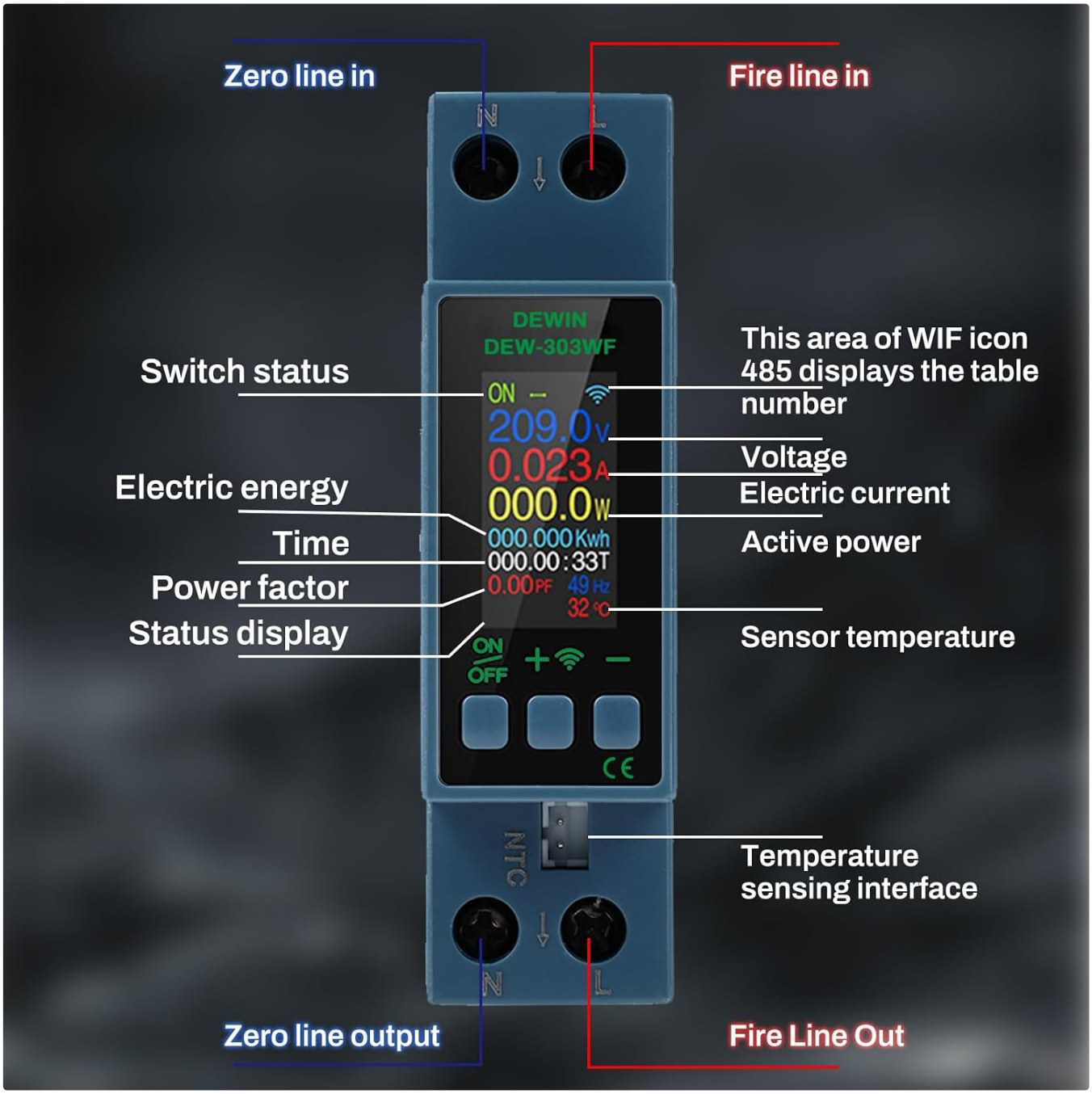


Figure 3.7: Wiring diagram showing Zero line in/out, Fire line in/out, Switch status, Electric energy, Time, Power factor, Status display, Voltage, Electric current, Active power, Sensor temperature, and Temperature sensing interface.



Figure 3.8: Simple wiring diagram illustrating input (N, L) and output (N, L) connections.

4. Specifications

Parameter	Value
Brand	DEWIN
Model	KWS-303WiFi (Internal Model: QCYXCBABI-GS98720-02)
Dimensions	8.7 x 8.5 x 2.4 cm
Weight	112 g
Voltage Range	AC 85-295V
Current Range	0-40A

Power Range	0-12kW
Electricity Range	0-9999kWh
Frequency	50-60Hz
Power Factor	0-1PF
Timing Range	99 days
Temperature Range	-20 °C - 150 °C
Installation Method	35mm Guide Rail

5. Setup & Installation

5.1 Physical Installation

The DEWIN 8-in-1 WiFi Electric Consumption Meter is designed for 35mm guide rail installation. Ensure all power is disconnected before proceeding with wiring.

1. Mount the meter securely onto a standard 35mm DIN rail.
2. Connect the neutral (N) and live (L) input wires to the top terminals of the meter. Ensure the zero line is connected to the left input terminal and the fire line to the right input terminal.
3. Connect the neutral (N) and live (L) output wires from the bottom terminals of the meter to your load (e.g., light bulb).
4. Tighten all terminal screws firmly to prevent loose connections.

Your browser does not support the video tag.

Video 5.1: This video demonstrates the wiring steps for a similar energy meter, showing how to connect the zero and fire lines to the input and output terminals. It also illustrates the display of electricity consumption, voltage, current, and power, along with the automatic carousel display with backlight function.

5.2 App Connection (Tuya Smart / Smart Life)

To utilize the smart features of your DEWIN meter, connect it to the Tuya Smart or Smart Life app.

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store.
2. Ensure your Wi-Fi network is 2.4 GHz.
3. On the meter, press and hold the '+' button on the home page until the Wi-Fi logo in the upper right corner of the screen starts flashing. This indicates pairing mode.
4. Open the Tuya Smart or Smart Life app on your mobile phone and follow the on-screen instructions to add the device. The app should automatically detect the meter in pairing mode.

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Video 5.2: This video demonstrates the process of connecting the DEWIN WiFi Electric Consumption Meter to the Tuya Smart app, including adding the device and viewing real-time data.

6. Operating Instructions

6.1 Real-time Monitoring

Once connected to the Tuya Smart or Smart Life app, you can monitor electrical parameters in real-time:

- Open the app and select your DEWIN meter.
- The main screen will display current voltage, current, power, and total energy consumption.
- Navigate through different tabs or sections in the app to view historical data, trends, and other parameters like power factor and frequency.

6.2 One-Key Zero Function

To reset accumulated energy data:

- On the device, locate the **'RESET'** button (usually a small button next to the display).
- Press and hold the **'RESET'** button for a few seconds until the energy consumption reading resets to zero.

6.3 Setting Functions and Protections

The meter offers various programmable functions and protection settings:

1. **Accessing Settings:** Press and hold the **'ON/OFF'** button for 5 seconds to enter the settings page on the device's LCD screen.
2. **Navigation:** Use the **'+'** and **'-'** buttons to navigate through the settings options (e.g., overvoltage protection, undervoltage protection, overcurrent protection, overtemperature protection).
3. **Adjusting Values:** Once you've selected a setting, press **'ON/OFF'** to enter edit mode, then use **'+'** and **'-'** to adjust the desired value.
4. **Saving Settings:** After adjusting, press **'ON/OFF'** again to save the setting.
5. **Exiting Settings:** To exit the settings page, navigate to the 'Exit' option and press **'ON/OFF'**, or simply wait for the device to time out.

You can also manage these settings through the Tuya Smart or Smart Life app under the device's settings or function menu.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Environment:** Keep the device in a dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Firmware Updates:** Check the Tuya Smart or Smart Life app regularly for any available firmware updates to ensure optimal performance and security.

8. Troubleshooting

- **Device Not Powering On:** Check the main power supply and all wiring connections. Ensure the voltage is within the specified range (AC 85-295V).
- **Wi-Fi Connection Issues:**

- Ensure your Wi-Fi network is 2.4 GHz.
- Verify the device is within range of your Wi-Fi router.
- Restart your Wi-Fi router and the DEWIN meter.
- Confirm you are using the Tuya Smart or Smart Life app.
- Re-initiate the pairing process as described in Section 5.2.

- **Inaccurate Readings:**
  - Ensure all wiring connections are correct and secure.
  - If measuring very low loads, allow more time for the device to detect and display consumption.
  - Perform a one-key zero reset if needed.
- **Protection Features Triggering Unexpectedly:** Review your overvoltage, undervoltage, overcurrent, and overtemperature settings in the app or on the device to ensure they are set appropriately for your electrical system.

9. Warranty & Support

For warranty information and technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase. For app-related issues, consult the help section within the Tuya Smart or Smart Life application.

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.

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