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TAXNELE 63A

TAXNELE 63A TUYA Smart WiFi Energy Meter User Manual

Model: 63A

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your TAXNELE 63A TUYA Smart WiFi Energy Meter. This device is designed to monitor electricity consumption and provide comprehensive protection against overvoltage, undervoltage, overcurrent, and earth leakage. It integrates smart features for remote control and energy management via the Smart Life mobile application.

2. Safety Information

WARNING: Electrical installation should only be performed by qualified personnel. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installing or servicing the device.
- Ensure the device is installed in a dry environment, away from moisture and direct sunlight.
- Verify that the voltage and current ratings of your electrical system are compatible with this device (230V, 63A).
- Do not attempt to repair or modify the device. Contact qualified service personnel for assistance.
- Ensure proper grounding according to local electrical codes.

3. Product Features

The TAXNELE 63A TUYA Smart WiFi Energy Meter offers a range of functionalities to enhance your electrical system's safety and efficiency:

- **Multifunctional Energy Meter:** Monitors voltage, current, and power consumption (kWh).
- **Adjustable Protection Settings:** Configurable over/undervoltage, overcurrent, and earth leakage limits.
- **Earth Leakage Protection:** Features two internal relays to cut off both Live (L) and Neutral (N) wires simultaneously for enhanced safety.
- **Wireless Remote Control:** Manage connected devices via the "Smart Life" mobile app (Android and iOS compatible).

- **Voice Control:** Compatible with Amazon Alexa and Google Home for hands-free operation.
- **Timer Function:** Schedule automatic on/off times for connected appliances.
- **Energy Monitoring:** Track daily, monthly, and yearly electricity consumption statistics.
- **LCD Display:** Clear display of real-time electrical parameters.



Image: Front view of the TAXNELE 63A TUYA Smart WiFi Energy Meter, highlighting its earth leakage protection feature with dual relay mechanism.

4. Setup and Installation

Follow these steps for proper installation and initial setup of your Smart Energy Meter.

4.1 Wiring Diagram

The device is designed for DIN rail mounting. Connect the incoming power supply (IN) to the top terminals and the outgoing load (OUT) to the bottom terminals. Ensure correct Live (L) and Neutral (N) connections.



Image: Front view of the meter showing IN (Input) and OUT (Output) terminals, along with labels for display indicators and control buttons.

4.2 App Installation and Pairing

1. Download the "Smart Life" app from your smartphone's app store (available for Android and iOS).
2. Register or log in to your Smart Life account.
3. Power on the TAXNELE Smart Energy Meter.
4. On the device, long press the "WiFi" button (often labeled with a WiFi icon or 'T' button for 5 seconds) until the WiFi indicator light flashes rapidly, indicating pairing mode.
5. In the Smart Life app, tap "+" to add a device. Select "Electrical Engineering" -> "Circuit Breaker (Wi-Fi)" or "Energy Meter (Wi-Fi)".
6. Follow the on-screen instructions in the app to connect the device to your 2.4GHz WiFi network.
7. Once successfully paired, the WiFi indicator on the meter will become solid.

5. Operating Instructions

5.1 Local Display and Controls

The LCD screen displays real-time electrical parameters. Use the buttons for local control and settings:

- **Power Button ( ):** Manual switch to turn the power on/off.
- **SET Button:** Long press for 3 seconds to enter the setting interface for parameters like voltage, current, and leakage protection values.
- **Adjustment Keys (▲ / ▼):** Used to navigate and adjust values within the setting interface.
- **Test Key (often combined with ▲):** Long press for 3 seconds to test the earth leakage protection function.



Image: The meter's LCD screen cycling through different display modes: kWh, kW, Power Factor, and Prepaid Energy.

5.2 Smart Life App Functions

Once connected to the Smart Life app, you can access the following features:

- **Remote Control:** Turn the device on/off from anywhere.
- **Parameter Configuration:** Adjust protection thresholds for undervoltage (140V-210V, default: 170V), overvoltage (230V-300V, default: 270V), overcurrent (1A-63A, default: 63A), and earth leakage (10-99mA).
- **Reconnection Time:** Set the delay for automatic reconnection after a protection trip (1s-500s, default: 30s).
- **Energy Statistics:** View daily, monthly, and yearly energy consumption reports.
- **Timer/Schedule:** Create schedules for automatic operation.
- **Alarm Records:** Review historical alarm events (over/undervoltage, overcurrent, leakage).



Image: Screenshot of the Smart Life app displaying options to configure over/undervoltage and overcurrent protection settings.

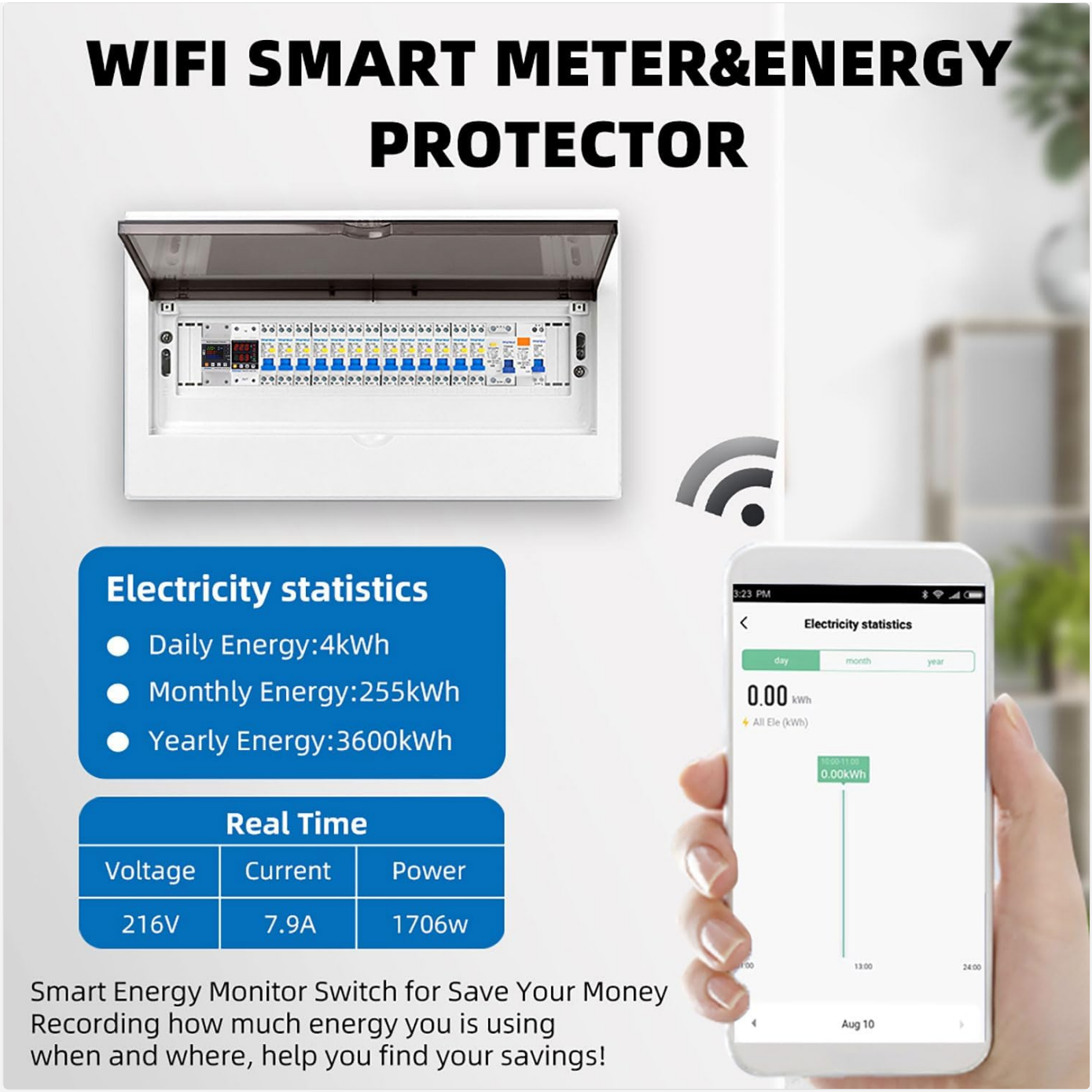


Image: Screenshot of the Smart Life app showing electricity statistics including daily, monthly, and yearly energy consumption, along with real-time voltage, current, and power data.

6. Maintenance

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Do not use abrasive cleaners or solvents.
- Regularly check wiring connections to ensure they are secure.
- Periodically test the earth leakage protection function using the dedicated test button as described in the operating instructions.

7. Troubleshooting

7.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Device not powering on.	No input power; incorrect wiring.	Check power supply to the IN terminals. Verify wiring connections.
WiFi indicator not flashing/connecting.	Not in pairing mode; 5GHz WiFi network; weak signal.	Long press WiFi button to enter pairing mode. Ensure 2.4GHz WiFi. Move device closer to router.
Device trips frequently.	Over/undervoltage, overcurrent, or earth leakage detected.	Check electrical load and supply voltage. Adjust protection thresholds in the app if necessary, but ensure safety. Investigate source of leakage if applicable.
Remote control not working.	No internet connection; app not logged in; device offline.	Check home internet connection. Ensure phone has internet. Verify device is connected to WiFi and online in the app.

8. Specifications

Model: 63A

Rated Voltage: 230V AC

Rated Current: 63A

Undervoltage Protection Range: 140V-210V (Adjustable, Default: 170V)

Overvoltage Protection Range: 230V-300V (Adjustable, Default: 270V)

Overcurrent Protection Range: 1A-63A (Adjustable, Default: 63A)

Reconnection Time Delay: 1s-500s (Adjustable, Default: 30s)

Power Display Range: 0-99999.9 kWh

Voltage/Current/kW Calibration: -9.9% to +9.9%

Connectivity: WiFi (2.4GHz)

App Compatibility: Smart Life (Android/iOS)

Dimensions: Approximately 95mm (H) x 45mm (W) x 68mm (D) (Refer to dimension image for details)



Image: Diagram showing the physical dimensions of the TAXNELE 63A TUYA Smart WiFi Energy Meter.

9. Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact your retailer. The manufacturer is TAXNELE (YUEQING TAIXIN ELECTRIC CO., LIMITED).

Disposal Information: This product contains electronic components and should not be disposed of with household waste. Please follow local regulations for the proper disposal of electronic waste.



Image: Label showing manufacturer details, CE/UKCA marks, and WEEE (Waste Electrical and Electronic Equipment) disposal symbol.

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