

LOTAPGPVK JJMVPD-63LWS

LOTAPGPVK JJMVPD-63LWS WiFi Smart Energy Meter Circuit Breaker User Manual

Model: JJMVPD-63LWS

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the LOTAPGPVK JJMVPD-63LWS WiFi Smart Energy Meter Circuit Breaker. This device integrates circuit protection with advanced energy metering and smart control capabilities via WiFi, offering comprehensive monitoring and management of electrical circuits.

1.1 Product Overview

The JJMVPD-63LWS is a multi-functional protector designed to safeguard electrical circuits while providing real-time energy consumption data. It features voltage, current, and leakage protection, along with kWh metering and timer functions, all controllable through a mobile application.



Figure 1: LOTAPGPVK JJMVPD-63LWS device and companion mobile application interface. This image displays the LOTAPGPVK JJMVPD-63LWS device, highlighting its digital screen which shows real-time voltage, current, and energy consumption (kWh). Below the screen are control buttons for power, settings, timer, and WiFi. To the right, a smartphone screen illustrates the device's integration with a mobile application, providing remote monitoring and control capabilities.

2. SAFETY INFORMATION

WARNING: Installation and maintenance should only be performed by qualified electricians. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the main power supply is disconnected before installation or any maintenance work.
- Verify that the rated voltage and current of the device match your electrical system specifications.
- Do not operate the device if it appears damaged.
- Keep the device away from water and excessive humidity.

3. SETUP AND INSTALLATION

3.1 Installation Dimensions

Before installation, ensure adequate space is available for the device within your electrical panel or

enclosure. Refer to the dimensions below:

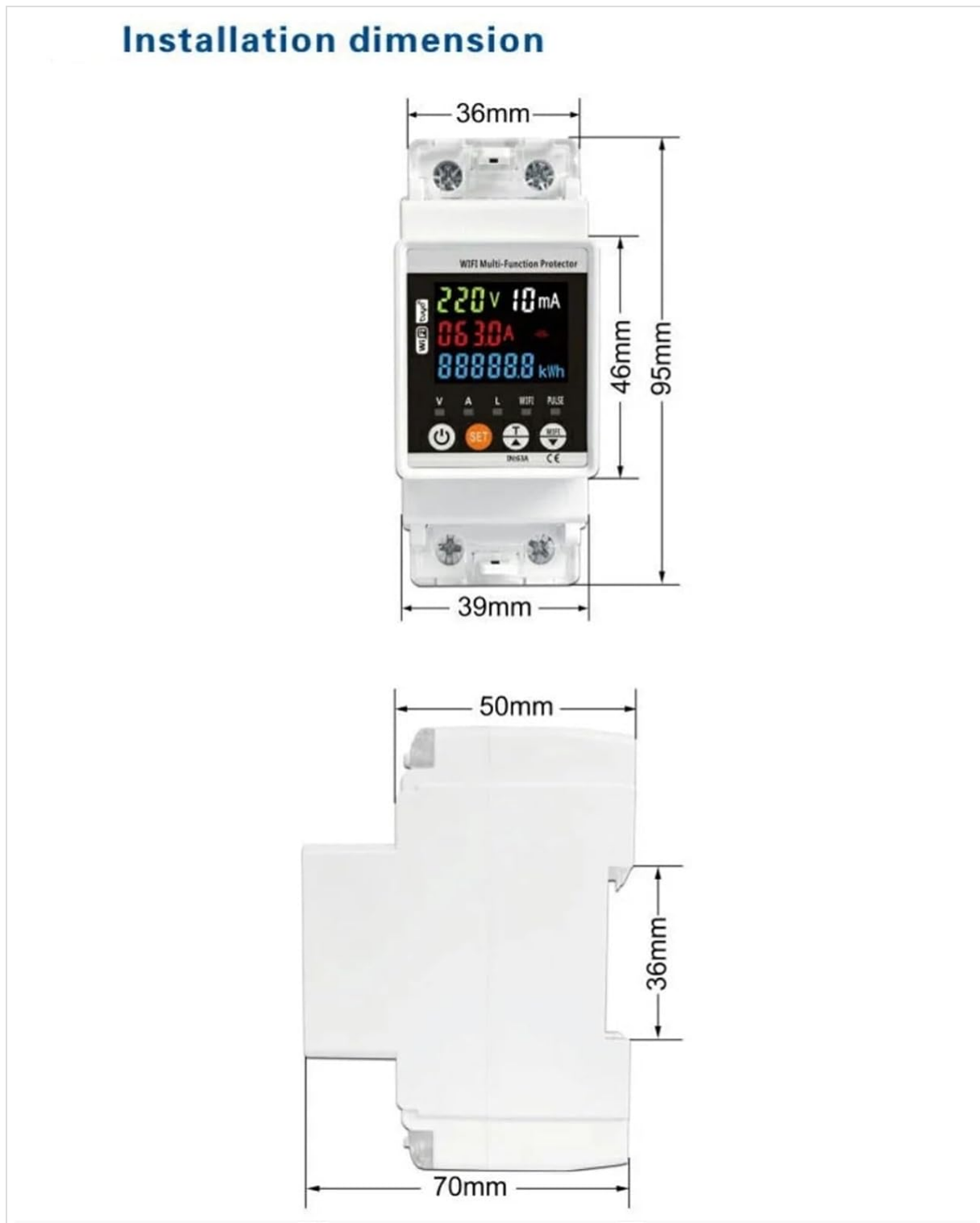
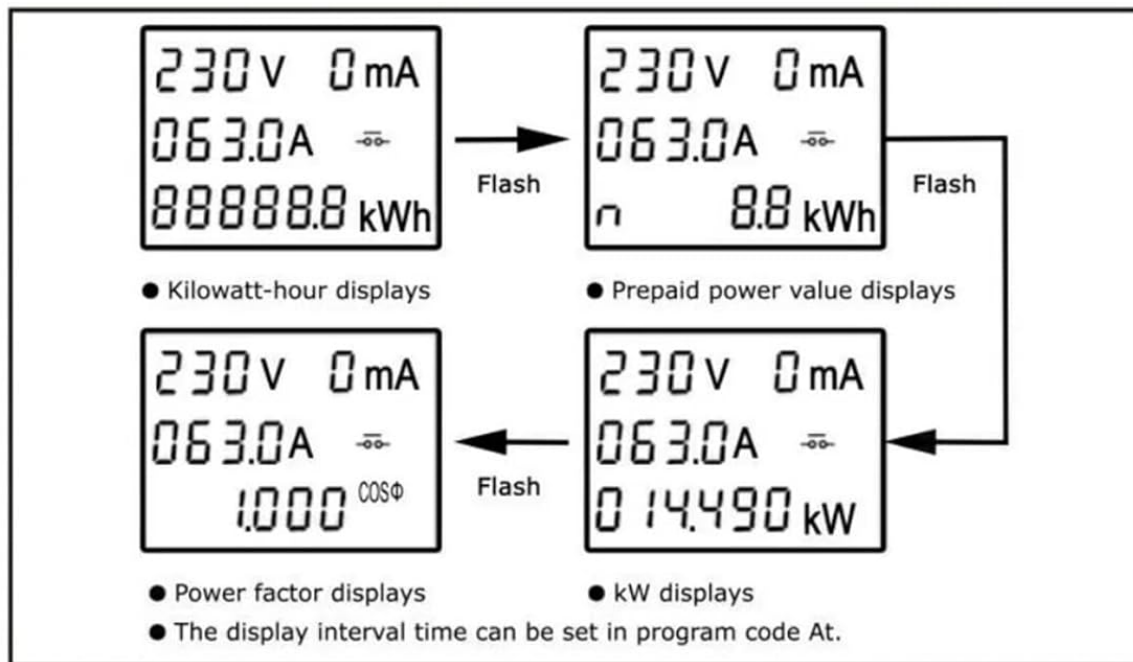


Figure 2: Installation dimensions of the JMVDP-63LWS device. This technical drawing illustrates the physical dimensions of the LOTAPGPVK JMVDP-63LWS device, crucial for proper installation. It includes front and side views with measurements such as a width of 36mm, a height of 95mm, and a depth of 70mm, ensuring compatibility with standard electrical enclosures.

3.2 Wiring Diagram

Follow the wiring diagram carefully to ensure correct and safe installation. The device should be connected in series with the Live (L) and Neutral (N) lines of the circuit it is protecting.

Kilowatt-hour, kW and power factor display by turns



Wiring diagram

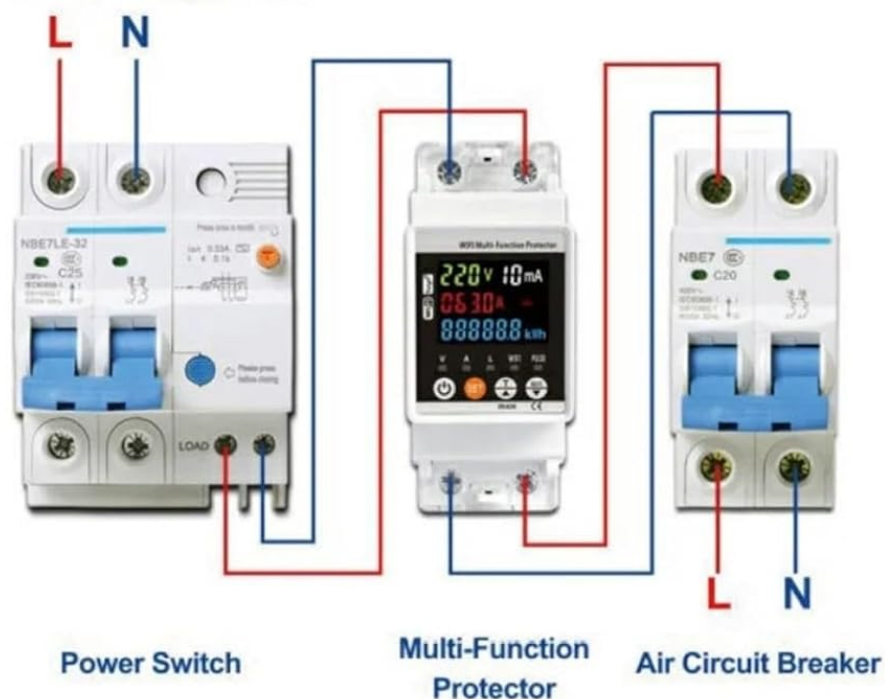


Figure 3: Wiring diagram and display modes. This image provides two key pieces of information. The upper section demonstrates how the device's digital display cycles through various measurements, including kilowatt-hours (kWh), prepaid power values, power factor ($\cos\phi$), and instantaneous power (kW). The lower section presents a clear wiring diagram, showing how the Multi-Function Protector should be integrated into an electrical circuit, connecting between a main power switch and an air circuit breaker, with clearly marked Live (L) and Neutral (N) terminals.

1. Connect the incoming Live (L) wire to the 'L' terminal on the device.
2. Connect the incoming Neutral (N) wire to the 'N' terminal on the device.
3. Connect the outgoing Live (L) wire to the load from the device's 'L' output terminal.
4. Connect the outgoing Neutral (N) wire to the load from the device's 'N' output terminal.
5. Ensure all connections are tight and secure.

4. OPERATING INSTRUCTIONS

4.1 Device Display and Buttons

The device features a digital display and several control buttons:

- **Display:** Shows real-time voltage (V), current (A), and energy consumption (kWh). It cycles through various metrics as shown in Figure 3.
- **Power Button:** Used to manually turn the circuit on or off.
- **SET Button:** Used to access and adjust device settings.
- **T Button:** Likely for timer functions or specific parameter adjustments.
- **WiFi Indicator:** Shows the status of the WiFi connection.

4.2 Display Information Cycle

As illustrated in Figure 3, the device's display automatically cycles through the following information:

1. **Kilowatt-hour (kWh) displays:** Total energy consumed.
2. **Prepaid power value displays:** If applicable, shows remaining prepaid energy.
3. **Power factor (cosφ) displays:** Indicates the efficiency of power usage.
4. **Instantaneous power (kW) displays:** Current power draw.

The display interval time can be configured through the device settings or the mobile application.

4.3 TUYA App Integration

The JJMVPD-63LWS connects to your home WiFi network, allowing remote monitoring and control via the TUYA Smart or Smart Life mobile application. Refer to the app's instructions for pairing the device and utilizing its smart features, including:

- Remote ON/OFF control.
- Real-time voltage, current, and power monitoring.
- Energy consumption history and statistics.
- Setting over-voltage, under-voltage, over-current, and leakage protection thresholds.
- Scheduling and timer functions.

5. MAINTENANCE

- Regularly check all wiring connections for tightness and signs of wear.
- Clean the device's exterior with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- Ensure the area around the device is free from dust and debris to prevent overheating.

6. TROUBLESHOOTING

6.1 Common Issues

- **Device not powering on:** Check main power supply and wiring connections. Ensure the circuit breaker is not tripped.
- **No display:** Verify power supply. If power is present, the device may require service.

- **WiFi connection issues:** Ensure the device is within range of your WiFi router. Check router settings and ensure it's on a 2.4GHz network. Re-pair the device with the app if necessary.
- **Incorrect readings:** Verify wiring is correct according to the diagram. Ensure the device is rated for the connected load.
- **Device trips frequently:** This indicates an over-current, over-voltage, under-voltage, or leakage fault. Check connected appliances for faults. Adjust protection thresholds in the app if necessary, but always prioritize safety.

7. SPECIFICATIONS

Feature	Specification
Model Number	JJMVPD-63LWS
Rated Voltage	220V
Current Rating	63A (as per product title, though specifications list 1 Amps, 63A is consistent with product name)
Circuit Breaker Type	Earth Leakage, Voltage Relay, Standard
Mounting Type	Bolt-On Mount
Number Of Poles	1
Connectivity	WiFi (TUYA App compatible)
Functions	Energy Metering (kWh), Voltage Protection, Current Protection, Leakage Protection, Timer
Package Dimensions	0.39 x 0.39 x 0.39 inches; 1.76 ounces (Note: These are package dimensions, not device dimensions)

8. WARRANTY AND SUPPORT

8.1 Warranty

This product comes with a **24-month warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, unauthorized modifications, or acts of nature.

8.2 Support

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the manufacturer, LOTAPGPVK, through their official support channels. Please have your product model number (JJMVPD-63LWS) and proof of purchase ready when contacting support.

