

Wattive JJMVPD-63LWM

WATTIVE JJMVPD-63LWM Wi-Fi Energy Meter User Manual

Model: JJMVPD-63LWM | Brand: Wattive

1. SAFETY INFORMATION

Please read this manual carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards. Keep this manual for future reference.

- Installation and maintenance should only be performed by qualified personnel.
- Ensure the power supply is disconnected before any wiring or installation.
- Do not operate the device in wet or damp conditions.
- Do not exceed the rated voltage and current of the device.
- Verify all connections are secure to prevent loose contacts and overheating.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Intelligent Protection Functions:** Overvoltage (120-300V adjustable), Undervoltage (80-210V adjustable), Overcurrent (1-63A adjustable), Thermal (40-100°C), and Leakage Current (10-99mA) protection. Automatic power cut-off and restoration.
- **Smart Wi-Fi Control:** Supports 2.4 GHz Wi-Fi for remote monitoring and control via the Tuya Smart app. Real-time display of voltage, current, active power (kW), energy consumption (kWh), power factor, frequency, and temperature.
- **High-Definition LCD Display:** Integrated design showing all key parameters simultaneously for clear and intuitive operation.
- **DIN Rail Mounting:** Standard 35mm DIN rail design for easy and efficient installation in electrical distribution boxes.
- **Wide Applicability:** Suitable for electrical energy measurement systems, schools, markets, home appliances, industry, and laboratories.

2.2 Product Components and Display

The Wattive JJMVPD-63LWM features an intuitive design with a clear LCD and accessible controls.

Introduzione del prodotto

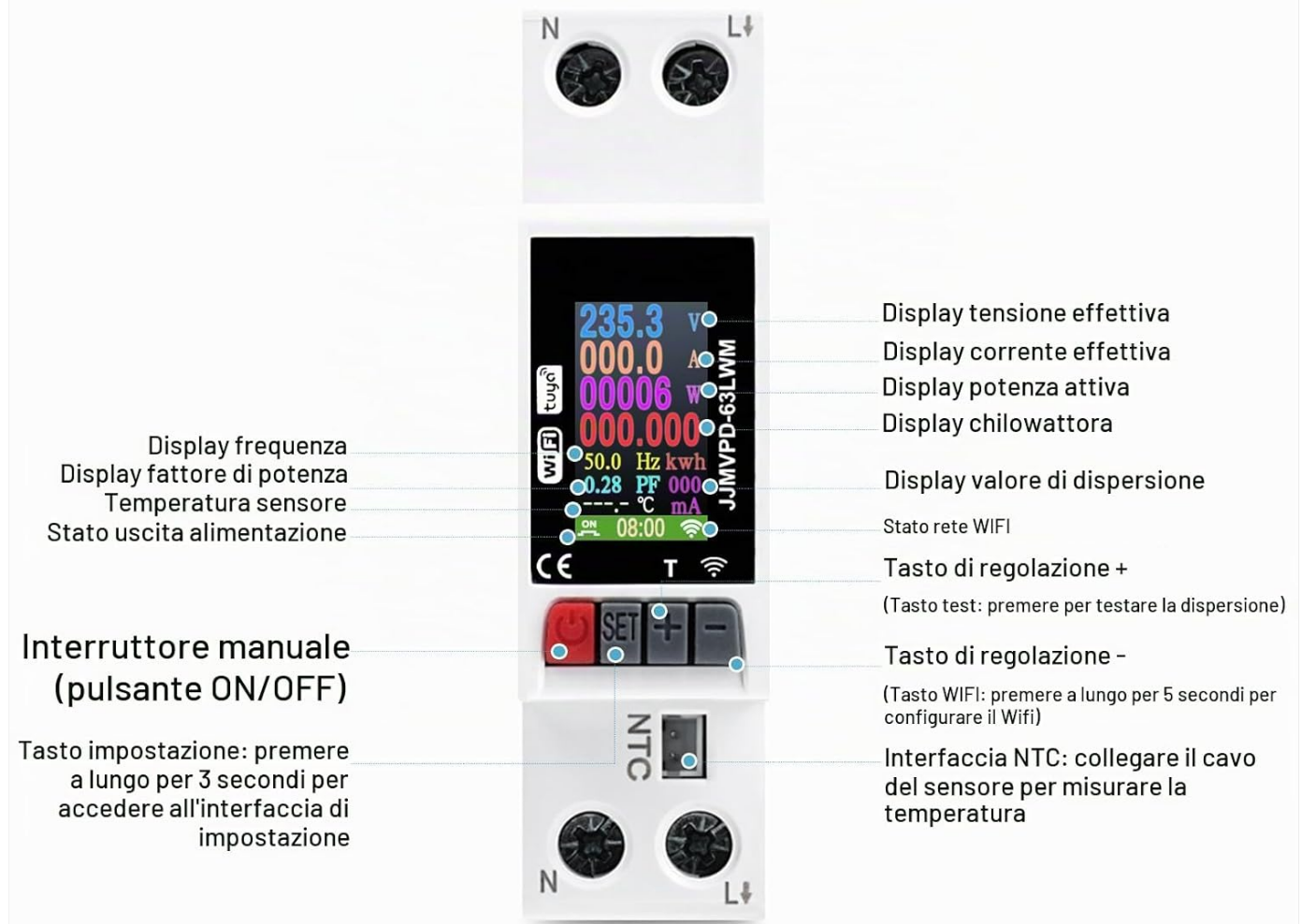


Figure 1: Product Overview with Labeled Components

- **LCD Display:** Shows real-time data including voltage (V), current (A), active power (W), energy consumption (kWh), leakage value (mA), Wi-Fi status, frequency (Hz), power factor (PF), sensor temperature (°C), and power output status.
- **Manual Switch (ON/OFF button):** For manual control of power output.
- **SET Button:** Press and hold for 3 seconds to access the setting interface.
- **Adjustment Buttons (+/-):** Used for navigation and value adjustment in settings. The '-' button is also used for Wi-Fi configuration (press and hold for 5 seconds). The '+' button can be used for leakage test.
- **NTC Interface:** Connect the temperature sensor cable here to measure temperature.

LCD COLOR SCREEN

Wide viewing angle, high contrast

Even in dimly lit rooms, easy to read.



Integrated Display Design



Figure 2: High-Definition LCD Color Screen

3. SPECIFICATIONS

Detailed technical specifications for the JJMVPD-63LWM energy meter.

PRODUCT SIZE INFORMATION



Material: ABS	Overtemperature Protection: 40-100℃
Voltage: AC 80-300V	Power Consumption: ≤2W
Overvoltage Protection: 120-300V	Power-off Memory Function: Yes
Undervoltage Protection: 80-210V	Power Reset Function: Yes
Overcurrent Protection: 1-63A	WIFI Connection: 2.4GHz
Leakage Protection: 10-99mA (Default 30mA)	Installation Method: 35mm DIN Rail

Figure 3: Product Dimensions and Specifications

Parameter	Value
Material	ABS
Voltage Range	AC 80-300V
Overvoltage Protection	120-300V (Adjustable)
Undervoltage Protection	80-210V (Adjustable)
Overcurrent Protection	1-63A (Adjustable)
Leakage Protection	10-99mA (Default 30mA)
Overtemperature Protection	40-100℃
Power Consumption	≤2W

Power-off Memory Function	Yes
Power Reset Function	Yes
Wi-Fi Connection	2.4GHz
Installation Method	35mm DIN Rail
Dimensions	9.5 x 8.5 x 2.5 cm
Weight	118 grams

4. INSTALLATION

The Wattive JJMVPD-63LWM is designed for easy installation on a standard 35mm DIN rail.

4.1 Wiring Diagram

Follow the wiring diagram carefully to ensure correct and safe installation. Disconnect all power before wiring.

Schema di cablaggio del prodotto

- Linea di fase
- Linea neutra



Figure 4: Wiring Diagram

1. Identify the **Phase Line (L)** and **Neutral Line (N)** of your electrical circuit.
2. Connect the incoming **Phase Line (L)** to the terminal marked 'L' on the **Input** side of the meter.
3. Connect the incoming **Neutral Line (N)** to the terminal marked 'N' on the **Input** side of the meter.
4. Connect the outgoing **Phase Line (L)** to the terminal marked 'L' on the **Output** side of the meter.
5. Connect the outgoing **Neutral Line (N)** to the terminal marked 'N' on the **Output** side of the meter.
6. Ensure all wire connections are tight and secure.

4.2 Temperature Sensor Connection

Connect the provided temperature sensor cable to the NTC interface at the bottom of the device to enable temperature monitoring.

5. OPERATION

5.1 Initial Power-Up and Display

Once correctly wired and powered on, the LCD display will illuminate, showing real-time electrical parameters. The default display shows voltage, current, active power, and kWh.

5.2 Wi-Fi Configuration (Tuya Smart App)

To enable smart control and monitoring, connect the device to your 2.4GHz Wi-Fi network using the Tuya Smart app.



Figure 5: Wi-Fi Smart Control via Tuya Smart App

1. Download the [Tuya Smart app](#) from your smartphone's app store (iOS or Android).
2. Register or log in to your Tuya Smart account.
3. On the energy meter, press and hold the '-' (Adjustment) button for 5 seconds until the Wi-Fi indicator on the display starts blinking rapidly. This indicates the device is in pairing mode.
4. In the Tuya Smart app, tap 'Add Device' or the '+' icon. The app should automatically discover the new device. If not, manually select 'Electrical Engineering' > 'Circuit Breaker (Wi-Fi)'.
5. Follow the on-screen instructions in the app to connect the device to your 2.4GHz Wi-Fi network. Enter your Wi-Fi password when prompted.

- Once connected, the Wi-Fi indicator on the meter's display will become solid, and you can access real-time data and control functions through the app.

5.3 Protection Function Settings

The device offers various adjustable protection settings. Press and hold the 'SET' button for 3 seconds to enter the setting interface. Use the '+' and '-' buttons to navigate and adjust values.



Figure 6: Displaying Protection States

- **Overvoltage Protection:** Set the upper voltage limit (120-300V). If the voltage exceeds this, power is cut off.
- **Undervoltage Protection:** Set the lower voltage limit (80-210V). If the voltage drops below this, power is cut off.
- **Overcurrent Protection:** Set the maximum current (1-63A). If the current exceeds this, power is cut off.
- **Leakage Protection:** Set the leakage current threshold (10-99mA). If leakage is detected, power is cut off.
- **Thermal Protection:** Set the temperature limit (40-100°C). If the sensor detects overheating, power is cut off.

After a protection event, the device will automatically restore power once the fault is resolved and within the set recovery time.

5.4 Time-Controlled Overcurrent Protection

The device allows setting up to 3 groups of time-controlled overcurrent protection with different values and time periods.

Time-controlled overcurrent protection function:

Overcurrent protection can set 3 groups of different time periods and values

The green code represents the overcurrent protection value.

The white code represents the start time (hours, minutes).



Level 1

Overcurrent protection setting group 1
Overcurrent action current protection range 1-63A
time set range: 00:00 → 23:59



Level 2

Overcurrent protection setting group 2
Overcurrent action current protection range 1-63A
time set range: 00:00 → 23:59



Level 3

Overcurrent protection setting group 3
Overcurrent action current protection range 1-63A
time set range: 00:00 → 23:59

Example 1:

Level 1 [5.0] A+TIME [08:00]08:00 to 12:00, 5A overcurrent protection is implemented.
Level 2 [10.0] A+TIME [12:00]12:00 to 17:00, 10A overcurrent protection is implemented.
Level 3 [15.0] A+TIME [17:00]17:00 to 08:00(the next day), 15A overcurrent protection is implemented.

Note:

The time setting in Level 1/2/3 according to the 24-hour time sequence

You need set time from morning to night (or from early to late)

Otherwise, the settings of Level 2/3 will not work, the device only implement Level 1 setting.

Example 2:

Level 1 [5.0] A+TIME [14:00]the device only implement Level 1 setting
Level 2 [10.0] A+TIME [08:00]5A overcurrent protection is implemented as default .
Level 3 [15.0] A+TIME [05:00]

Figure 7: Time-Controlled Overcurrent Protection Settings

Each level allows setting an overcurrent action current range (1-63A) and a time set range (00:00 – 23:59). Ensure the time settings for Level 1/2/3 follow a 24-hour sequence from morning to night. Incorrect sequencing may result in only Level 1 being implemented.

6. TROUBLESHOOTING

- **Device not powering on:** Check the main power supply and all wiring connections. Ensure the input voltage is within the AC 80-300V range.
- **No Wi-Fi connection:** Ensure your router is 2.4GHz and within range. Re-enter pairing mode by holding the '-' button for 5 seconds. Check your Wi-Fi password in the Tuya Smart app.
- **Frequent power cut-offs:** Check the set protection thresholds (overvoltage, undervoltage, overcurrent, leakage, thermal). Adjust them if they are too sensitive for your application. Verify there are no actual electrical faults in your circuit.
- **Inaccurate readings:** Ensure the wiring is correct and secure. If issues persist, contact support.

7. MAINTENANCE

The Wattive JJMVPD-63LWM requires minimal maintenance.

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use abrasive cleaners or solvents.
- Periodically check wiring connections for tightness, especially after initial installation or if the device has been moved.
- Ensure proper ventilation around the device to prevent overheating.

8. WARRANTY AND SUPPORT

Warranty information is typically provided with your purchase documentation. Please refer to the specific warranty terms and conditions that came with your product.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the manufacturer directly. Contact details can usually be found on the product packaging or the seller's website.

9. WHAT'S IN THE BOX

Upon opening your product package, you should find the following items:

- 1x AC Energy Meter
- 1x Instruction Manual (English)
- 1x Temperature Sensor

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.

Submit question