

MOES WM-104-M

MOES WiFi Smart Relay (1 Gang 10A) Instruction Manual

Model: WM-104-M

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of your MOES WiFi Smart Relay (1 Gang 10A). This device allows you to integrate traditional appliances and light switches into your smart home system, enabling remote control, voice commands, and scheduled operations via the Smart Life or Tuya app, as well as compatibility with Google Assistant and Amazon Alexa.

2. SAFETY INFORMATION

- **Electrical Safety:** Installation should only be performed by a qualified electrician or a person with a thorough understanding of electrical systems. Always disconnect power at the circuit breaker before installation, maintenance, or removal of the device.
- **Voltage and Current:** Ensure the device's operating voltage (90-250V AC) and maximum current (10A) are compatible with your electrical system and connected load.
- **Indoor Use Only:** This device is designed for indoor use in dry environments. Do not expose to moisture or extreme temperatures.
- **Interference:** Metal junction boxes may impact WiFi signals. For optimal performance, install the Smart Relay in a location with good wireless router (AP) proximity.
- **Children Safety:** Keep the device and its components out of reach of children.

3. PRODUCT OVERVIEW

The MOES WiFi Smart Relay is a compact module designed to convert traditional switches and appliances into smart devices. It operates on a 2.4GHz WiFi network and offers various control options.

Key Features:

- **Universal Compatibility:** Works with traditional appliances and light switches.
- **Smart Home Integration:** Compatible with Google Assistant and Amazon Alexa for voice control.
- **App Control:** Remote access, timer functions, and scheduling via Smart Life or Tuya App.
- **Compact Design:** Small form factor (0.7-inch thickness) for easy integration into standard switch boxes.
- **Multi-Control Support:** Enables control of a single light from multiple physical switches (3-way control).
- **Relay Status Settable:** Configure the device to remember its last state (ON/OFF) after a power outage.

Package Contents:

- MOES WiFi Smart Relay Module (1 Gang 10A)
- Screws
- Nuts
- Installation Manual (this document)



Figure 1: MOES WiFi Smart Relay Module and its retail packaging.

4. INSTALLATION

Important: Before proceeding with installation, ensure the main power supply is turned off at the circuit breaker to prevent electrical shock.

4.1 Wiring Diagram

The MOES WiFi Smart Relay requires a neutral wire for operation. Please refer to the wiring diagram below for correct connections.

Verified member of
amazon launchpad

Figure 2: Typical wiring diagram for the MOES Smart Relay. Connect Live (L), Neutral (N), Switch Input (S1), and Load (L1) as shown.

Terminal Definitions:

- **L:** Live Wire Input
- **N:** Neutral Wire Input
- **S1:** Switch Input (for connecting a traditional wall switch)
- **L1:** Load Output (connects to the light or appliance)

4.2 Physical Installation and Compatibility

The compact design of the MOES Smart Relay allows it to fit into most standard switch boxes or be mounted on a DIN rail. Ensure your existing wall switch is compatible.



Figure 3: The compact size of the MOES Smart Relay allows it to fit into various standard switch boxes.

RELAY STATUS SETTABLE



Figure 4: The MOES Smart Relay is compatible with rocker and self-reset switches. It is not compatible with glass panel touch switches.

Installation Methods:

1. **In a Hidden Switch Box:** After wiring, carefully place the module inside the switch box behind the traditional wall switch. Ensure there is enough space and that wires are not pinched.
2. **On a DIN Rail:** The module can also be installed on a standard DIN rail if your setup requires it.



Figure 5: Two primary installation methods: inside a hidden switch box or mounted on a DIN rail.

After installation, restore power at the circuit breaker.

5. APP SETUP AND PAIRING

To control your MOES Smart Relay via smartphone, you need to download the Smart Life or Tuya app and pair the device.

1. **Download App:** Search for "Smart Life" or "Tuya Smart" in your mobile app store (Google Play Store for Android, Apple App Store for iOS) and install it.
2. **Register/Login:** Open the app and register a new account or log in with an existing one.
3. **Add Device:** Tap the "+" icon in the top right corner of the app to add a new device.
4. **Select Device Type:** Choose "Electrical" -> "Switch (Wi-Fi)" or "Relay (Wi-Fi)".

5. **Enter Wi-Fi Details:** Ensure your phone is connected to a 2.4GHz Wi-Fi network. Enter your Wi-Fi network password.
6. **Pairing Mode:** Power on the MOES Smart Relay. The indicator light on the module should blink rapidly. If it does not, press and hold the reset button (usually a small button on the module) for 5-10 seconds until it blinks rapidly.
7. **Confirm Blinking:** In the app, confirm that the indicator light is blinking rapidly.
8. **Connect:** The app will begin searching for the device. Once found, it will connect and add the relay to your account.
9. **Rename Device:** You can rename the device (e.g., "Living Room Light") for easier identification and voice control.



Figure 6: Remote control of the smart relay via the mobile application.

6. OPERATING INSTRUCTIONS

6.1 App Control

Once paired, you can control the connected light or appliance directly from the Smart Life or Tuya app. The app allows you to:

- Turn the device ON/OFF remotely.
- Set schedules and timers for automatic operation (countdown, schedule, circulate, random, inching).
- Create smart scenes and automations with other smart devices.
- Check the current status of the device.

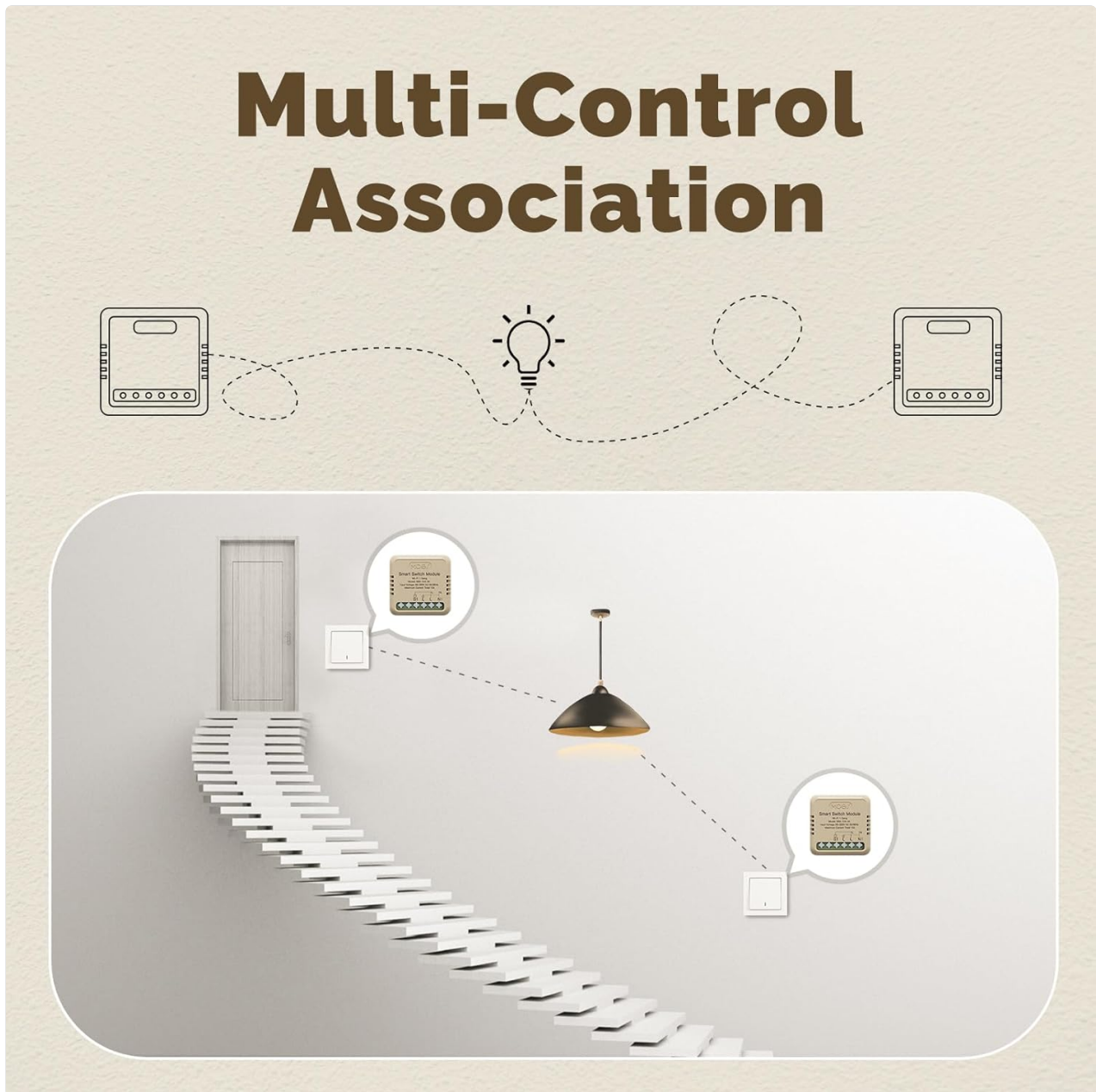


Figure 7: Examples of timer functions available in the app, such as countdown and scheduling.

6.2 Voice Control

Integrate your MOES Smart Relay with Amazon Alexa or Google Assistant for hands-free control.

1. **Link Account:** In the Alexa or Google Home app, enable the "Smart Life" or "Tuya Smart" skill/service and link your account.
2. **Discover Devices:** Ask your voice assistant to "Discover devices" or manually add the device in the app.
3. **Voice Commands:** Use commands like:

- "Alexa, turn on Living Room Light."
- "Hey Google, turn off Kitchen Fan."

Timer Function



Countdown



Schedule



Circulate



Random



Inching



Turn on light at 8:00AM



Turn off kettle after 3 minutes



Turn off light at 10:00PM



Turn off light after 45 minutes



Figure 8: Demonstrating hands-free voice control using Amazon Alexa or Google Assistant.

6.3 Multi-Control Association (3-Way Control)

The MOES Smart Relay supports multi-control association, allowing you to control a single light or appliance from two or more traditional wall switches, effectively creating a 3-way switch setup.

1. Install a MOES Smart Relay behind each physical switch you wish to use for multi-control.
2. In the Smart Life/Tuya app, navigate to the settings of one of the relays.
3. Look for "Multi-Control Association" or a similar option.
4. Follow the in-app instructions to link the relays together, designating one as the primary and others as secondary controllers for the same load.

MINI Extreme Wi-Fi Smart Switch Module

2.4GHz WiFi



Figure 9: Illustration of multi-control association, allowing a single light to be controlled from multiple points.

6.4 Relay Status Settings

You can configure the relay's power-on state after a power outage. This setting is available within the device's settings in the Smart Life or Tuya app.

- **OFF:** The device will remain off after power is restored.
- **ON:** The device will turn on after power is restored.
- **Remember Last Status:** The device will return to its state (ON or OFF) prior to the power outage.



Figure 10: App interface showing options to set the relay's power-on status.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not connecting to Wi-Fi / Frequently offline.	Weak Wi-Fi signal; Incorrect Wi-Fi password; 5GHz Wi-Fi network; Metal junction box interference.	Ensure the device is within range of your 2.4GHz Wi-Fi router. Verify Wi-Fi password. The device only supports 2.4GHz Wi-Fi. Consider relocating the router or the device if a metal junction box is causing interference.
Indicator light not blinking rapidly during pairing.	Not in pairing mode.	Press and hold the reset button on the module for 5-10 seconds until the indicator light blinks rapidly.
Device not responding to app or voice commands.	No internet connection; Device offline; App/voice assistant not linked correctly.	Check your home internet connection. Verify the device's status in the app. Re-link your Smart Life/Tuya account with Alexa/Google Assistant.
Physical switch not controlling the light after installation.	Incorrect wiring (S1 terminal); Switch type incompatibility.	Double-check the wiring according to Figure 2, ensuring the physical switch is connected to the S1 terminal. Ensure you are using a compatible rocker or self-reset switch, not a glass panel touch switch.

8. SPECIFICATIONS

Parameter	Value
Model	WM-104-M
Brand	MOES
Operating Voltage	90-250V AC
Current Rating	10 Amps
Operation Mode	Automatic
Contact Type	Normally Open
Connector Type	Auxiliary
Terminal	Screw
Circuit Type	3-way
Contact Material	Metal
Number of Positions	1
Wireless Connectivity	2.4GHz Wi-Fi
Dimensions (approx.)	40mm x 40mm x 18mm (1.57 x 1.57 x 0.71 inches)
Manufacturer	Wenzhou Nova New Energy Co.,LTD

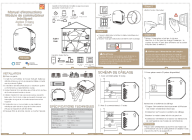
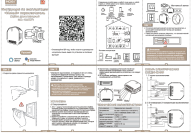

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact MOES customer service directly. You can typically find support contact details on the MOES official website or through the retailer where the product was purchased.

Online Resources:

- For app-related queries, visit the [Tuya Smart](#) or [Smart Life](#) official websites.
- For product updates and additional information, visit the [MOES Store on Amazon](#).

Related Documents - WM-104-M

	<p><u>Manuel d'instructions du module de commutateur intelligent ZigBee 3 Gang MS-104CZ</u></p> <p>Guide d'installation et d'utilisation pour le module de commutateur intelligent ZigBee 3 Gang MS-104CZ. Inclut des instructions de câblage, la configuration de l'application, le dépannage et les informations de garantie.</p>
	<p><u>Moes MS-104 Wi-Fi+RF Switch Module: Instruction Manual and Setup Guide</u></p> <p>Comprehensive guide to installing, configuring, and using the Moes MS-104 Wi-Fi+RF Switch Module for smart home automation, including wiring diagrams, FAQs, and app integration.</p>
	<p><u>MOES MS-104 Smart Switch Module Instruction Manual</u></p> <p>Comprehensive guide for the MOES MS-104 Smart Switch Module, covering installation, technical specifications, wiring diagrams, and app configuration for smart home integration.</p>
	<p><u>MOES MS-103 Smart Temperature and Humidity Switch Module Instruction Manual</u></p> <p>Comprehensive instruction manual for the MOES MS-103 Smart Temperature and Humidity Switch Module. Learn how to set up, connect, and use the device with the Smart Life app for smart home automation, including temperature and humidity control functions.</p>
	<p><u>Moes MS-104BZR ZigBee Smart Switch Installation and User Manual</u></p> <p>Comprehensive guide for installing and using the Moes MS-104BZR ZigBee two-gang smart switch. Includes wiring diagrams, setup instructions, app integration with Tuya/Smart Life, Alexa, and Google Assistant, and troubleshooting tips.</p>
	<p><u>MOES Mini Matter WiFi Smart Switch 1-Gang User Manual</u></p> <p>User manual for the MOES Mini Matter WiFi Smart Switch 1-Gang (Model WM-104-M). This guide provides installation, wiring, configuration, and operational instructions for integrating the smart switch into your home automation system, including app and voice control features.</p>