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Yitouniu AYTU008

Yitouniu 4 Channel Tuya Smart Life WiFi Relay Module User Manual

1. Introduction

This manual provides detailed instructions for the Yitouniu 4 Channel Tuya Smart Life WiFi Momentary Inching Relay Self-Locking Switch Module (Model: AYTU008). This versatile module allows you to remotely control up to four electrical devices using the Smart Life/Tuya App, voice commands via Alexa or Google Home, and even Bluetooth or RF when Wi-Fi is unavailable. It supports various operating modes including self-locking, momentary, and interlock, along with timing functions and device sharing.

2. Safety Information

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Hazard:** Installation should only be performed by qualified personnel. Ensure power is disconnected at the circuit breaker before wiring.
- **Voltage Compatibility:** The module supports input voltages of AC 85-250V or USB 5V. Ensure your power source matches the module's requirements.
- **Current Rating:** The relay has a cutover current of less than 10A. Do not exceed this rating to prevent damage or fire.
- **Operating Environment:** Operate the module within the specified temperature range of -40 to 70 degrees Celsius and humidity of 40% to 80% RH.
- **Non-Certified Product:** This product is not ULc or CSA certified. Installation is at your own risk. If you lack electrical expertise, seek professional assistance.
- **Indoor Use:** This device is designed for indoor use. If used outdoors, it must be housed in a suitable waterproof enclosure.

3. Product Overview

The Yitouniu 4 Channel Smart Relay Module is housed in a compact ABS shell, designed for easy

integration into various smart home projects. It features four independent relay channels, input terminals, and control buttons.



Figure 3.1: Front view of the Yitouniu 4 Channel Smart Relay Module, showing input terminals, reset button, and K1-K4 control buttons.



Figure 3.2: Exploded view showing the internal circuit board with four relays and the protective ABS shell.

Key Components:

- **Input Terminals:** For connecting AC 85-250V or USB 5V power supply.
- **Relay Outputs (NC, COM, NO):** Four sets of normally closed, common, and normally open terminals for connecting devices.
- **Reset Button:** Used for resetting the module or initiating pairing mode.
- **K1-K4 Buttons:** Manual control buttons for each of the four channels.
- **Signal Instruction Light:** Indicates network status.
- **Relay Pull-on Instruction Light:** Indicates relay status for each channel.

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4. Specifications

Feature	Specification
Model Number	AYTU008

Feature	Specification
Input Voltage	USB 5V or AC 85-250V
Power Consumption	<1W
Quiescent Current	80mA
Cutover Current	<10A per channel
Cutover Voltage	<250V
Working Temperature	-40 to 70 ℃
Working Humidity	40% to 80% RH
Dimensions	3.15 x 2.95 x 1.14 inches
Wireless Connectivity	2.4G WiFi (b/g/n), Bluetooth, 433MHz RF

5. What's in the Box

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

- 1 x 4 Channel WiFi Relay Module
- 1 x Instruction Manual (this document)

6. Setup and Installation

6.1 Wiring Instructions

Before wiring, ensure the power supply is completely disconnected. Connect your devices to the relay output terminals (NC, COM, NO) according to your application's requirements. Connect the module's input terminals to either a USB 5V power source or an AC 85-250V power source. Refer to the product's markings for correct polarity and terminal identification. The terminal blocks are designed for secure connections, but ensure wires are properly stripped and inserted.

6.2 App Configuration (Smart Life/Tuya App)

1. **Download App:** Download the "Smart Life" or "Tuya Smart" app from your mobile device's app store (iOS or Android).
2. **Register/Login:** Create an account or log in if you already have one.
3. **Add Device:** Power on the relay module. Open the app and tap the "+" icon to add a device. The app may automatically discover the device via Bluetooth. If not, select "Electrical" or "Switch" from the device list.
4. **Pairing Mode:** If the device is not automatically found, put the module into pairing mode. This usually involves pressing and holding the reset button until the signal instruction light blinks rapidly. Follow the app's instructions for Wi-Fi network selection (ensure it's a 2.4GHz network) and password entry.
5. **Device Naming:** Once connected, you can rename the device and its individual channels for easier control.

6. **Offline Control:** After initial Wi-Fi configuration, the module can be controlled via Bluetooth or 433MHz RF (if compatible RF remote is used) even if the Wi-Fi connection is lost.

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7. Operating Modes

The module supports three primary operating modes, configurable within the Smart Life/Tuya App for each channel independently:

7.1 Self-locking (Latching) Mode

In this mode, pressing the control button (either in the app or on the module) for a channel will toggle its state. Press once to turn on, press again to turn off. Each of the four channels can be controlled independently.



Figure 7.1: Illustration of controlling four separate devices (lights, fan, lamp) independently in self-locking mode.

7.2 Momentary (Inching) Mode

When set to momentary mode, pressing the control button will turn the relay on for a preset duration (default is one second, adjustable from 2 seconds to 1 minute in the app), and then automatically turn it off. This is ideal for applications like garage door openers or momentary triggers.

7.3 Interlock Mode

In interlock mode, only one channel can be active at a time. When you turn on one channel, any other active channels will automatically turn off. This is useful for applications where only one device should be powered at any given moment.

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8. Advanced Features

8.1 Voice Control

The Yitouniu relay module is compatible with Amazon Alexa and Google Home. Once linked through the Smart Life/Tuya app, you can control your connected devices using simple voice commands.

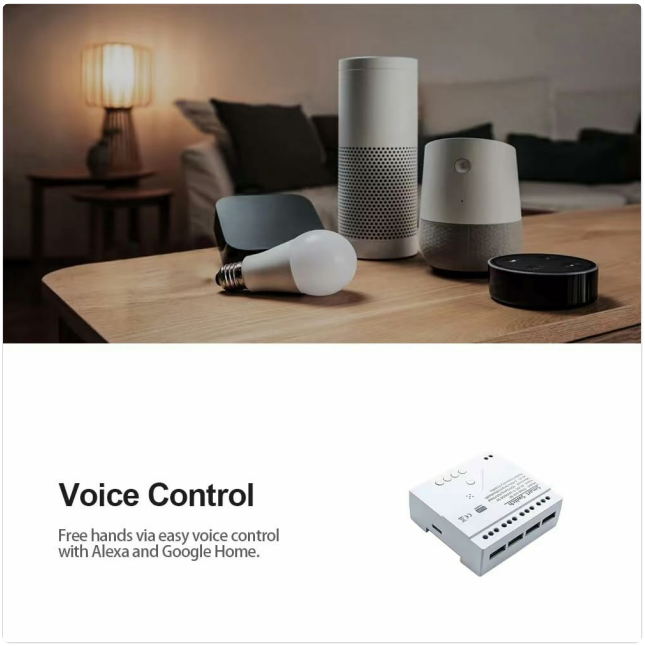


Figure 8.1: The relay module integrates seamlessly with voice assistants like Amazon Alexa and Google Home for hands-free control.

- **Example Commands (Alexa):** "Alexa, turn on the light." "Alexa, turn on Garage door."
- **Example Commands (Google Home):** "Hey Google, turn off the bedroom light."

8.2 Timing Function

Set schedules, countdowns, or loop timers for your connected devices directly within the Smart Life/Tuya app. This allows for automated control of appliances, even if your internet connection is temporarily unavailable.

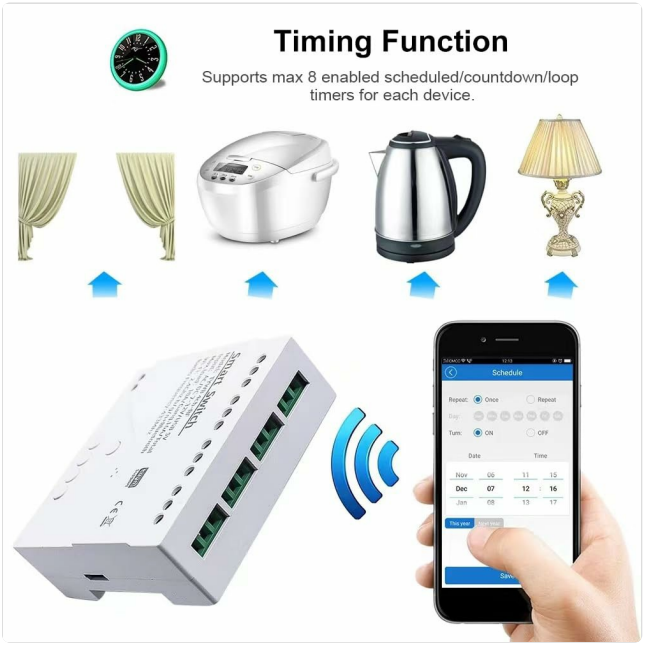


Figure 8.2: The app interface allows setting up to 8 scheduled, countdown, or loop timers for each device, enabling automated control of appliances like curtains, rice cookers, kettles, and lamps.

8.3 Device Sharing

Share control of your smart relay module with family members through the Smart Life/Tuya app. This allows multiple users to manage the connected devices, enhancing convenience for the entire household.



Figure 8.3: The device sharing feature allows multiple family members to control the smart relay module from their own mobile devices, promoting shared convenience.

9. Maintenance

To ensure the longevity and optimal performance of your Yitouniu relay module, follow these maintenance guidelines:

- **Keep Dry:** Avoid exposing the module to moisture or liquids.
- **Clean Gently:** Use a soft, dry cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Temperature Control:** Do not operate or store the module in environments outside its specified temperature range.
- **Ventilation:** Ensure adequate airflow around the module if it is enclosed, to prevent overheating.

10. Troubleshooting

If you encounter issues with your Yitouniu relay module, refer to the following common problems and solutions:

- **Device Not Connecting to Wi-Fi:**
  - Ensure your Wi-Fi network is 2.4GHz. The module does not support 5GHz networks.
  - Check Wi-Fi password accuracy.
  - Move the module closer to your Wi-Fi router.
  - Try resetting the module (press and hold the reset button) and re-initiating the pairing process in the app.
- **Device Unresponsive:**
  - Verify the module is powered on and the power indicator light is active.
  - Check the wiring connections to ensure they are secure.
  - If using voice control, ensure the Smart Life/Tuya app is correctly linked to your Alexa or Google Home account.

- **Relay Not Toggling:**
  - Ensure the connected device is within the 10A current limit. Overloading can prevent the relay from switching.
  - Check the operating mode set in the app (Self-locking, Momentary, Interlock) to ensure it matches your intended behavior.

11. Warranty and Support

For product support, technical assistance, or warranty inquiries, please contact the manufacturer, Yitouniu, through the platform where you purchased the product. Please have your model number (AYTU008) and purchase details ready when contacting support.

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