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Newgoal DC2-Tuya

Newgoal 2-Channel WiFi Smart Switch Relay Module (Model: DC2-Tuya) - User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your Newgoal 2-Channel WiFi Smart Switch Relay Module, model DC2-Tuya. This device allows for remote control of electrical appliances via the TUYA/Smart Life App, and integrates with voice assistants like Alexa and Google Assistant. It supports various working modes including momentary and self-locking, offering flexibility for diverse smart home applications.



Image 1.1: The Newgoal 2-Channel WiFi Smart Switch Relay Module alongside a smartphone displaying the control application.

2. PRODUCT OVERVIEW

The Newgoal DC2-Tuya module is a versatile smart relay designed for integration into existing electrical systems. It features two independent channels, enabling control of two separate devices. Key components and their functions are outlined below:

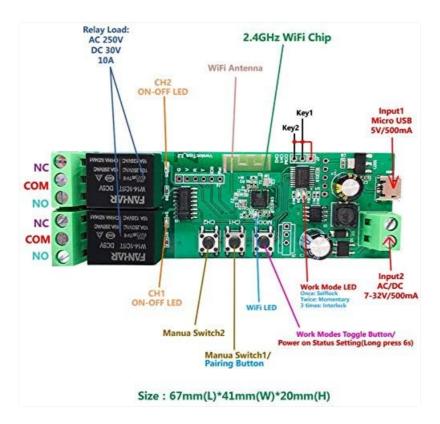


Image 2.1: Detailed diagram illustrating the components of the Newgoal DC2-Tuya module, including the 2.4GHz WiFi chip, WiFi antenna, manual switches, LEDs, and input/output terminals.

- 2.4GHz WiFi Chip: Enables wireless connectivity to your home network.
- WiFi Antenna: For stable wireless communication.
- Manual Switches (Key1, Key2): Physical buttons for local control and pairing.
- **LED Indicators:** Provide status feedback for WiFi connection and relay operation (CH1 ON-OFF LED, CH2 ON-OFF LED, Work Mode LED, WiFi LED).
- Input Terminals: Micro USB 5V/500mA or AC/DC 7-32V/500mA for power supply.
- Relay Load Terminals: NC (Normally Closed), COM (Common), NO (Normally Open) for connecting electrical devices.
- Work Modes Toggle Button: Used to switch between momentary, self-locking, and interlock modes.

3. SPECIFICATIONS

Feature	Detail
Model	DC2-Tuya
Brand	Newgoal
Input Voltage	Micro USB 5V or AC/DC 7-32V
Relay Load	AC 250V 10A, DC 30V 10A
Connectivity	2.4GHz WiFi (IEEE 802.11 b/g/n)
App Compatibility	TUYA / Smart Life App
Voice Assistant	Alexa, Google Assistant
Working Modes	Momentary (Inching), Self-locking, Interlock

Feature	Detail
Dimensions	67mm (L) x 41mm (W) x 20mm (H)
Material	Copper (Contact Material: Silver Copper)

4. SETUP AND INSTALLATION

4.1 Safety Precautions

- Ensure power is disconnected before any wiring.
- Installation should be performed by qualified personnel if you are unfamiliar with electrical wiring.
- Do not exceed the specified maximum load for the relays.
- Only connect to a 2.4GHz WiFi network. 5GHz networks and Mesh WiFi systems are not supported.

4.2 App Installation and Account Registration

- 1. Download the **TUYA Smart** or **Smart Life** application from your smartphone's app store (available for Android and iOS).
- 2. Open the app and register for a new account if you do not already have one.
- 3. Log in to your account.

4.3 Wiring Diagrams

The module supports various wiring configurations depending on the application and desired working mode. Always ensure correct polarity and voltage.

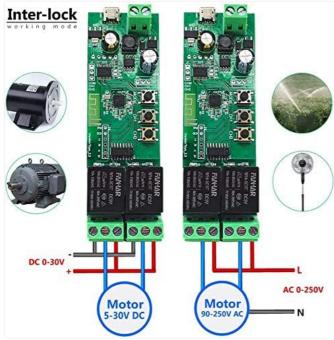


Image 4.1: Wiring for Interlock mode, demonstrating connections for both DC (5-30V) and AC (90-250V) motors or appliances. This mode ensures only one relay is active at a time.



Image 4.2: Wiring for Momentary mode, suitable for applications like garage door openers or momentary button presses. Input power is typically 5V via Micro USB.



Image 4.3: Wiring for Self-locking mode, ideal for controlling lights or other devices that require a sustained ON/OFF state. Input power can be AC/DC 7-32V.

Refer to the specific application's voltage requirements and connect the load to the appropriate COM and NO (Normally Open) or NC (Normally Closed) terminals on the relay. The module can be powered via a Micro USB 5V input or directly through the AC/DC 7-32V terminals.

4.4 Device Pairing with App

- 1. Power on the Newgoal DC2-Tuya module using either the Micro USB 5V or AC/DC 7-32V input.
- 2. Open the TUYA Smart or Smart Life App.
- 3. Press and hold the "Work Modes Toggle Button" (often labeled Key1 or Key2, or a dedicated pairing button) on the module for approximately 6 seconds until the WiFi LED indicator starts blinking rapidly. This indicates the module is in pairing mode.

- 4. In the app, tap the "Add Device" (+) icon, usually located in the top right corner.
- 5. Select the device type (e.g., "Switch" or "Electrical Switch"). The app may automatically discover the device.
- 6. Follow the on-screen instructions to connect the module to your 2.4GHz WiFi network. You will need to enter your WiFi network password.
- 7. Once successfully paired, the WiFi LED on the module will stop blinking and remain solid. You can then rename the device and individual channels within the app for easier identification.

5. OPERATING INSTRUCTIONS

5.1 Working Modes

The module supports three primary working modes, configurable via the app or the physical "Work Modes Toggle Button" (long press for 6 seconds to enter setting mode, then short press to cycle through modes: 1 time for Momentary, 2 times for Self-locking, 3 times for Interlock). The Work Mode LED will indicate the selected mode.

- Momentary Mode (Inching Mode): When activated, the relay turns on for a set duration (adjustable from 0.5 to 60 seconds) and then automatically turns off. This is suitable for applications requiring a brief pulse, such as garage door openers or electric strikes.
- Self-locking Mode: Each relay acts as a standard ON/OFF switch. Pressing the button (in app or physical) toggles
 the relay state (ON or OFF). This is ideal for controlling lights or other devices that need to remain in a continuous
 state.
- Interlock Mode: In this mode, only one relay can be active at a time. If one relay is turned ON, any other active relay will automatically turn OFF. This is useful for controlling devices where simultaneous operation is undesirable, such as motor direction control.

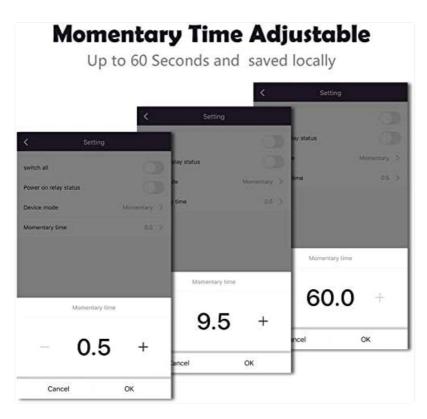


Image 5.1: App interface showing the adjustable momentary time setting, allowing users to configure the duration from 0.5 to 60 seconds.

5.2 Remote Control via App

Once paired, you can control the module from anywhere using the TUYA Smart or Smart Life App.

• Open the app and select your Newgoal DC2-Tuya device.

- You will see individual controls for each channel (Switch 1, Switch 2). Tap to toggle the state of each relay.
- The app also provides features such as:
 - Real-time Status: View the current ON/OFF state of each relay.
 - Timer Setting: Schedule relays to turn ON/OFF at specific times.
 - Countdown: Set a countdown timer for a relay to change state.
 - Shared Control: Share device control with other family members.
 - Automation/Scenes: Create custom automation rules based on conditions (e.g., time of day, other smart devices).



Image 5.2: The Smart Life app interface, demonstrating individual control for each channel and access to advanced features.

5.3 Voice Control (Alexa/Google Assistant)

The Newgoal DC2-Tuya module is compatible with Amazon Alexa and Google Assistant for convenient voice control.

- 1. Ensure your module is successfully paired with the TUYA Smart or Smart Life App.
- 2. Open the Alexa or Google Home app on your smartphone.
- 3. Navigate to the "Skills & Games" (Alexa) or "Works with Google" (Google Home) section.
- 4. Search for and enable the "TUYA Smart" or "Smart Life" skill/service.
- 5. Link your TUYA/Smart Life account with your Alexa/Google account.
- 6. Discover devices. Your Newgoal DC2-Tuya module and its channels should appear.
- 7. You can now use voice commands such as:
 - "Alexa, turn on [Device Name] Switch 1."
 - "Hey Google, turn off [Device Name] Switch 2."
 - "Alexa, set [Device Name] Switch 1 to momentary mode." (Functionality may vary by voice assistant and app version).

6. MAINTENANCE

• Cleaning: Disconnect power before cleaning. Use a dry, soft cloth to wipe the module. Do not use liquid cleaners or

solvents.

- **Firmware Updates:** Periodically check the TUYA Smart or Smart Life App for available firmware updates for your device. Updates can improve performance and add new features.
- Connection Check: Ensure all wiring connections remain secure and free from corrosion.
- **Environment:** Operate the module within its specified temperature and humidity ranges to ensure longevity. Avoid exposure to extreme conditions.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device cannot connect to WiFi.	Incorrect WiFi password; 5GHz WiFi network; weak signal; module not in pairing mode.	Verify WiFi password. Ensure you are connecting to a 2.4GHz network. Move the module closer to the router or use a WiFi extender. Re-enter pairing mode (rapidly blinking WiFi LED).
Relay does not respond to app commands.	No internet connection; module offline; incorrect wiring; power issue.	Check your home internet connection. Verify the module's WiFi LED is solid. Inspect wiring for loose connections. Ensure the module is receiving power. Restart the app.
Voice control not working.	Skill/service not enabled; account not linked; incorrect device name.	Ensure the TUYA Smart/Smart Life skill is enabled and linked in your Alexa/Google Home app. Verify the device name used in voice commands matches the name in the app. Try rediscovering devices.
Momentary mode duration is incorrect.	Incorrect setting in the app.	Access the device settings in the TUYA Smart/Smart Life App and adjust the "Momentary time" parameter.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Newgoal products are designed for reliability and performance. For specific warranty details, please refer to the product packaging or contact Newgoal customer service. Keep your purchase receipt as proof of purchase for warranty claims.

8.2 Customer Support

If you encounter any issues or have questions regarding your Newgoal 2-Channel WiFi Smart Switch Relay Module, please contact our customer support team. For the most up-to-date contact information, visit the official Newgoal website or refer to your product documentation.

Online Resources: For additional guides, FAQs, and community support, visit the Tuya Smart official website or the Smart Life support pages.

Related Documents - DC2-Tuya

	Tuya WiFi Smart Switch Module: User Manual & Technical Specifications Comprehensive guide to the Tuya WiFi Smart Switch Module, covering installation, setup, features, technical specifications, and troubleshooting for smart home automation with app and voice control.
User Manual WHY Rotey Statch TY-207-6091	Shenzhen Yunzhiju TY-DIY-S01 WiFi Relay Switch User Manual Comprehensive user manual for the Shenzhen Yunzhiju TY-DIY-S01 WiFi Relay Switch, covering setup, specifications, modes (inching, selflock), smart assistant integrations (Alexa, Google Home, Siri), and FCC compliance information.
Releu wireless deschidere automatizare din telefon Tuya GD 62-Tuya Manual de utilizare	Tuya GDC2-Tuya Wireless Relay for Garage Door Automation - User Manual User manual for the Tuya GDC2-Tuya wireless relay, detailing installation, setup, app integration, and compatibility. Control your garage door remotely using your smartphone via the Tuya Smart or Smart Life app, with support for voice assistants like Alexa and Google Assistant.
HETTEXCLA OBBLUG APLIACE LEVEL STATE CONTROL OF THE CONTROL OBBLUG APLIACE TO AN ARROW AND ARR	Tuya Smart WiFi Switch Module: Installation & Pairing Guide Step-by-step guide for installing and pairing the Tuya Smart WiFi Switch Module with the Tuya Smart app. Covers account creation, device pairing, technical specifications, and wiring diagrams for single and staircase setups.
	MoesGo MS-105B Smart Dimmer Module WiFi 2 Gang - Installation and User Manual Comprehensive guide for the MoesGo MS-105B Smart Dimmer Module. Learn about installation, wiring, technical specifications, app control via Smart Life, and voice assistant integration with Amazon Alexa and Google Home.
TOTAL CAMARIT CET UP A USER CHUICE STATE COMMENT CET UP A USER CHUICE STATE CHUICE ST	Red Arrow Tuya Smart App Setup and User Guide A comprehensive guide for Red Arrow luminaires using the Tuya Smart App, detailing setup, device connection (EZ and AP modes), control features, and smart home integration with Alexa and Google Assistant.