

[Manuals.plus](#) /

› [Tedeligo](#) /

› Tedeligo 433MHz Wireless Remote Control DC 12V 1-Channel Relay Receiver Module User Manual

Tedeligo TD121COM+TD5*1

Tedeligo 433MHz Wireless Remote Control DC 12V 1-Channel Relay Receiver Module User Manual

Model: TD121COM+TD5*1

INTRODUCTION

Thank you for choosing the Tedeligo 433MHz Wireless Remote Control DC 12V 1-Channel Relay Receiver Module. This device is designed to provide convenient wireless control for various DC 12V applications, including lighting, garage door systems, access control, and more. This manual will guide you through the installation, setup, and operation of your new device.



Figure 1: Tedeligo Wireless Remote Control Receiver and Transmitter

PACKAGE CONTENTS

- 1 x Wireless Remote Control Transmitter (4-button)
- 1 x Wireless Relay Receiver Module
- 1 x User Manual

SPECIFICATIONS

Feature	Specification
Operating Mode	ON-OFF
Operating Voltage	DC 12V
Contact Type	Normally Open

Feature	Specification
---------	---------------

Connector Type	Crimping
Switch Type	Push Button
Terminal	Through Hole
Material	Plastic
Item Dimensions (L x W x H)	28 x 47 x 22 mm
Circuit Type	1 Way
Mounting Type	Wall Mount
Number of Positions	1
Upper Rated Temperature	70 Degrees Celsius
Control Method	Remote Control
Connectivity Protocol	433 MHz RF
Power	120 Watts
International Protection Rating	IP00
Compliant Specification	CE



Figure 2: Receiver and Remote Control Dimensions

SAFETY INFORMATION

- Ensure the power supply is disconnected before any wiring or installation to prevent electric shock.
- Verify that the operating voltage of your device matches the receiver's DC 12V requirement.
- Do not expose the receiver or transmitter to extreme temperatures, humidity, or corrosive environments.
- Keep the device out of reach of children.
- If you are unsure about any wiring steps, consult a qualified electrician.

PRODUCT OVERVIEW

The Tedeligo wireless remote control system consists of a compact receiver module and a handheld transmitter. The receiver features a learning button and indicator light for mode configuration and status feedback. The transmitter has 'ON' and 'OFF' buttons for control.



Figure 3: Receiver Module and Remote Controls

INSTALLATION AND WIRING

The receiver module is designed for easy integration into existing DC 12V circuits. Always ensure power is disconnected before wiring.

General Wiring Principles

The receiver has terminals for power input (V+, V-) and output (NO, COM). Connect your DC 12V power supply to V+ and V-. The device to be controlled should be connected between NO (Normally Open) and COM (Common) terminals. When the relay is activated, it closes the circuit between NO and COM.

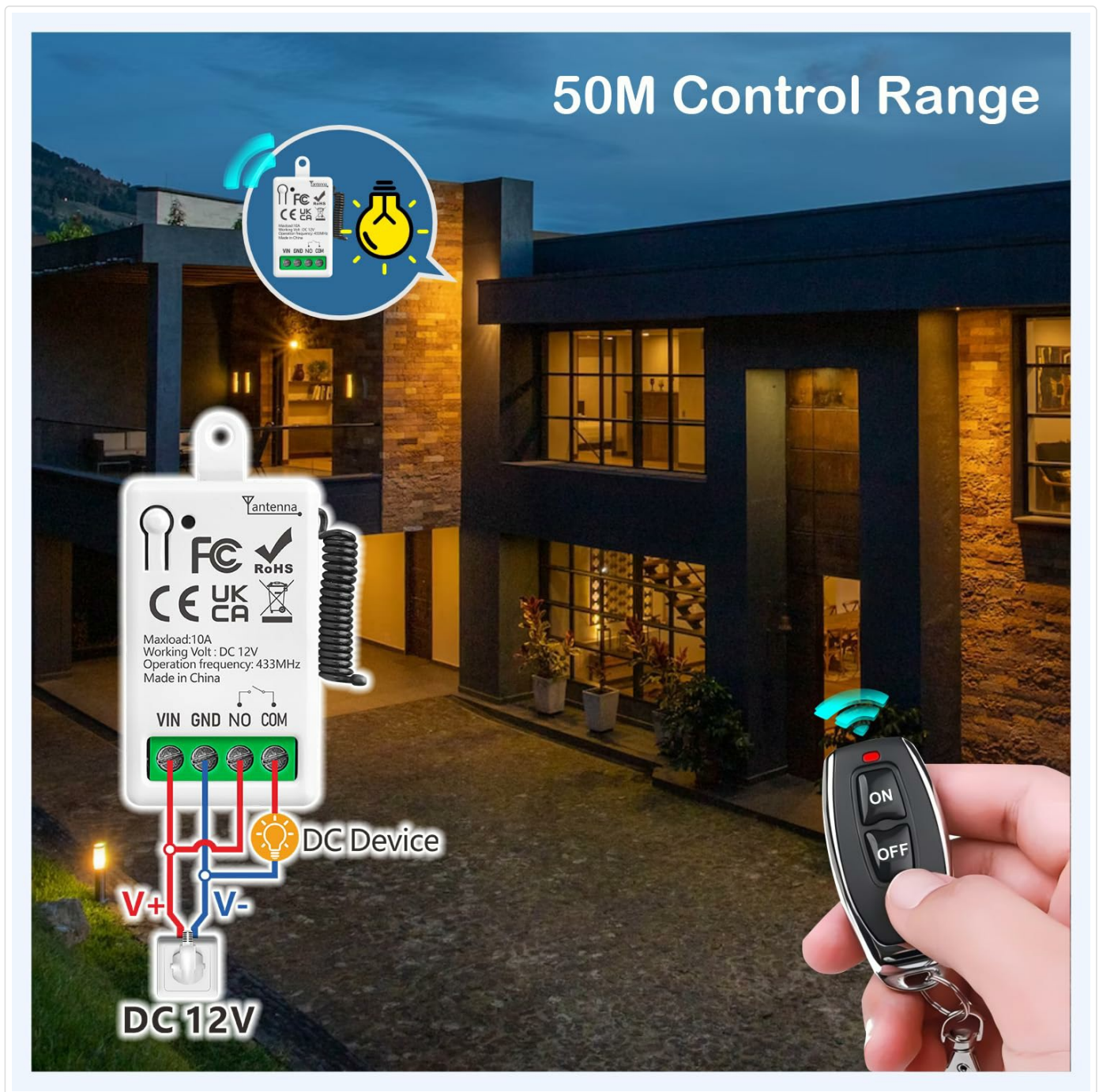


Figure 4: Wiring for a DC Light (50M Control Range)

Example: Garage Door System Wiring

For garage door systems, the receiver acts as a dry contact switch, mimicking a wall button. Connect the NO and COM terminals of the receiver to the corresponding input terminals on your garage door opener's control board, where the wall button would normally connect.

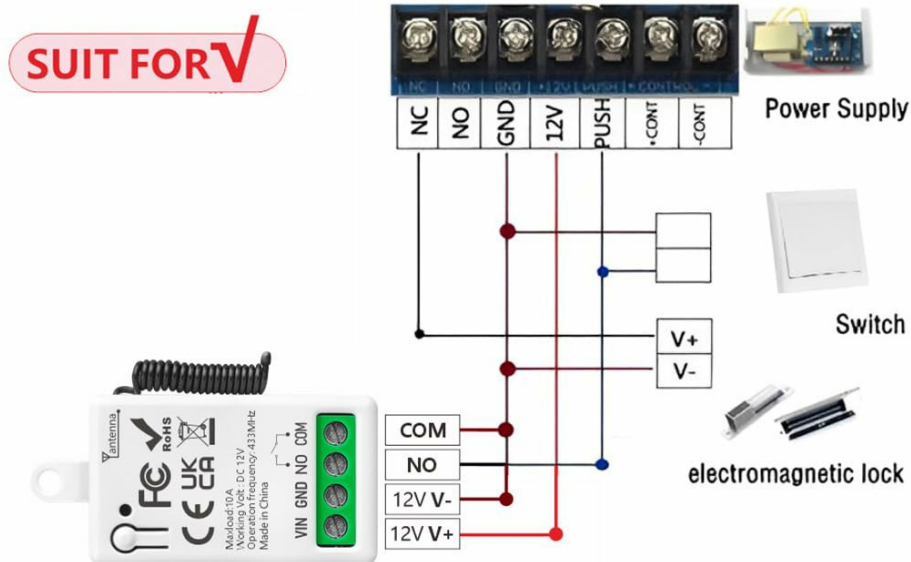
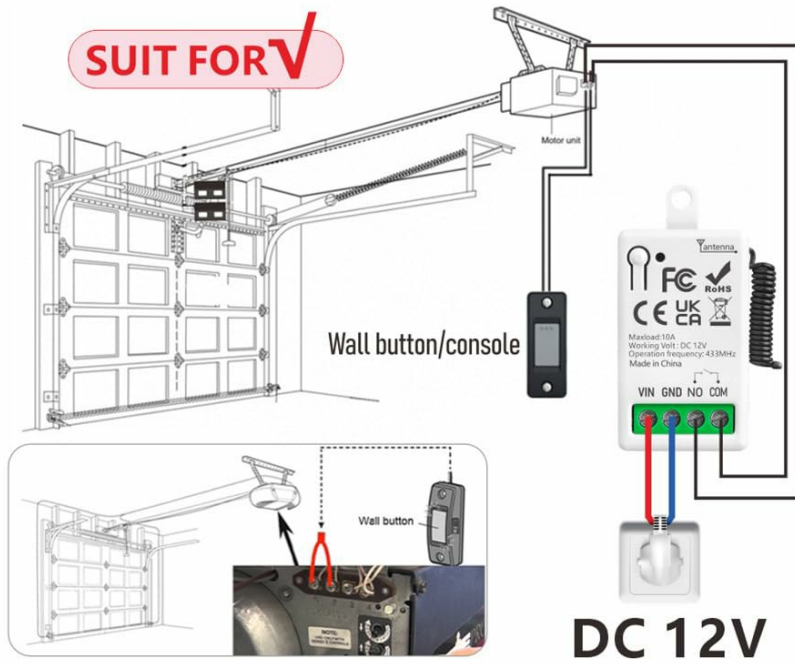


Figure 5: Garage Door System Wiring

Example: Electromagnetic Lock Wiring

To control an electromagnetic lock, connect the lock's power input to the NO and COM terminals of the receiver. Ensure the lock's power requirements are compatible with the receiver's 12V DC output and 10A maximum current.



Figure 6: Electromagnetic Lock Wiring

OPERATING MODES AND PAIRING

The receiver supports four operating modes: Momentary, Toggle, Latched, and Delay. Each mode offers different control behaviors. The device is pre-configured in Latched mode. To change the mode or pair additional transmitters, follow the instructions below. The 'Learning Button' is located on the receiver module.

4 Control Modes

Momentary (Monostable) Mode



Toggle (Bistable) Mode



Latched Mode



Delay Mode



Figure 7: Overview of Control Modes

1. Momentary (Monostable) Mode

In Momentary mode, the relay activates only while the remote button is pressed and held. It deactivates upon release.

Pairing: Press the receiver's Learning Button **1 time**. The indicator light will turn on. Then, press the 'ON' button on the remote control **1 time**. The indicator light will flash and turn off, indicating successful pairing.



Figure 8: Momentary Mode Pairing

2. Toggle (Bistable) Mode

In Toggle mode, one press of the remote button activates the relay, and another press deactivates it.

Pairing: Press the receiver's Learning Button **2 times**. The indicator light will turn on. Then, press the 'ON' button on the remote control **1 time**. The indicator light will flash and turn off, indicating successful pairing.



Figure 9: Toggle Mode Pairing

3. Latched Mode

In Latched mode, pressing the 'ON' button activates the relay, and it remains active until the 'OFF' button is pressed to deactivate it. This is the default mode.

Pairing: Press the receiver's Learning Button **3 times**. The indicator light will turn on. Then, press the 'ON' button on the remote control **1 time**, followed by pressing the 'OFF' button **1 time**. The indicator light will flash and turn off, indicating successful pairing.



Figure 10: Latched Mode Pairing

4. Delay Mode

In Delay mode, pressing the 'ON' button activates the relay for a set duration (5, 10, 15, or 20 seconds) before automatically deactivating.

Pairing: Press the receiver's Learning Button **4, 5, 6, or 7 times** to set the delay to 5, 10, 15, or 20 seconds respectively. The indicator light will turn on. Then, press the 'ON' button on the remote control **1 time**. The indicator light will flash and turn off, indicating successful pairing.



Figure 11: Delay Mode Pairing

Clearing Paired Transmitters

To clear all paired transmitters from the receiver's memory, press and hold the Learning Button on the receiver for approximately 8 seconds until the indicator light flashes rapidly and then turns off. All previously paired transmitters will be removed.

APPLICATIONS

This versatile wireless remote control system can be used in a wide range of DIY applications:

DC12V 10A Relay Receiver

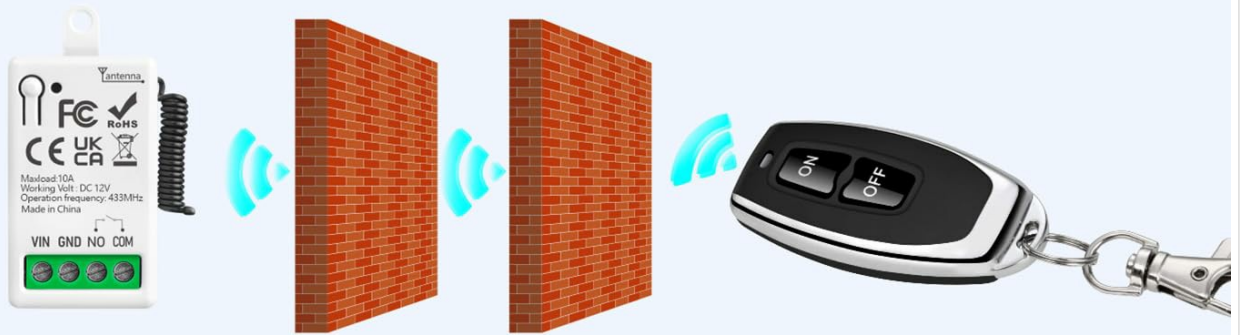


Figure 12: Diverse Application Scenarios

- **Lighting Control:** Turn on/off lamps, LED strips, and other DC 12V lighting fixtures.
- **Garage Door/Gate Openers:** Integrate with existing garage door or gate systems for remote access.
- **Access Control:** Control electromagnetic locks for doors or gates.
- **Motor Control:** Operate small DC 12V motors, such as those in electric fans or automated systems.
- **Water Pumps:** Control garden irrigation pumps or fish pond aerators.
- **Security Alarms:** Use as part of a wireless security alarm system.

TROUBLESHOOTING

- **Device not responding:**
 - Check if the receiver is properly powered (DC 12V).
 - Ensure the remote control battery is not depleted.
 - Verify that the remote control is paired correctly to the receiver in the desired operating mode. Try re-pairing.
 - Check wiring connections for looseness or incorrect polarity.

- **Short control range:**

- Ensure there are no significant obstructions (thick walls, metal structures) between the remote and the receiver.
- Avoid strong electromagnetic interference sources.
- Check the receiver's antenna for proper positioning.

- **Incorrect mode behavior:**

- Re-pair the remote control to the receiver, ensuring you follow the correct steps for the desired operating mode.

MAINTENANCE

To ensure the longevity and optimal performance of your device:

- Keep the receiver and transmitter clean and dry. Wipe with a soft, dry cloth.
- Avoid dropping or subjecting the devices to strong impacts.
- Replace the remote control battery when its performance degrades.

WARRANTY AND SUPPORT

Tedeligo products are manufactured to high-quality standards. If you encounter any issues or have questions regarding your product, please refer to the retailer's return policy or contact Tedeligo customer support for assistance. Please retain your proof of purchase for warranty claims.

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

Email

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

Details

Submit question