

## DieseRC 2201H

# DieseRC 433MHz Wireless RF Remote Control Switch User Manual

Model: 2201H | Brand: DieseRC

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your DieseRC 433MHz Wireless RF Remote Control Switch. This high-power 30A relay system is designed for remote control of various electrical appliances such as lights, water pumps, and other devices operating within AC 85V-250V. Please read this manual thoroughly before installation and use, and retain it for future reference.

## 2. SAFETY INFORMATION

- **Electrical Hazard:** Installation should only be performed by qualified personnel. Ensure power is disconnected before any wiring to prevent electric shock.
- **Voltage Compatibility:** Verify that the voltage of your appliance matches the receiver's operating voltage (AC 85V-250V).
- **Current Rating:** Do not exceed the maximum current rating of 30A for the receiver. Overloading can cause damage or fire.
- **Environmental Conditions:** The receiver is not waterproof. Avoid exposure to moisture or extreme temperatures. If used outdoors, ensure it is housed in a suitable waterproof enclosure.
- **Interference:** This device operates on 433MHz RF frequency. Avoid installing near strong electromagnetic interference sources.

## 3. PACKAGE CONTENTS

- 1 x DieseRC 433MHz RF Receiver (Model 2201H)
- 2 x DieseRC 433MHz RF Transmitters (Remote Controls)

## 4. PRODUCT OVERVIEW

The DieseRC remote control switch system consists of a receiver unit and one or more transmitter units. The receiver connects to your electrical appliance and power source, while the transmitters send wireless signals to control the receiver.

### Receiver Unit

The receiver features input and output terminals for wiring, an indicator light, a learning button, and an antenna for signal reception.



Image: Detailed view of the DieseRC 2201H receiver unit, showing the protective shell, antenna, indicator light, learning button, and wiring terminals for AC input and output.

### Transmitter Unit (Remote Control)

The transmitter is a compact remote control with 'ON' and 'OFF' buttons, an indicator light, and a metal keychain for portability.



Image: Close-up of the DieseRC remote control transmitter, highlighting the 'ON' and 'OFF' silicone buttons, indicator light, chrome bezel, and metal keychain.

## 5. SPECIFICATIONS

| Feature              | Specification                                |
|----------------------|----------------------------------------------|
| Model Number         | 2201H                                        |
| Operating Voltage    | AC 85V-250V                                  |
| Max Current          | 30A                                          |
| RF Frequency         | 433MHz                                       |
| Remote Control Range | Up to 50 meters (164 feet) without obstacles |
| Learning Code        | EV1527                                       |
| Operating Modes      | Momentary, Toggle, Latched                   |
| Transmitter Battery  | 2 x CR2 (included)                           |
| Number of Buttons    | 2 (ON/OFF)                                   |

## 6. SETUP AND INSTALLATION

### 6.1 Wiring Diagram

Ensure power is OFF before wiring. Connect the receiver according to the diagram below. The receiver has terminals for AC Input (L for Live, N for Neutral) and AC Output (L for Live, N for Neutral).



Image: Wiring diagram showing how to connect the DieseRC 2201H receiver between an AC 85V-250V power source and a light fixture. The live (red) and neutral (blue) wires are connected to the input and output terminals respectively.

#### **Wiring Steps:**

1. Disconnect the main power supply to the circuit you intend to control.
2. Connect the AC power source's Live (L) and Neutral (N) wires to the 'AC Input' terminals on the receiver.
3. Connect the appliance's Live (L) and Neutral (N) wires to the 'AC Output' terminals on the receiver.
4. Ensure all connections are secure and insulated.
5. Restore power to the circuit.

#### **6.2 Pairing Transmitters (Learning Mode)**

The receiver supports three operating modes: Momentary, Toggle, and Latched. The default mode is Latched. To pair a transmitter or change the operating mode, follow these steps:

# How to connect 433Mhz remote control

Latched Mode



1. Press the learning button on the receiver **3 times**

3. Press "OFF" button. Succeed.

## How to reset



1. Press the learning button on the receiver **8 times**. Succeed.

Image: Visual guide for pairing the remote control with the receiver (learning mode) and resetting the receiver. It shows pressing the learning button multiple times and then pressing remote buttons.

### To set Latched Mode (Default):

1. Press the learning button on the receiver **3 times**. The indicator light will flash.
2. Press the 'ON' button on the transmitter. The indicator light on the receiver will flash once.
3. Press the 'OFF' button on the transmitter. The indicator light on the receiver will flash once.
4. The pairing is successful. Test by pressing 'ON' and 'OFF' on the remote.

**To set Toggle Mode:** Press the learning button on the receiver **2 times**. Then press any button on the transmitter. The indicator light will flash to confirm.

**To set Momentary Mode:** Press the learning button on the receiver **1 time**. Then press any button on the transmitter. The indicator light will flash to confirm.

### 6.3 Resetting the Receiver

To clear all paired transmitters from the receiver's memory, follow these steps:

1. Press the learning button on the receiver **8 times**.
2. The indicator light will flash rapidly, then turn off, indicating all paired transmitters have been cleared.

## 7. OPERATING INSTRUCTIONS

Once the receiver is wired and paired with the transmitter, you can control your connected appliance wirelessly.

### 7.1 Latched Mode Operation (Default)

- Press the 'ON' button on the transmitter to turn the connected appliance ON.
- Press the 'OFF' button on the transmitter to turn the connected appliance OFF.

### 7.2 Toggle Mode Operation

- Press any button on the transmitter once to turn the connected appliance ON.
- Press the same button again to turn the connected appliance OFF.

### 7.3 Momentary Mode Operation

- Press and hold any button on the transmitter to turn the connected appliance ON.
- Release the button to turn the connected appliance OFF.

## 8. MAINTENANCE

### 8.1 Battery Replacement

The remote control transmitter uses 2 x CR2 batteries. If the remote's indicator light does not illuminate or the range decreases significantly, replace the batteries. To replace:

1. Carefully open the transmitter casing.
2. Remove the old batteries and insert new CR2 batteries, observing correct polarity.
3. Close the casing securely.

### 8.2 Cleaning

Wipe the receiver and transmitter with a dry, soft cloth. Do not use liquid cleaners or solvents, as these may damage the electronic components.

## 9. TROUBLESHOOTING

- **Appliance does not turn ON/OFF:**
  - Check if the receiver is powered on (indicator light should be active).
  - Verify all wiring connections are secure.
  - Ensure the transmitter batteries are not depleted.

- Re-pair the transmitter with the receiver (see Section 6.2).

- **Reduced remote control range:**

- Ensure the receiver's antenna is extended and unobstructed.
- Replace transmitter batteries.
- Minimize obstacles (walls, metal objects) between the transmitter and receiver.
- Avoid strong RF interference sources.

- **Receiver indicator light not active:**

- Check the power supply to the receiver.
- Verify wiring connections.

## 10. WARRANTY AND SUPPORT

DieseRC products are manufactured to high-quality standards. For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.

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**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

