

RF Wireless Receiver (Model 0020331)

Feature:

Wireless control, easy to install

Waterproof case with waterproof connector

Relay output, can control Lights, Motors, Fans, electrically operated Doors/Locks/Windows/Blinds/Cars or Other Appliances with voltage AC 110~240V or DC 0~28V.

Universal input: support voltage of AC110V (100V~120V), widely used in US, Canada... and voltage of AC220V (200V~240V), used in UK, France...

You can turn on/off the receiver with transmitter (remote control) from any place within a reliable distance; the wireless RF signal can pass through walls, floors and doors.

With characteristics of over current protection, short-circuit protection and temperature protection.

Audible / visual indication

Use microcontroller model of EM78P156, an 8-bit microprocessor designed and developed with low-power and high-speed CMOS technology.

Reliable control: The transmitter (Encoding) and the receiver (Decoding) use an 8-bit code.

One/several transmitters can control one/several receivers simultaneously.

If you use two or more receivers in the same place, you can set them with different codes.

Receiver Parameters:

Model No.: S2U-AC220

Power Supply (Operating Voltage): AC100~240V (110V/120V/220V/240V)

Working Frequency: 315MHz / 433MHz

Channel: 2 CH

Control Modes: Toggle, Momentary, Latched, Momentary + Toggle

Output: Relay output (Normally open and normally closed)

Working Voltage Range of Relay: AC110~240V or DC0~28V

Maximum Working Current of Relay: 10A

Static Current: ≤6mA

Wire range: 22~11AWG

PCB size: 88mm x 80mm x 18mm

Case size: 115mm x 90mm x 55mm

Work with Fixed code transmitters or Learning code transmitters.

The receiver can pair different model transmitters, includes model C-2 / C-3 (100M), CWB-2 / CWB-3 (50M, waterproof), CP-2 / CP-4 (500M) and CB-2 / CB-3 (1000M) etc...

If you want to have a further working range, you can install an external antenna to the receiver, such as magnetic mount antenna (model 0020909), which working range is three times as much as it used to be. Or telescopic antenna (model 0020918), which working range is twice as much as it used to be.

Usage (with the transmitter):

The receiver can be used to control both DC 0~28V and AC 110~240V equipments.

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Terminals B and C are Normally Open; Terminals A and B are Normally Closed.

If you want to control a DC 12V lamp, do as following:

- 1) Connect the live wire of the AC power supply to terminal "L / +", and the neutral wire of the AC power supply to terminal "N / -".
- 2) Connect terminal C to the positive pole of the DC power supply, connect terminal B to the positive pole of the DC lamp, and connect the negative pole of the DC lamp to the negative pole of the DC power supply.

If you want to control an AC 220V lamp, do as following:

- 1) Connect the live wire of the AC power supply to terminal "L / +", and the neutral wire of the AC power supply to terminal "N / -".
- 2) Connect terminal C to the live wire of the AC power supply, connect terminal B to one side of the AC lamp, and connect another side of the AC lamp to the neutral wire of the AC power supply.

Setting different control modes (We have set the receiver as Toggle control mode before delivery. If you want to use other control modes, do as following operation):

- 1) Setting control mode Toggle: Connect Jumper-2.

Control mode Toggle (with transmitter C-2): Press -> On; Press again -> Off.

Press button 1: Turn on relay 1 (connect B and C, disconnect A and B)

Press button 1 again: Turn off relay 1 (disconnect B and C, connect A and B)

Press button 2: Turn on relay 2 (connect B and C, disconnect A and B)

Press button 2 again: Turn off relay 2 (disconnect B and C, connect A and B)

- 2) Setting control mode Momentary: Connect Jumper-1.

Control mode Momentary (with transmitter C-2): Press and hold -> On; Release -> Off.

Press and hold button 1: Turn on relay 1 (connect B and C, disconnect A and B)

Release button 1: Turn off relay 1 (disconnect B and C, connect A and B)

Press and hold button 2: Turn on relay 2 (connect B and C, disconnect A and B)

Release button 2: Turn off relay 2 (disconnect B and C, connect A and B)

3) Setting control mode Latched: Disconnect Jumper-1 and Jumper-2.

Control mode Latched (with transmitter C-3): Press -> On; another relay Off; Press another button -> Off.

Press button 1: Turn on relay 1 (connect B and C, disconnect A and B)

Turn off relay 2 (disconnect B and C, connect A and B)

Press button 2: Turn on relay 2 (connect B and C, disconnect A and B)

Turn off relay 1 (disconnect B and C, connect A and B)

4) Setting control mode Momentary + Toggle: Connect Jumper-1 and Jumper-2.

Control mode Momentary (Channel 1): Press and hold -> On; Release -> Off.

Press and hold button 1: Turn on relay 1 (connect B and C, disconnect A and B)

Release button 1: Turn off relay 1 (disconnect B and C, connect A and B)

Control mode Toggle (Channel 2): Press -> On; Press again -> Off.

Press button 2: Turn on relay 2 (connect B and C, disconnect A and B)

Press button 2 again: Turn off relay 2 (disconnect B and C, connect A and B)

Manual control terminals:

The receiver has manual control terminals, you can connect external devices, sensors, or manual switches to control the receiver.

1) Signal input:

You can connect external devices (with low level output signal) to terminals 1 (signal +) and 3 (signal -), the external device's output signal can control the receiver.

When the external device outputs low level signal to terminal 1 (signal +) and 3 (signal -), turn on the relay1 (connect terminals B and C, disconnect terminals A and B).

When the external device does not output signal to terminal 1 (signal +) and 3 (signal -), turn off the relay1 (disconnect terminals B and C, connect terminals A and B).

You can connect external devices (with low level output signal) to terminals 2 (signal +) and 3 (signal -), the external device's output signal can control the receiver.

When the external device outputs low level signal to terminal 2 (signal +) and 3 (signal -), turn on the relay2 (connect terminals B and C, disconnect terminals A and B).

When the external device does not output signal to terminal 2 (signal +) and 3 (signal -), turn off the relay2 (disconnect terminals B and C, connect terminals A and B).

2) The manual switches:

You can connect one manual switch to terminals 1 and 3, and then you can use this manual switch to control the receiver.

When connect terminals 1 and 3, turn on the relay1 (connect terminals B and C, disconnect terminals A and B).

And when disconnect terminals 1 and 3, turn off the relay1 (disconnect terminals B and C, connect terminals A and B).

You can connect one manual switch to terminals 2 and 3, and then you can use this manual switch to control the receiver.

When connect terminals 2 and 3, turn on the relay2 (connect terminals B and C, disconnect terminals A and B).

And when disconnect terminals 2 and 3, turn off the relay2 (disconnect terminals B and C, connect terminals A and B).

How to pair the transmitter to the receiver:

1) Press the button of receiver; signal LED on the receiver keeps shining. The receiver enters into status of LEARNING.

2) Press any one button on remote control. If signal LED flashes quickly 15 times and turns off, it means learning is successful.

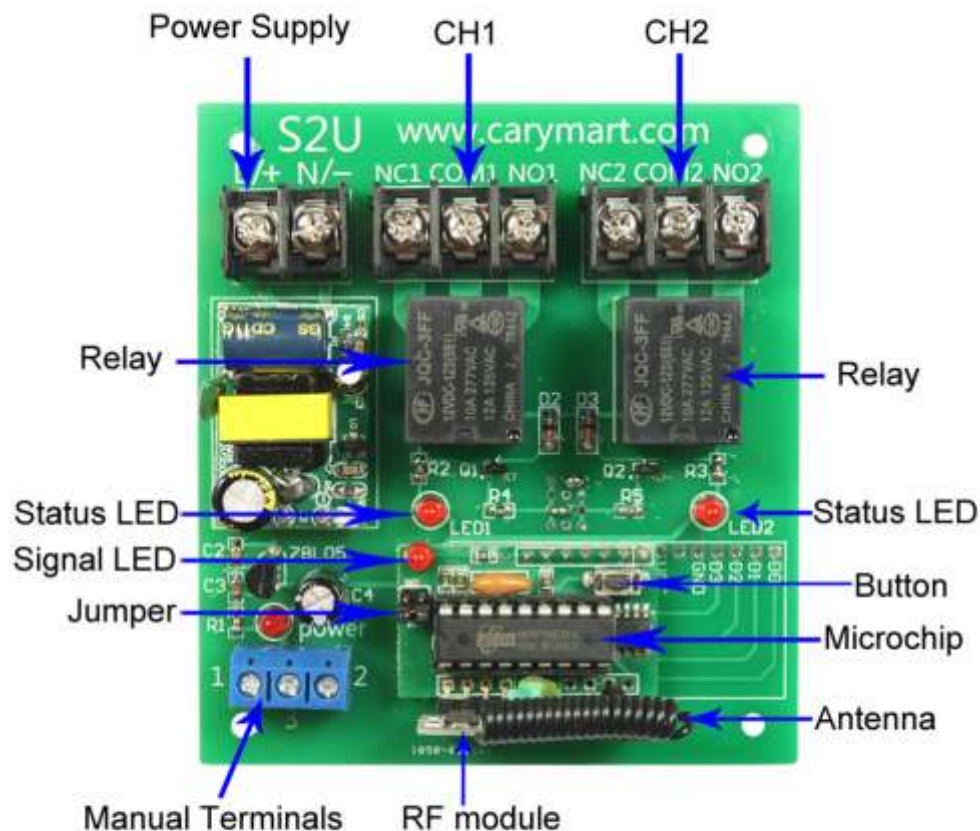
3) When receiver is in the status of LEARNING, press again the button of receiver, signal LED turns off, learning process will be discontinued.

4) The receiver can learn several remote controls with different codes.

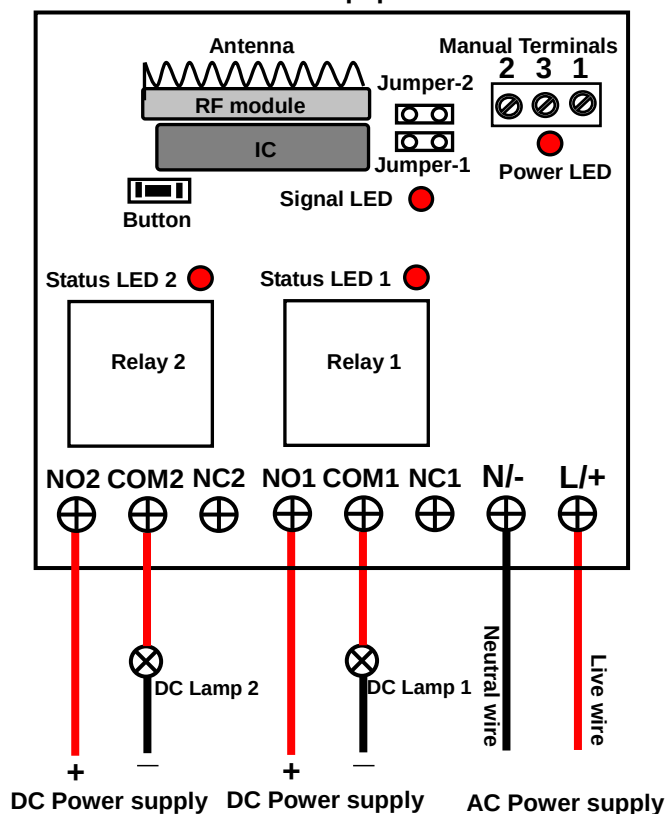
Delete all transmitters:

We have learned remote control to the receiver. If you don't want the receiver to work with the remote control, you can delete all codes of remote controls, which are stored in the receiver.

Operation: Press and hold the button of receiver until signal LED flashes slowly; release the button, LED keeps slow flash. That means all stored codes have been deleted successfully.



Control DC Equipment



Control AC Equipment

