



US 2-channel radio receiver

Technical data

Radio frequency	315 MHz
Rated voltage range	AC/DC 12-24 volt ±20%
Temperature range	-20°C to +70°C
Max. current consumption	80 mA, DC 12 V
Max. current consumption	175 mA, AC 24 V
Floating relay contact output	
Switching capacity (ohmic load)	1.0 A, DC 30 V
Area of application	Dry, fully enclosed interiors
Memory slots	20 radio codes
Dimensions	109 x 40 x 32 mm
Weight	Approx. 55 g
Operating mode	Inching

Safety instructions

- Always disconnect the radio receiver from the power supply and ensure it cannot be reconnected before doing any work on it.
- The remote control of systems which constitute a risk may only occur when the user has a clear view of the given system!
- The local safety regulations applying to the operation of the system concerned require strict compliance to ensure safe operation! The relevant information is available from electricity supply outlets, VDE outlets and employers liability insurance associations.
- The power supply must comply with the requirements of a class 2 safety power supply.
- Fit a fuse or similar to ensure the radio receiver's power supply is protected from disruption (e.g., short circuit).

Correct usage

- No modifications may be made to the receiver.
- The remote control of equipment and/or systems with a risk of accident (e.g., crane systems) is prohibited!
- The remote control may only be used for equipment and/or systems where the malfunction of the transmitter and/or radio receiver does not constitute a risk to people, animals or property, or in cases where this risk has been eliminated by means of additional safety facilities.

- The operator is in no way protected from interference from other telecommunications systems or equipment (e.g., radio-controlled systems which are licensed to operate within the same frequency range).

- This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept every interference received, including interference, that may cause undesired operation.

- Maximum cable length for all connections (apart from C) 3 m.

Connections

- A. Floating relay contacts, max. permitted cable cross-section 1.5 mm², loading capacity: 1 A, AC 30 V; 0.5 A, AC 125 V

Voltage supply	
A.1	AC/DC 12-24 volt
A.2	Earth

Relay contact (R1) -> Channel 1



Relay contact (R2) -> Channel 2



- B. Button:
Puts radio receiver into the programming, delete or normal mode.

- C. LEDs:
Indicate which channel has been selected and which operating mode is activated.

C.1	Relay contact (R1) -> Channel 1
C.2	Relay contact (R2) -> Channel 2

Programming the transmitter

1. Press button (B)
 - 1x for channel 1 (R1), LED (C2) lights up
 - 2x for channel 2 (R2), LED (C.2) flashes 2 x
 If no code is transmitted within a period of 10 seconds, the radio receiver switches to normal mode. Interrupting the programming mode: Press the button (B) as often as required to make all the LEDs go out.
2. Press required transmitter button (D). Transmitter transmits the radio code to the radio receiver.

The appropriate LED flashes and then goes out according to which channel has been selected.

3. Repeat the process described under points 1 + 2 to programme further transmitters to the radio receiver. Max. 20 memory slots are available.

Deleting a transmitter button from the radio receiver

Should the user of a multi-user garage system move house and want to take his transmitter with him, all the allocated transmitter's radio codes have to be deleted from the radio receiver.

Important!

For security reasons, each of the transmitter's set buttons and button combinations should be deleted!

1. Press the button (B) and keep it depressed for 5 seconds until an LED starts to flash (regardless of the channel concerned).
2. Release the button (B) – the radio receiver is now in delete mode.
3. Press the button on the transmitter corresponding to the code which needs to be deleted on the radio receiver – the LED goes out. The deleting operation is now complete.

Repeat the process described under points 1 - 3 for all buttons and button combinations.

Deleting the radio receiver's memory

In the event of one transmitter being lost, security considerations require the radio receiver's entire memory to be deleted! Once this has been done, all the relevant manual remote controls can be programmed to the radio receiver once again.

1. Press the button (B) on the radio receiver and keep it depressed. The LED starts flashing slowly after 5 seconds – the LED flashes quickly after a further 10 seconds. After a total of 25 seconds all LEDs turn off.
2. Release the button (B) – the deleting operation is complete.

Connecting an external aerial

- Should the radio receiver's internal aerial provide insufficient range, an external aerial can be connected.
- The aerial cable should not be allowed to exert any mechanical stress on the radio receiver.

Warranty

The warranty complies with the statutory requirements. Your local stockist should be contacted in connection with any warranty-related matters. Your warranty entitlements only apply in the country in which the transmitter was purchased.

If you require after-sales service, spare parts or accessories, please contact your specialist retailer.

Troubleshooting

LED (C.1 + C.2) is flashing:

The user is attempting to occupy more than 112 memory slots on the radio receiver.

LED lights up:

Programming mode – the radio receiver is waiting for a transmitter to transmit its radio code.