

Latest operating instructions

Download the latest operating instructions via the link www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.



Explanation of symbols



An exclamation mark in a triangle indicates important instructions in this operating manual that absolutely have to be observed.



The arrow symbol indicates specific tips and advice on operation.

Delivery content

- RS2W wireless remote control
- Battery CR2032
- Operating instructions

Intended use

The radio remote control can wirelessly switch a suitable receiver of the RS2W radio system (or a load connected to it) on or off. The radio remote control is operated via a battery of "CR2032" type.

A special feature is that the radio remote control gives a feedback via LED, indicating whether the taught-in radio receivers (max. 5) of the RS2W radio system have received the key commands or not.

It is intended for indoor use only. Do not use it outdoors. Contact with moisture, e.g. in bathrooms, must be avoided under all circumstances.

For safety and approval purposes, you must not rebuild and/or modify this product. If you use the product for purposes other than those described above, the product may be damaged. In addition, improper use can cause hazards such as short circuiting, fire etc. Read the instructions carefully and keep them. Make this product available to third parties only together with its operating instructions.

This product complies with the statutory national and European requirements. All company names and product names are trademarks of their respective owners. All rights reserved.

Safety instructions



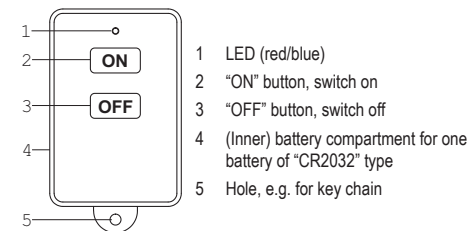
Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

a) General

- The device is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- Protect the product from extreme temperatures, direct sunlight, strong jolts, high humidity, moisture, flammable gases, vapours and solvents.
- Do not place the product under any mechanical stress.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. Safe operation can no longer be guaranteed if the product:
 - is visibly damaged,
 - is no longer working properly,
 - has been stored for extended periods in poor ambient conditions or
 - has been subjected to any serious transport-related stresses.
- Please handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.
- Also observe the safety and operating instructions of any other devices which are connected to the product.
- Do not use this product in hospitals or medical institutions. Although the transmitter of the RS2W radio system emits only relatively weak radio signals, these may lead to malfunction of life-sustaining systems. The same may also apply to other areas.
- The product must not become damp or wet!
- Consult an expert when in doubt about operation, safety or connection of the device.

- Maintenance, modifications and repairs are to be performed exclusively by an expert or at a qualified shop.
 - If you have questions which remain unanswered by these operating instructions, contact our technical support service or other technical personnel.
- ### b) Batteries
- Correct polarity must be observed while inserting the batteries.
 - Batteries should be removed from the device if it is not used for a long period of time to avoid damage through leaking. Leaking or damaged batteries might cause acid burns when in contact with skin, therefore use suitable protective gloves to handle corrupted batteries.
 - Batteries must be kept out of reach of children. Do not leave batteries lying around, as there is risk, that children or pets swallow them.
 - All batteries should be replaced at the same time. Mixing old and new batteries in the device can lead to battery leakage and device damage.
 - Batteries must not be dismantled, short-circuited or thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

Operating elements



Inserting/replacing the battery

- Delivery includes a CR2032 type battery. This is possibly already inserted in the battery compartment. A protective plastic strip between the battery and battery contacts prevents premature discharge here; remove this strip.
- Open the battery compartment of the radio remote control, simply pry the two halves apart carefully (e.g. with a finger nail). The two halves are just clipped together. Do not use any force during the disassembly.
- Insert a battery of the "CR2032" type, while noting the correct polarity (or remove the protective plastic strip). The plus pole of the button cells points from you outward.
- Place the housing cover and press the two halves together carefully (note the correct position) so that the retaining clips snap into place. Do not exert any force.

- A battery change is required if the range of the radio remote control decreases significantly or the LED (1) does not light up any more when the buttons are pressed.

Operation

- Keep a minimum distance of 20 - 30 cm between the radio remote control and the radio receiver used.

a) Resetting the radio remote control

At initial start-up, you should first perform a reset and only then teach-in the radio receiver(s).

Reset also deletes all the taught-in/ saved radio receivers.

Proceed as follows to perform a reset:

- Press and hold down both buttons ("ON" and "OFF") for (about 3 seconds) until the LED (1) flashes red (then, release the buttons for 1 - 2 seconds).
- Press and hold down both buttons again ("ON" and "OFF") for (about 6 seconds) until the LED (1) flashes blue. Then, let go of both buttons.

b) Teach-in of a radio receiver with the radio remote control

- It is possible to teach-in up to 5 different radio receivers at every transmitter of the RS2W radio system (e.g. radio-controlled switch socket). However, do not mix the radio-controlled switch and dimmer.

- Switch off the radio receiver of RS2W radio system that you want to teach-in via its control button (see operating instructions for the radio receiver used).

- Press and hold down both buttons (“ON” and “OFF”) of the radio remote control for (about 3 seconds) until the LED **(1)** flashes red.
- Hold down the control button on the radio receiver until the teach-in process on the radio remote control is completed. Here, the LED **(1)** lights up briefly blue and then, goes out again.
- The radio receiver switches on to indicate the end of the teach-in process.

→ If 5 radio receivers at the radio remote control have already been taught-in, the LEDs light up as described above when it is attempted to teach-in another radio receiver. However, the radio receiver is not taught-in and it does not respond to key commands of the radio remote control.

c) Deleting a radio receiver from the radio remote control

→ Please proceed as described in the teach-in process.

d) Turning the taught-in radio receiver on/ off

- Press and release the “ON” button of the radio remote control to turn on the taught-in radio receiver. By briefly pressing the “OFF” button, the taught-in radio receiver is turned off.

→ If more than one radio receiver at the radio remote control is being taught-in (up to 5 are possible), all radio receivers are turned on or off.

- If the key command is identified by the receiver, it returns an acknowledgement to the radio remote control; the LED **(1)** lights up blue here for the duration of 0.5 seconds. If no confirmation is received, then the LED **(1)** of the radio remote control flashes red.

In this way, you can always see if the radio receiver (e.g. a radio-controlled switch socket) has executed the key command or not.

→ If more than one radio receiver is being taught-in on the radio remote control (up to 5 are possible), the LED only lights up blue when all radio receivers have recognised the key command and the radio remote control has received the return confirmation.

e) Operation of a dimmer

→ The RS2W radio system comes with a dimmer (e.g. radio-controlled socket with dimmer). Of course, this can be controlled via the radio remote control.

To this end, follow the operating instructions for the dimmer.

f) Deleting a defective/ lost radio receiver, and then teach-in of a new radio receiver

Of course, deleting a damaged or lost radio receiver from the radio remote control (see section c above) is no longer possible. A substitute radio receiver would not allow pairing in this way.

Procedure 1:

- Press the “ON” (or “OFF”) button at least 20x successively and make a pause of at least one second between each press.
- Hold both buttons (“ON” and “OFF”) pressed (about 3 seconds) until the LED **(1)** flashes red (then released both buttons).
- Now, hold the “ON” (or “OFF”) button pressed (about 6 seconds) until the LED **(1)** flashes blue. Then release the button.

Procedure 2:

- Perform a reset on the radio remote control (see Section A above). However, all taught-in radio receivers will be deleted from the radio remote control and they must be reprogrammed.

Procedure 3:

- If the radio remote control has not received any feedback for a key command from a radio receiver at least 20x, it releases the internal memory.

→ The memory is not deleted, but only released for overwriting with a new teach-in operation (see section b). The data will be retained as long as no new radio receiver is taught-in!

This prevents unintentional deletion of a radio receiver that is temporarily out-of-range (and you press the “ON” - or “OFF” button 20x or more). Successful feedback resets this internal counter.

- If you want to “delete” a defective or lost radio receiver in this way, press the “ON” (or “OFF”) button at least 20x in succession and allow a short break of at least one second between each keystroke. Then, the memory released now can be used for teach-in of a new radio receiver (see section b).

→ If the defective/ lost radio receiver is not replaced by another new one, then you have to perform a reset as described in the “Procedure 2”.

The reason for this is that the LED would not light up blue on the radio remote control, as one of the paired radio receiver (the defective/ lost one) does not send any feedback on the successful receipt of the key command to the radio remote control.

- Alternatively, proceed as described above in “Procedure 1 or 2” to delete the defect/lost radio receiver directly.

Range

The transmission range of the radio signals, between the radio remote control and the radio receiver, is up to 150 m under optimum conditions.

→ This value, however, is the so-called “open space range” (the range when transmitter and receiver are visible to each other, without interfering influences).

In practice, however, there may be walls, room ceilings, etc. between the transmitter and the receiver which will reduce the range accordingly.

Due to the different influences on the radio transmission, no specific range can be guaranteed. However, trouble-free operation is usually possible in a single family house.

Sometimes the range can be considerably reduced due to:

- Walls, reinforced concrete slabs, drywall walls with metal frame construction
- Coated/metallised insulated glass
- Proximity to metallic & conductive objects (e.g., heating elements)
- Proximity to human bodies
- Other devices on the same frequency (e.g. radio headphones, wireless speakers)
- Proximity to electric motors / appliances, transformers, power supplies, computers

Care and cleaning

- Apart from the occasional battery change, the product is maintenance-free.
- Clean the product with a soft, clean, dry cloth.
- Never use aggressive cleaning agents or chemical solutions since these could damage the surface of the casing or impair operation.

Declaration of Conformity (DOC)

Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau hereby declares that this product conforms to the 2014/53/EU directive.

→ Click on the following link to read the full text of the EU declaration of conformity: www.conrad.com/downloads

Select a language by clicking on a flag symbol and enter the product order number in the search box. You can then download the EU declaration of conformity in PDF format.

Disposal

a) Product



Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product according to the relevant statutory regulations.

Remove any inserted batteries and dispose of them separately from the product.

b) Batteries



You as the end user are required by law (Battery Ordinance) to return all used batteries. Disposing of them in the household waste is prohibited.

Contaminated batteries are labelled with this symbol to indicate that disposal in the domestic waste is forbidden. The designations for the heavy metals involved are: Cd = Cadmium, Hg = Mercury, Pb = Lead (name on batteries, e.g. below the trash icon on the left).

Used batteries can be returned to collection points in your municipality, our stores or wherever batteries are sold.

You thus fulfil your statutory obligations and contribute to the protection of the environment.

Technical data

Power supply1x battery of “CR2032” type
 Transmission frequency868.000 - 868.600 MHz
 Transmission rangemax. 150 m (in open area)
 Transmission power<14 dBm
 Number of receiversmax. 5
 Ambient conditions0 to +45 °C,
 0 - 90% RH (non-condensing)
 Dimensions (L x W x H)45 x 30 x 13 mm
 Weightapprox. 17 g (without battery)

This is a publication by Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau (www.conrad.com).

All rights including translation reserved. Reproduction by any method, e.g. photocopy, microfilming, or the capture in electronic data processing systems require the prior written approval by the editor. Reprinting, also in part, is prohibited. This publication represent the technical status at the time of printing.

Copyright 2019 by Conrad Electronic SE. *1761755_V2_0419_02_mxs_m_en