sygonix®

RS2W radio-controlled switch

Item no. 1761777

CE

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

The lightning symbol inside a triangle is used when there is a potential risk of personal injury, such as electric shock.

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.

The product is only intended to be installed and used in dry, indoor rooms; it must not get damp or wet.

Observe the operating instructions!

Delivery content

- RS2W radio-controlled switch
- Operating instructions

Intended use

In conjunction with an appropriate radio transmitter of the RS2W systems is this product capable of switching on or off a connected load wirelessly.

The wireless switch may only be used on mains voltage (230 V/AC, 50 Hz). A maximum load of 2000 W/8.7 A (resistive load) or max. 600 W/2.6 A (inductive load) can be connected.

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, electric shock 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.

- 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.
- This product may only be installed by a qualified technician (e.g., an electrician) who is familiar with the relevant regulations (e.g., VDE, German electrical wiring regulations)!
- Improper work carried out on the mains voltage endangers not only your own life, but also the life of others!
- If you do not have the expertise required for the installation, do not install it yourself but ask a qualified technician.
- Only use the product when it is securely installed and steady. Install the product in a suitable flush or wall mounted box or any other suitable housing, so that the required protection against accidental contact is ensured.
- Keep the product out of strong magnetic fields prevalent near machines, electric motors or loudspeakers.
- Do not use this product in hospitals or medical institutions. Although RS2W radio system transmitters only emit relatively weak radio signals, these may lead to the malfunctioning of life-support systems. The same may also apply to other zones.
- Never touch, operate, plug in or unplug the product with damp or wet hands. There is a risk of a life-threatening electric shock!
- Only carry out the installation when all the mains cables to the wireless switch are disconnected from the mains voltage. Otherwise, there is a risk of a life-threatening electric shock!
- An all-pole disconnection from the mains voltage (such as a surge protector) must be provided as part of the wiring set-up.
- Never connect the product to the power supply immediately after it has been transferred from a cold room into a warm one (e.g., during transport). Condensation water that forms might destroy the device. Moreover, there is danger of electric shock!

  Allow the device to reach room temperature before switching it on. Wait until the condensation has evaporated. This might take several hours. Only after this should it be plugged in to the mains supply and put into use.
- Never overload the product. Observe the maximum connected load in the chapter "Technical Data".
- Do not use the product if it is damaged. There is a risk of a life-threatening electric shock! In this case, dispose of the product in an environmentally correct manner.
- If it can be assumed that safe operation is no longer possible, the device must be turned off and precautions must be taken to ensure that it is not used unintentionally. Do not touch the wireless switch or any device connected to it.
- Disconnect the wireless switch from the mains by switching off at the appropriate circuit breaker or by pulling out the fuse. Furthermore, turn off the earth leakage circuit breaker to disconnect all the poles of the mains supply.
- Use the product only in a temperate climate, never in a tropical climate.
- 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.

Installation and connection

Refer to the section "Preparations for Installation".

The wireless switch makes an ideal complementary component for a standard wall switch providing an additional wireless switching function.
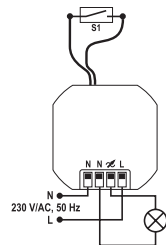
This means you can keep your existing wall switch (e.g. for room lighting) and use it with an additional radio transmitter of the RS2W radio system.

That requires, that the flush mounted box provides sufficient space for installing the wireless switch behind the existing wall switch.

Ensure proper protection against accidental contact when you connect, mount and later use the wireless switch. Otherwise, there is a risk of a life-threatening electric shock!

- Remove the cover of your existing wall switch and take the switch out of the flush mounted box.
- Connect the two wires on the wireless switch to the two switch contacts on your wall switch ("S1"), see picture to the right.
- Connect the device to the two middle screw terminals. The connection "N" is the neutral conductor, the connection "⌀" is the connected output/phase/L.
- The outer two screw terminals are used for connecting to the mains voltage ("N" = Neutral wire, "L" = Phase).

Preparations for installation

Please observe the chapter "Safety instructions"!

- To use, install the wireless switch in a suitable flush or wall mounted box or other suitable housing.
- Install the wireless switch only, if the switch is disconnected from the mains. First switch off all poles of the mains supply by switching off at the circuit breaker or removing the fuse and then also switch off the associated residual current device.

  Secure it against unauthorised reconnection, e.g., with a danger sign. Then check the mains connection for absence of voltage using a suitable tester.

- Place the wireless switch in the flush-mounted box in such a way that the control key and the LED point outward toward you.

→ The control button is required for assigning to a radio transmitter of the RS2W radio system.

Ensure that there is enough free space around the control button, so it will not be switched on by accident.

- Before mounting wall switch and cover, perform first the teach-in procedure.
- Now, switch on the mains voltage.

Function test: Switching the connected device on/off using the control button

Briefly press the control button on the wireless switch to switch the connected device on or off.

The LED next to the control button shows the actual status:
- LED is on: Device is switched on
- LED off: Device is switched off

Teach-In of the wireless switch to a radio transmitter

→ The wireless switch can be taught-in to any radio transmitter of the RS2W radio system.

Follow the operating instructions of the radio transmitter that will be used prior to the teaching procedure.

During the teach-in process maintain a 20 - 30 cm minimum distance between the wireless switch and the radio transmitter. Failing to do this may result in a registration failure.

- If the wireless switch is on (LED next to the control button is on, device is activated), switch off the wireless switch first.

Briefly press the control button, the LED next to the control button must go dark.

→ The wireless switch must be switched off (LED next to the control button is off), or else the registration process cannot be conducted.

- Start with the registration process on the radio transmitter.

Example: On a 12-channel hand-held radio transmitter of the RS2W radio system press the keys "ON" and "OFF" of the desired switch channel together with a dimmer, which is available for the RS2W wireless system! Always assign the dimmer to a separate channel on the radio transmitter.

Deleting a taught-in wireless switch from a radio transmitter

The procedure corresponds exactly to the teach-in procedure for the wireless switch to the radio transmitter. For more information consult the operating instructions for the radio transmitter of the RS2W radio system that will be used.

Switching the device on/off

The wireless switch and the connected device can be turned off wirelessly only when it has been registered on a radio transmitter of the RS2W radio system. Follow the description above and the operating instructions of the radio transmitter that will be used.

The device can be switched on or off via the wireless switch which is connected to the wall switch.

Example: On a 12-channel hand-held radio transmitter of the RS2W radio system press the keys "ON" and "OFF" of the desired switch channel, such as Channel 1, simultaneously until the red LED of the hand-held radio transmitter starts flashing. Release both keys, the red LED keeps flashing and the registration mode is enabled.

- Hold the control button on the wireless switch down for as long as it takes the registration process to finish.

Example: On a 12-channel hand-held radio transmitter of the RS2W radio system the LED lights up blue and then goes dark. Release the control button on the wireless switch.

- The wireless switch switches on, and indicates that the registration process is complete.

→ Up to 5 receivers can be taught-in on a switch channel of a radio transmitter of the RS2W radio system. This means that with one push on a button you can switch on or off up to 5 wireless switches simultaneously for example.

It is also possible to register the wireless switch on several radio transmitter.

⚠ However, do not register a wireless switch on one single switch channel together with a dimmer, which is available for the RS2W wireless system! Always assign the dimmer to a separate channel on the radio transmitter.

Range

The range of the radio signals between the RS2W radio system radio transmitter and the wireless switch 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 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 ceilings, light-weight walls with metal post and beam 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., wireless headphones, wireless loudspeakers)
- Proximity to electric motors/appliances, transformers, power-supply units, computers

Care and cleaning

The product does not require any maintenance. You should not open/dissemble it. Repair or maintenance work must be carried out by a specialist.

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

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.

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

Technical data

Operating voltage	230 V/AC, 50 Hz
Power consumption	approx. 0.4 W (off) or 1 W (on)
Connecting power	resistive load: max. 2000 W (max. 8.7 A)
	inductive load: max. 600 W (max. 2.6 A)

→ Devices with mainly resistive load are e.g., light bulbs, heaters, etc.

Devices with inductive load are, e.g., engines, control gears, conventional transformers, energy saving bulbs, etc.

Transmission/receiving frequency	868.000 - 868.600 MHz
Transmission/receiving range	max. 150 m (in open area)
Transmission power	<14 dBm
Ambient conditions	0 to +45 °C, 0 - 90 % RH (non-condensing)
Dimensions (W x H x D)	49 x 49 x 25 mm
Weight	41 g