



Secure

Z-Wave controlled Boiler Actuator - two channels

SKU: SECESSR302-5



Quickstart

This is a **On/Off Power Switch** for **Europe**. To run this device please connect it to your mains power supply. For Inclusion and Exclusion press and hold both white buttons on the device until the LED starts flashing. (green ->Inclusion, red -> Exclusion)

What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section. (For more information about frequency regulations please refer to [the frequency coverage overview at Sigma Designs Website](#)).

Z-Wave ensures a reliable communication by reconfirming every message (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to www.z-wave.info.



Product Description

The SSR302 is a wirelessly controlled double Relay switch to operate loads up to 3A / 230 V. It is used to control warm water boilers or magnet valves. The device can be operated locally using two buttons. A LED indicated the current switching status. The fashionable design of the device allows mounting it on visible positions in the home. The device is IP 30 rated.

Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

Safety Warning for Mains Powered Devices

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

Installation

Installation and connection of the receiver should only be carried out by a suitably qualified person.

To remove the backplate from the receiver, undo the two retaining screws located on the underside; the backplate should now be easily removed. Once the backplate has been removed from the packaging, ensure the receiver is re-sealed to prevent damage from dust, debris etc. The backplate should be fitted with the wiring terminals at the top and in a position which allows a total clearance of at least 50mm around the receiver.

Direct Wall Mounting

The receiver should ideally be located near an existing power supply within an easy wiring location to the items being switched. Offer the plate to the wall in the position where the receiver is to be mounted, remembering that the backplate fits to the left hand side of the receiver. Mark the fixing positions through the slots in the backplate, drill and plug the wall, then secure the plate in position. The slots in the backplate will compensate for any misalignment of the fixings.

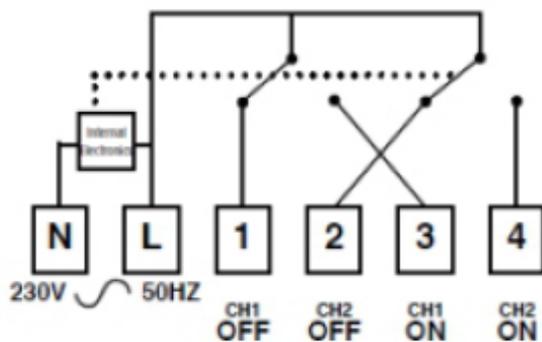
Wiring Box Mounting

The receiver backplate may be fitted directly onto a single gang steel flush wiring box complying to BS4662 using two M3.5 screws. The receiver is suitable for mounting on a flat surface only. It must not be positioned on an unearthed metal surface.

Electrical Connections

All necessary electrical connections should now be made. Flush wiring can enter from the rear through the aperture in the backplate. Surface wiring can only enter from beneath the receiver and must be securely clamped. The mains supply terminals are intended to be connected to the supply by means of fixed wiring. The receiver is mains powered and requires a 3 amp fused spur. The recommended cable sizes are 1.0mm² or 1.5mm².

The receiver is double insulated and does not require an earth connection although an earth connection block is provided on the back plate for terminating any cable earth conductors. Earth continuity must be maintained and all bare earth conductors must be sleeved. Ensure that no conductors are left protruding outside the central space enclosed by the backplate.



Internal Wiring Diagram

The SSR302 has an integral connection which makes it suitable for mains voltage applications only. No additional linking is required between terminals.

Fitting the Receiver

If surface wiring has been used, remove the knockout/insert from the bottom thermostat to accommodate it. Fit the receiver to the backplate, ensure the lugs on the backplate engage with the slots on the receiver. Swing the bottom of the receiver into position ensuring that the connection pins on the back of

the unit locate into the terminal slots in the backplate.

Warning: ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION!

Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right on the device.

Inclusion

For Inclusion press and hold both white buttons on the device until the LED starts flashing. (green ->Inclusion, red -> Exclusion)

Exclusion

For Exclusion press and hold both white buttons on the device until the LED starts flashing. (green ->Inclusion, red -> Exclusion)

Product Usage

The unit supports two static end points for the two channels.

Pressing the Top White button for 1 second will issue an "end point capability report" for channel 1. Pressing the Bottom White button for 1 second will issue an "end point capability report" for channel 2. Additionally the device enters learn mode for 1 second. This is useful when to associate / disassociate the device with a control group or just to determine the device and command classes supported. This can be done at any time but will not provide any indication to the operator

Broadcasting in this manner has been implemented to support association of a channel with a 3rd party controller that supports Multi-Channel Command Class.

Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.

6. Make sure to have enough mains powered device to benefit from the meshing

Association - one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

Association Groups:

Group Number	Maximum Nodes	Description
1	4	Devices controlled by open/close events

Technical Data

Dimensions	0.0870000x0.1800000x0.0370000 mm
Weight	196 gr
Hardware Platform	ZM5202
EAN	5015914213076
IP Class	IP 21
Voltage	230 V
Load	3A
Device Type	On/Off Power Switch
Generic Device Class	Binary Switch
Specific Device Class	Binary Power Switch
Firmware Version	02.01

Z-Wave Version	04.05
Z-Wave Product Id	0x0059.0x0003.0x0006

Supported Command Classes

- Basic
- Switch Binary
- Thermostat Mode
- Association Grp Info
- Multi Channel
- Manufacturer Specific
- Powerlevel
- Association
- Version
- Multi Channel Association
- Zwaveplus Info

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of adding new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.

- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.

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