SC824ZB Smart Relay – Low Voltage

User Manual

SMC-UM-SC824ZB-202001v1_2020-2-28

SC824ZB Smart Relay – Low Voltage User Manual
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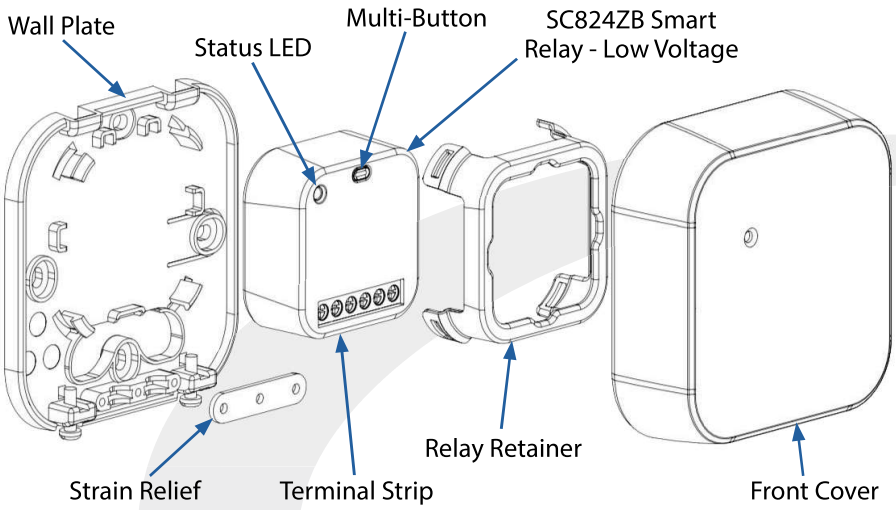
Safety Instructions

Please read these instructions carefully BEFORE INSTALLING and using the SC824ZB Smart Relay. Keep this guide in a safe place for future reference.

- Installation and repairs are to be performed by a qualified contractor in strict accordance with the requirements of state and local regulating agencies. In the absence of local requirements, follow ANSI/NFPA 70, National Electric Code.
- The SC824ZB Smart Relay uses a 24 VAC power source. **DO NOT CONNECT** this device to supply voltages above 30 VAC.
- **DO NOT** expose the Smart Relay to voltage fluctuations of more than 10% (±2.4 VAC)
- **DO NOT** install the SC824ZB in a bathroom or area of excessive moisture.
- **DO NOT** allow the Smart Relay to get wet.
- **DO NOT** expose the SC824ZB Smart Relay to temperatures below -20°F (-4°C) or above 122°F (60°C).
- **DO NOT** allow the Smart Relay to operate in temperatures below 32°F (0°C) or above 113°F (45°C).
- **DO NOT** use solvents or aggressive cleaning agents to clean the device. A dry, soft cloth is recommended.

Section 1 SC824ZB Smart Relay – Low Voltage User Manual
Introduction

Device Overview

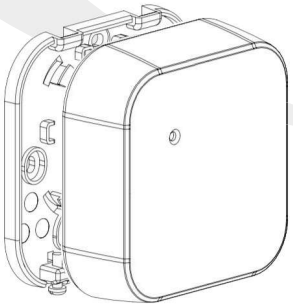


Item	Description
Wall Plate	Allows surface mounting of the SC824ZB Smart Relay
Relay Retainer	Attaches the SC824ZB to the Wall Plate
Multi-Button	For pairing and identification of the SC824ZB Smart Relay
Strain Relief	Prevents damage to the wiring terminals from external forces
Terminal Strip	For connecting relay contacts and power supply
Status LED	Provides status feedback about the SC824ZB Relay

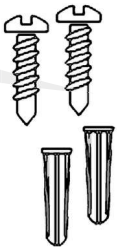
In The Box

BEFORE BEGINNING installation, confirm that all parts are present in the package:

SC824ZB Smart Relay -Low Voltage

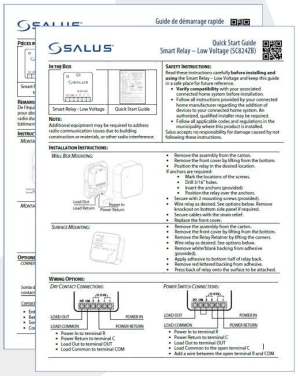


Wall Mount with Cover



Mounting Screws

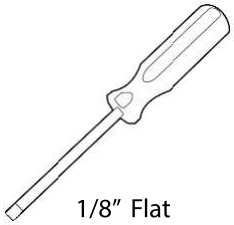
Double-sided Adhesive



Installation Quick-start Guide English / French

Tools Required

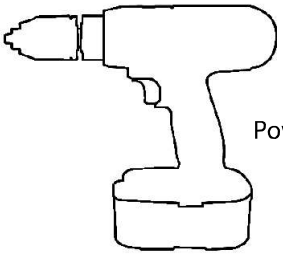
#1 Phillips Screwdriver



1/8" Flat Screwdriver

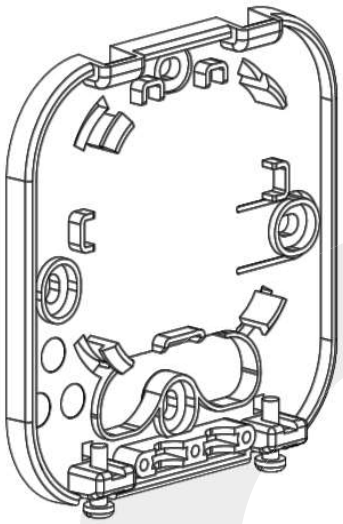
Optional Tools

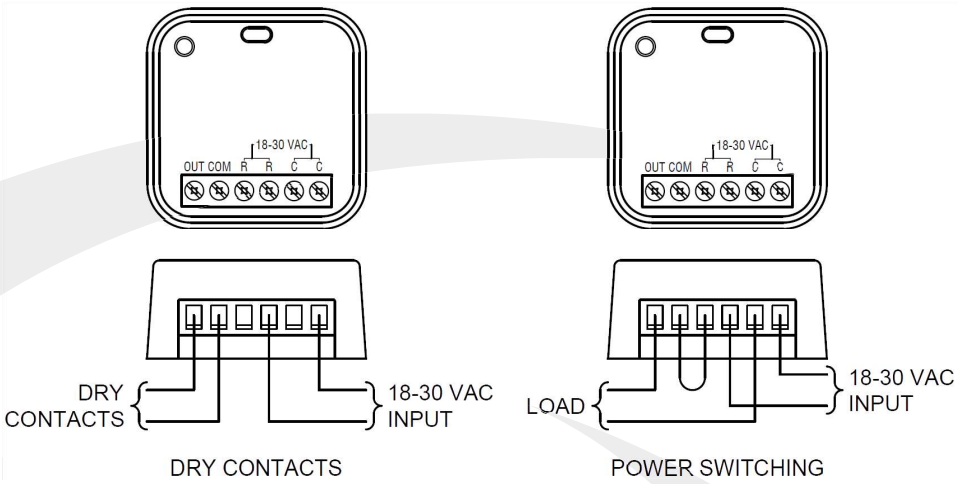
3/16" Drill Bit



Power Drill

Installation Using Wall Mount With Cover

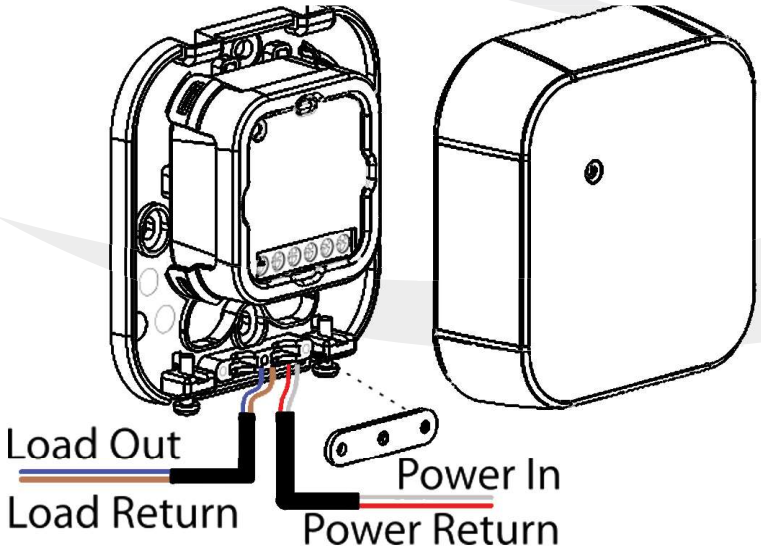


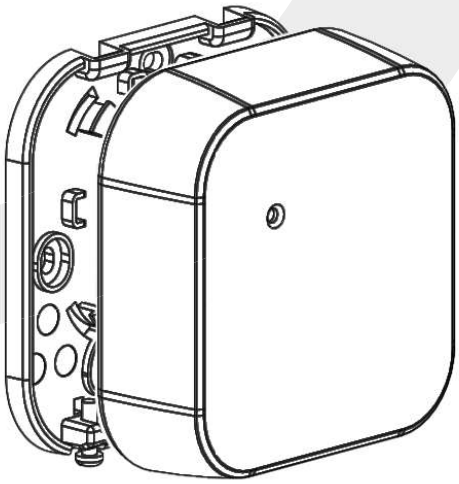


Step 1. Attach the wall plate (if used) for the Smart Relay in a suitable location using the screws included.

Step 2. Wire the SC824 Smart Relay using the appropriate diagram above. Run wires through the strain relief before proceeding to the next step. For a power switching application, a jumper must be applied between R & COM.

- **Locate the Smart Relay in or near the location that it will be installed to account for radio interference**
- **Avoid locations where exposure to splashing water, accumulation of dirt/grease or where temperatures exceed 104°F (40°C)**

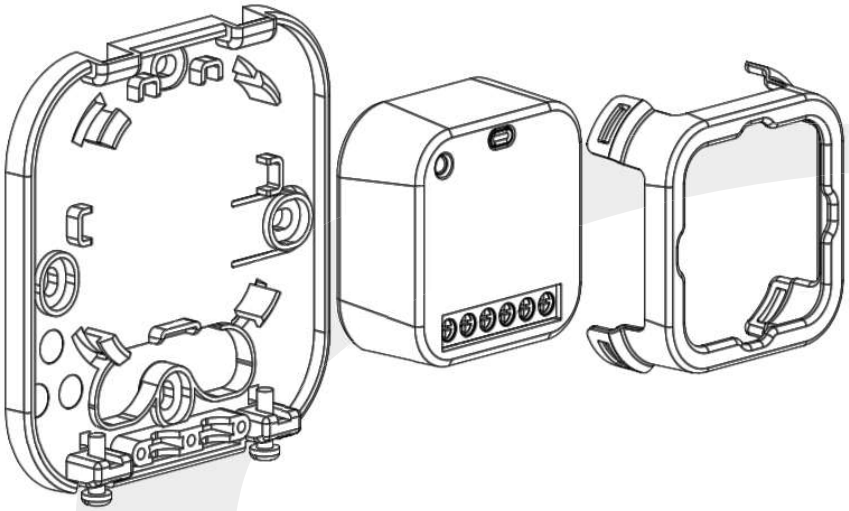




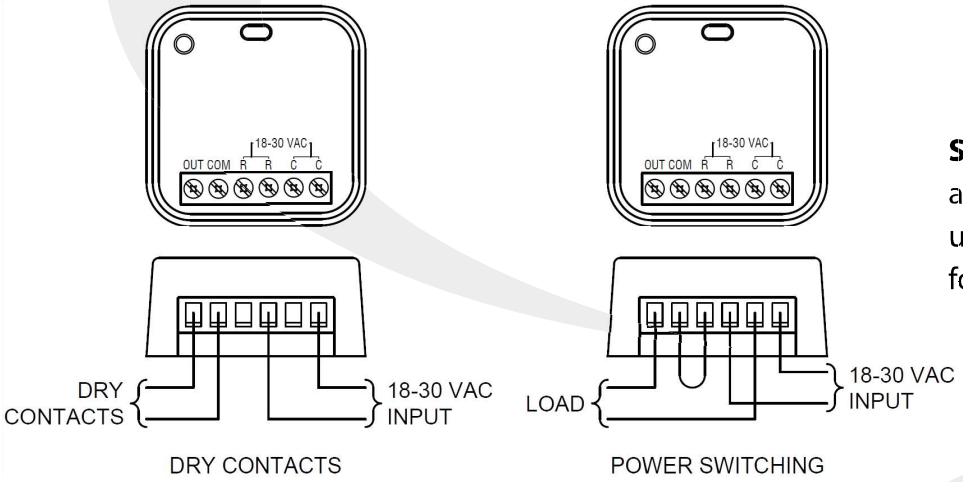
Step 3. Place SC824ZB Smart Relay in the space provided on the wall plate and use the retaining clip to hold it in place. Tighten the strain relief to hold wires securely.

Step 4. Remove the knockout portion of the cover to allow wires to pass through. Assemble the enclosure cover, making sure the wires don't interfere with proper closure.

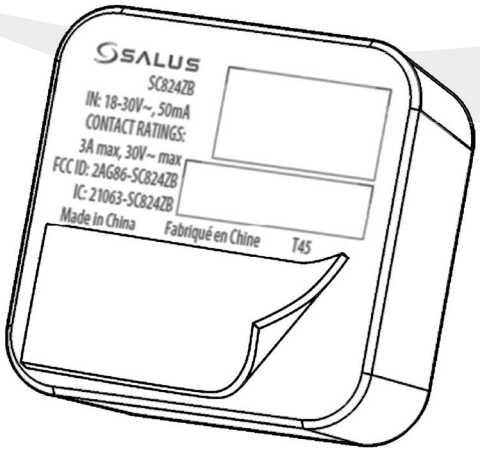
Installation With Surface Mounting Adhesive



Step 1. Remove Smart Relay from Mounting Kit.



Step 2. Wire the relay using the appropriate diagram. Be sure to use a jumper between R & COM for Power Switching.



Step 3. Remove the white backing with no text from the adhesive provided.

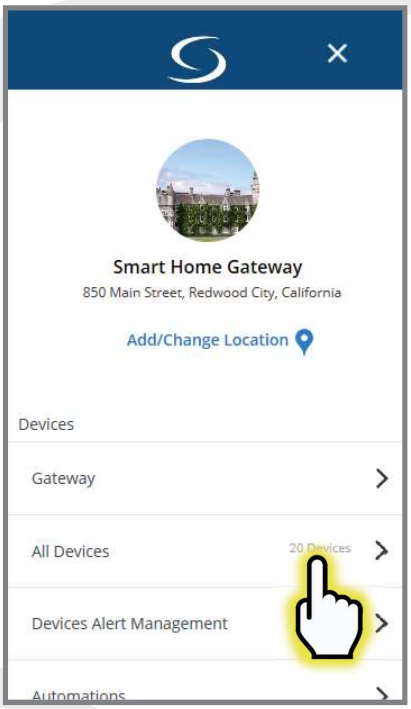
Step 4. Apply the adhesive to the back of the Smart Relay at the bottom below the text.

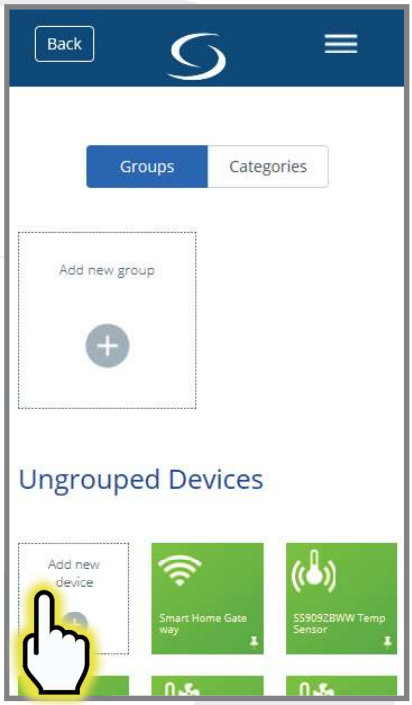
Step 5. Remove the lettered backing from the double-sided adhesive and apply the relay to the desired surface.

Joining the Network for SALUS Smart Home Control Only

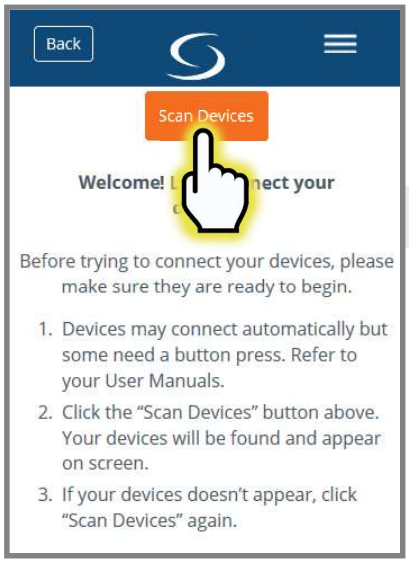
Be sure the Smart Relay is located at or near its intended location to account for potential radio interference.

Step 1. Be sure that there is power applied to the SC824ZB Smart Relay and the Status LED is repeating a sequence of 3 red flashes then pause.

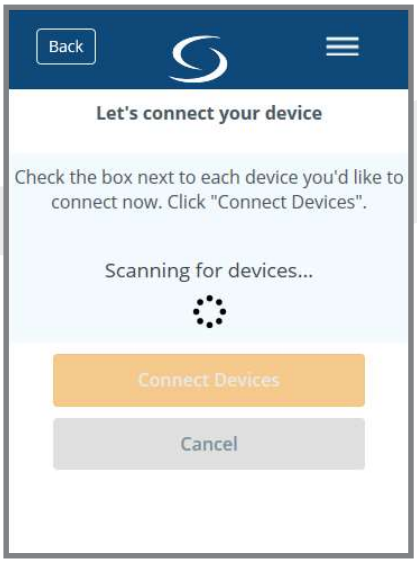




Step 2. Open the SALUS Smart Home application, select the drop-down menu from the upper right of the screen and select: ***All Devices ➔ Add New Device***



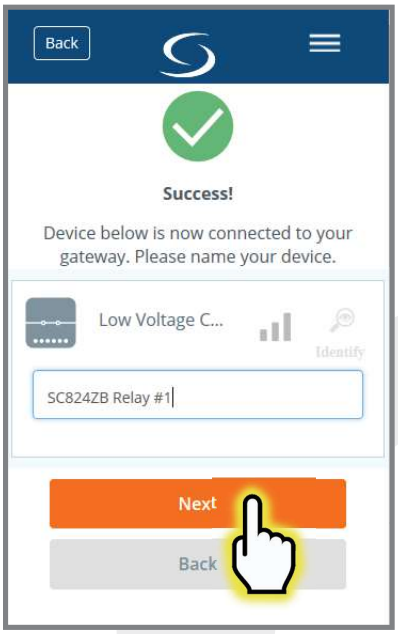
Step 3. Press "Scan Devices."



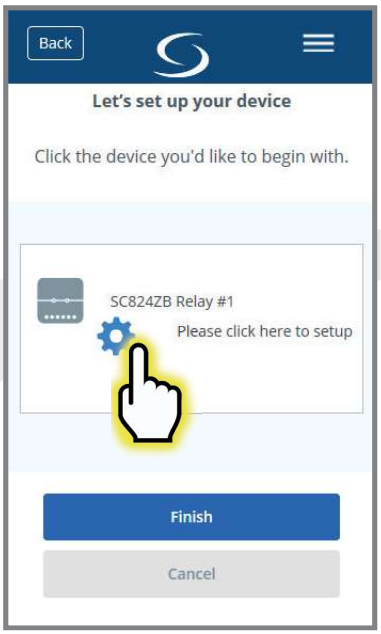
After pressing "Scan for Equipment", the SALUS Smart Home application scans for devices.

Step 4. Check the box for the Smart Relay and press "Connect Devices".

Joining/Pairing Instructions

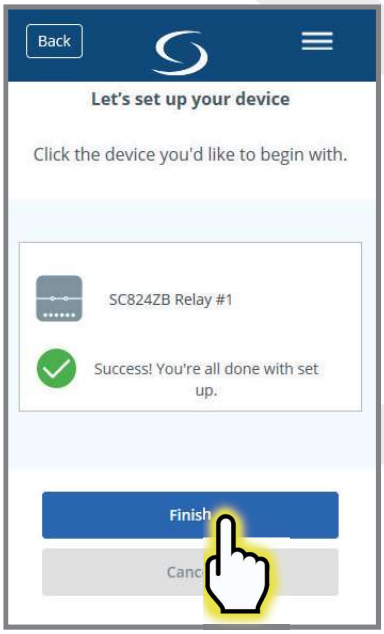


Step 5. Enter a unique descriptive name for each Smart Relay to easily identify each device. Press "Next".



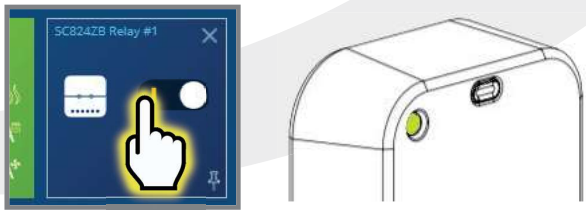
Step 6. Press "Please click here to setup".

Step 7. Press "Complete set up" to continue

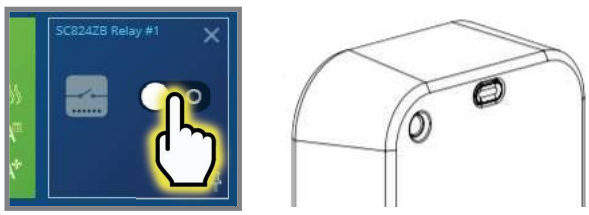


Step 8. Press Finish to complete pairing.

In case of a weak wireless signal, an AE10RF Wireless Repeater may be required.



Step 9. Using the SALUS Smart Home application, power the relay and make sure the Status LED is green.



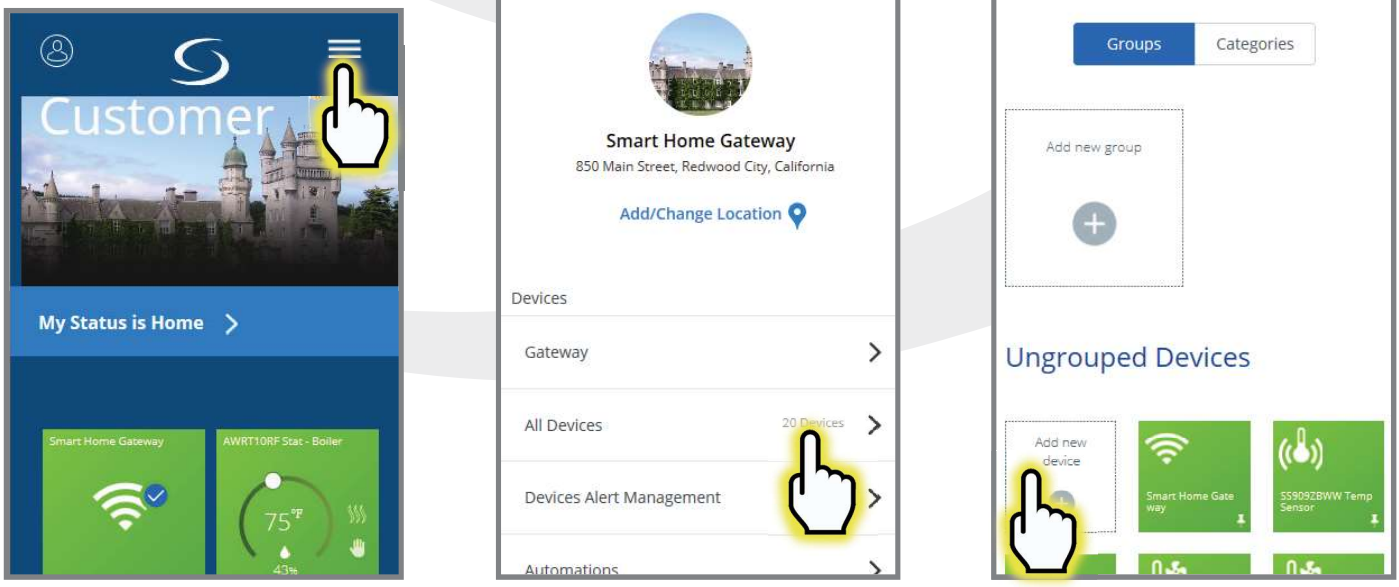
Step 10. Switch off the relay and make sure the Status LED goes off.

Pairing with AWRT10RF Wireless Radiant Thermostat

Step 1. Be sure there is power applied to the SC824ZB Smart Relay and the Status LED is repeating a sequence of 3 red flashes. If the Smart Relay is not flashing as described, reset the device using the procedure described in Section 5.

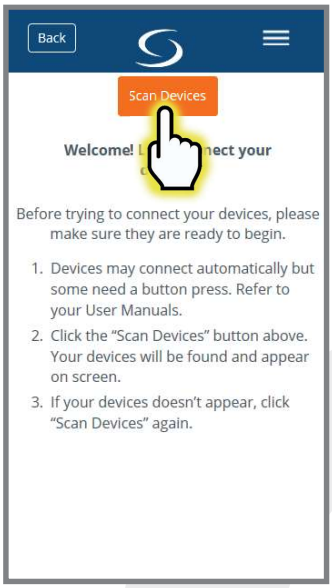
Step 2. Prepare the AWRT10RF Thermostat by inserting the batteries. Use the ∨ key to change from PAIR? RLAY_CTL to PAIR? VALV_NO or PAIR? VALV_NC. Using only the ∨ bypasses the PAIR? RJTR_VLV, PAIR? RCV1 and PAIR? RCV2 options. If the required options aren't displayed, refer to the AWRT10RF IOM for support.

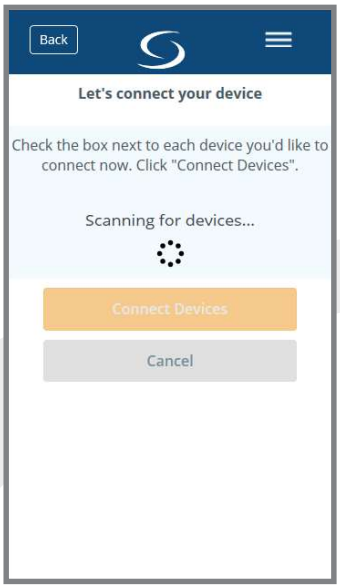
Only the VALV_NO and VALV_NC options can be used with the SC824ZB Smart Relay.



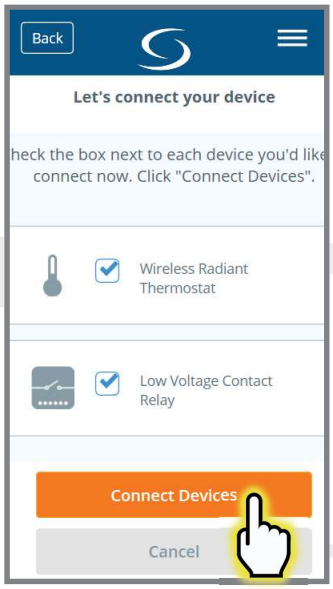
Step 3. Open the SALUS Smart Home application, select the drop-down menu from the upper right of the screen and select: ***All Devices → Add New Device***

Joining/Pairing Instructions

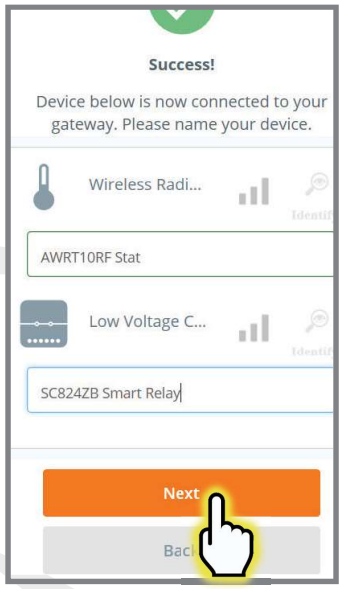




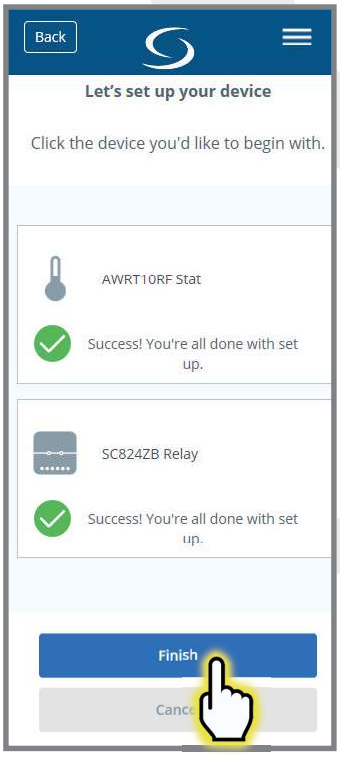
Step 4. Press **Scan Devices. Scanning for devices** is then displayed while the signals are located.



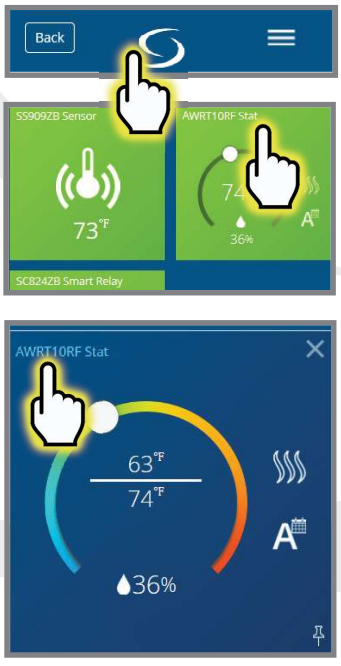
Step 5. Check boxes for the Smart Relay and the Wireless Radiant Thermostat. Press **Connect Devices.**



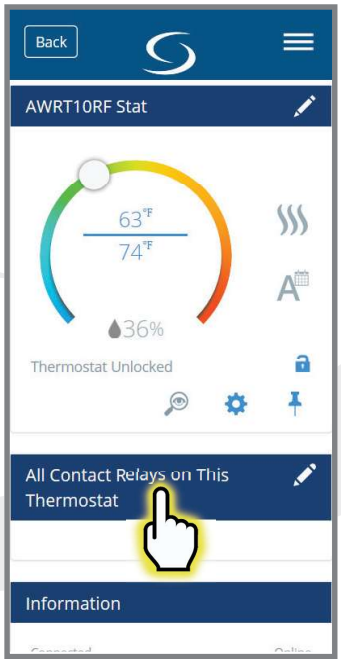
Step 6. Give each device a unique descriptive name. Press **Next**.



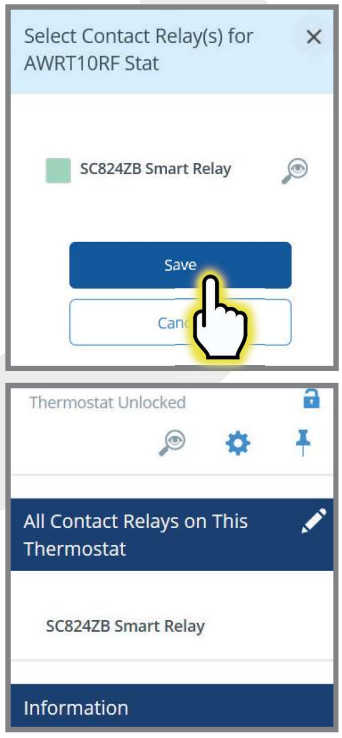
Step 7. After choosing set-up options, press **Complete set up** then **Finish.**



Step 8. Press the SALUS Logo to return to the Dashboard. Choose the AWRT10RF Tile then choose the title in the upper left corner.



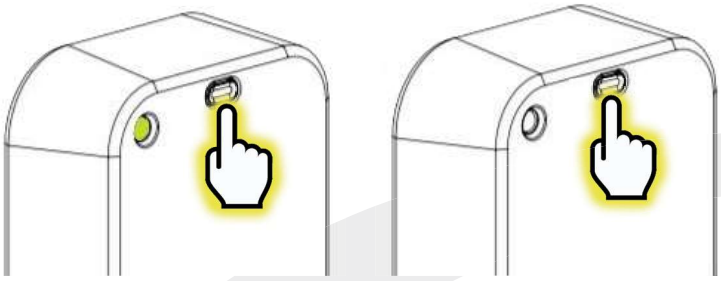
Step 9. Choose **All Contact Relays on This Thermostat.**



Step 10. Be sure that the box(es) next to the Smart Relay(s) that will be controlled by the AWRT Thermostat are green and press **Save**.

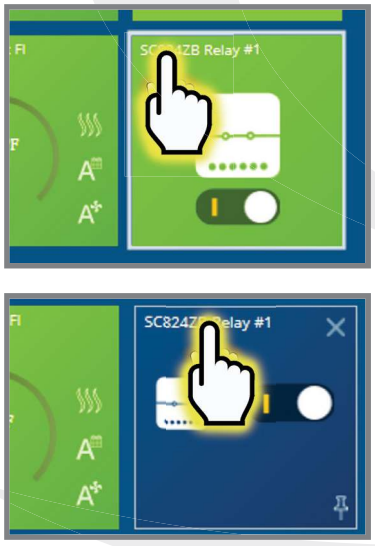
All associated relays will be listed on the AWRT10RF Set up menu and they will be activated when the Thermostat calls for heat.

Local Relay Operation

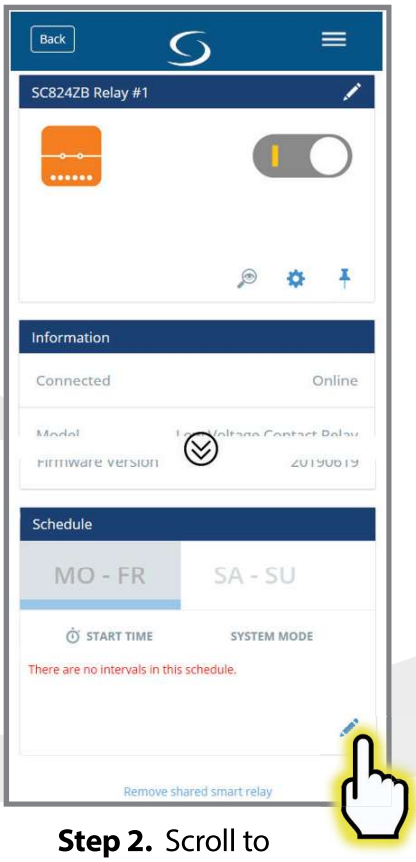


To operate the valve locally, without the SALUS Smart Home app, press and release the Multi-Button.

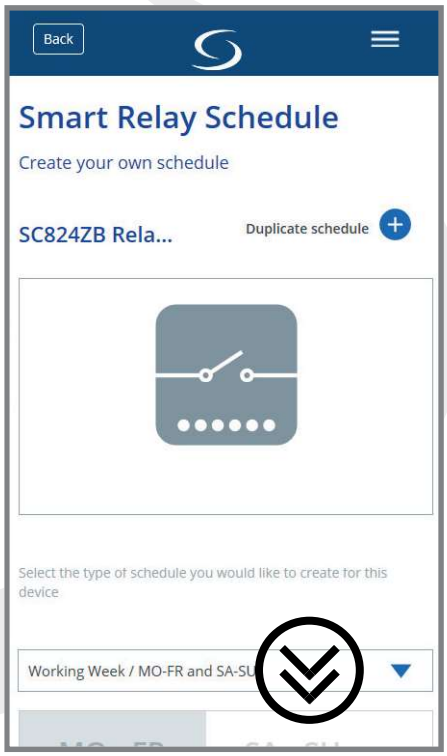
Schedule Setup - SALUS Smart Home Application



Step 1. Select the SC824ZB icon from the SALUS Smart Home dashboard. After the tile flips, choose the device name in the upper left.

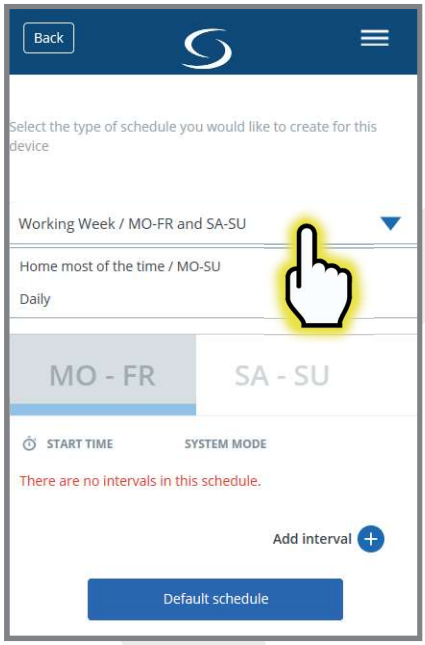


Step 2. Scroll to "Schedule" and choose the icon.

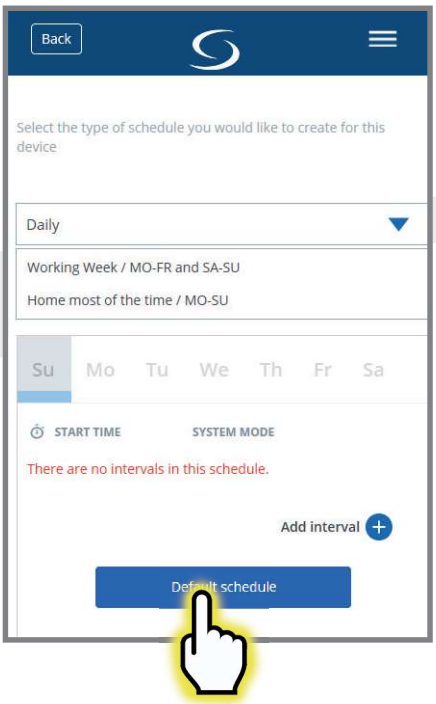


Step 3. Scroll down to view the schedule types.

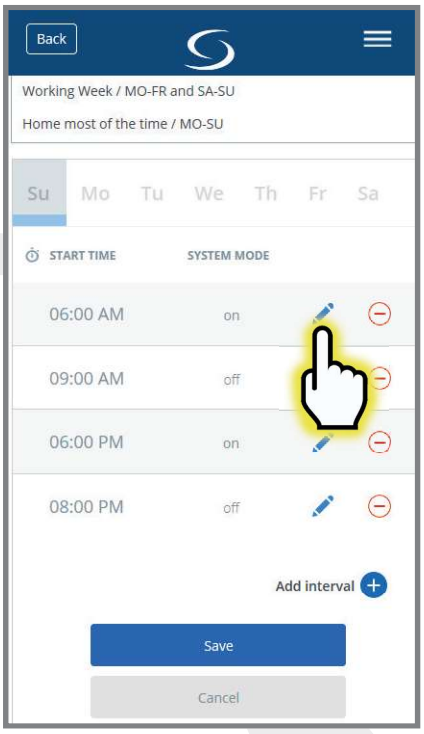
Setup Options



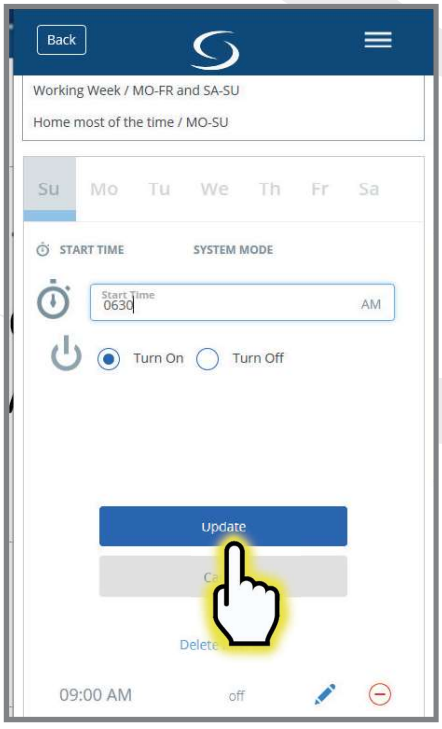
Step 4. Choose the drop-down menu and select the desired schedule type.



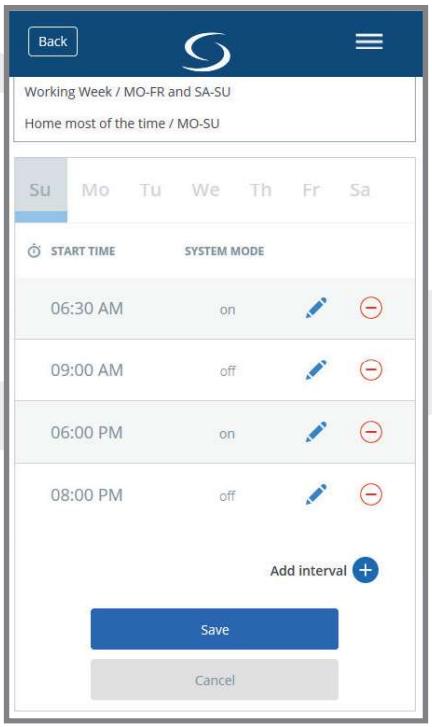
Step 5. Choose "Default schedule" to start with a basic schedule format.



Step 6. Click the icon next to any interval to change values.



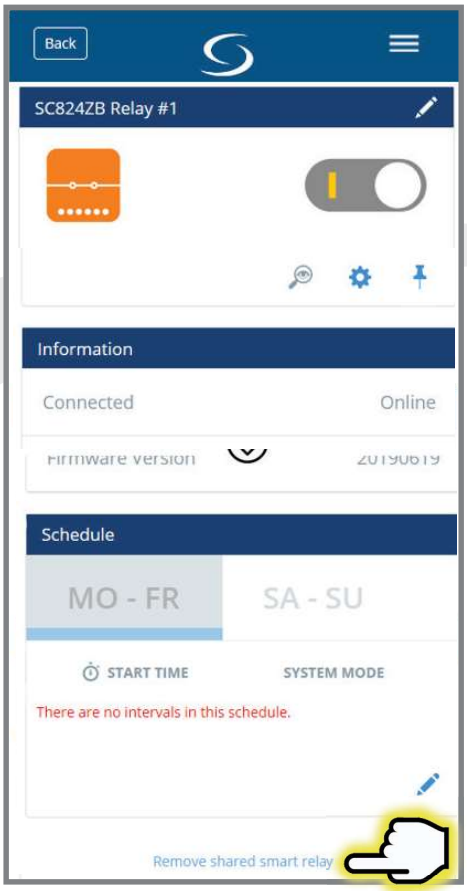
Step 7. Make the desired changes. Then click "Update".



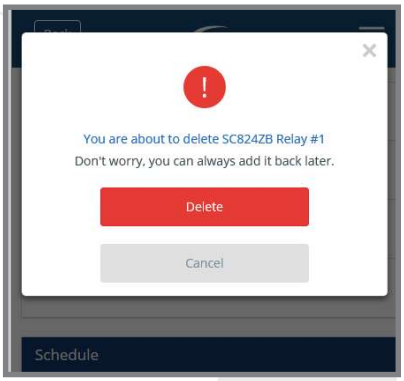
Make further changes as desired. The relay will switch on and off according to the schedule.

Resetting Factory Defaults

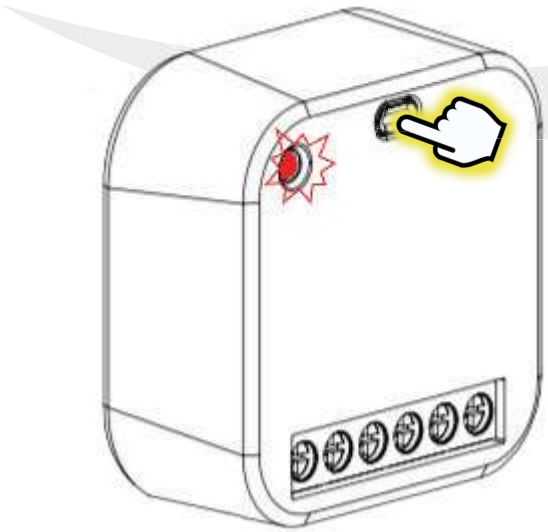
Step 1. Select the SC824ZB icon from the SALUS Smart Home dashboard. After the tile flips, choose the device name in the upper left.



Step 2. Scroll to the bottom of the next screen and select "Remove shared smart relay"



Step 3. Notification that the Sensor will be removed is displayed. Press "Delete" to continue. The SC824ZB Icon will be removed from the application.



Step 4. Press and hold Multi-Button until Status LED turns red. Continue holding the button until the LED begins blinking.

Step 5. Release the button and then briefly disconnect power.

Step 6. Observe the LED and be sure it repeats a sequence of 3 red flashes followed by a pause while it is searching for a network.

At this point, the valve has been reset to factory default settings and will respond to pairing requests.

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