



# Wireless Radiant Thermostat

AWRT10RF



## Quick Start Guide

v 2

For other language versions, please visit [www.salusinc.com](http://www.salusinc.com)

## Introduction

The Wireless Radiant Thermostat (WRT) creates a comfortable room environment by accurately controlling your radiant heat system. Besides the intuitive device interface, you can control the device from anywhere in the world when connected to the Salus Smart Home service via the Basic Gateway (sold separately) and the Salus Smart Home app for iOS and Android smartphones and tablets.

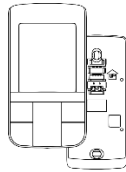
**Notices:** Please read these instructions carefully **before installing and using** the Wireless Radiant Thermostat.

- **Do not** cover any of the vents on the thermostat.
- **Do not** place the unit in a bathroom or area of excessive moisture.
- **Do not** allow the unit to get wet. This device serves as a temperature control system only in dry, closed living and office spaces.
- **Do not** use solvents or aggressive cleaning agents. A dry, soft cloth is recommended.

The manufacturer does not accept responsibility for any damage caused by not following these instructions.

## In the Box

Make sure you have the following items:



Thermostat with Batteries and Wall Mount



Screws and Anchors

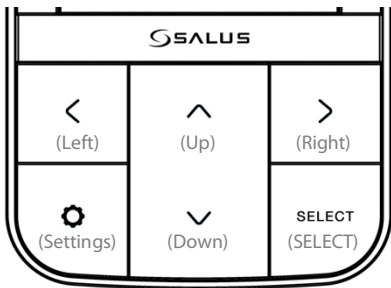


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## Tools Required:

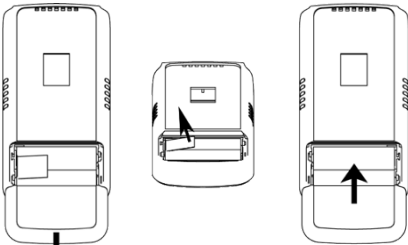
- #1 Phillips or flathead screwdriver
- Drill with 3/16" bit (only if you need to use anchors)

## Keys



### 1. Power Up Device

Open the battery compartment on the back of the remote and pull the battery tab to power up the remote. Replace the batter cover when done.



### 2. Joining and Pairing the Thermostat

After the initial boot up process, the WRT will ask what type of device it will be paired with. Use the ^ (Up) and v (Down) keys to select the device type.

Once the device type is selected, the device will attempt to join a network, and if a network is joined, the device will then attempt to pair with a device of the selected type. Additional selection criteria may be required depending on the device type. Below is a summary of the steps for each device type.

#### Relay Controller

- join network
- scan for relay controller
- **ask for controller and zone to pair with**
- pair with controller and zone
- go to Parameter Setup
- go to home screen

#### Radiator Valve

- join network
- pair with radiator valve actuators looking for thermostats
- go to Parameter Setup
- go to home screen

### Receiver 1 or 2

- join network
- pair with receiver if on network
- go to Parameter Setup
- go to home screen

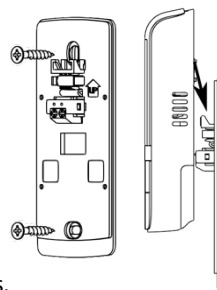
Press the Settings key at any time to cancel the joining or pairing activity and skip straight to the Parameter Setup activity. Change the parameters by pressing ^ or v to change values and SELECT, < or > to move through the parameters. Confirm the changes by pressing Settings to go to the home screen.

Once the parameters have been confirmed, future power ups will skip the Parameter Setup activity. Parameters can be changed by going to the Parameter Setup function in the Settings menu.

### 3. Decide on Location

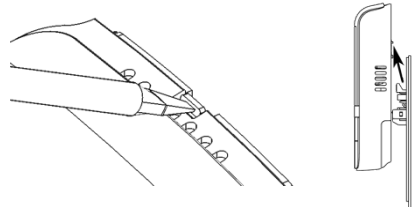
The Wireless Radiant Thermostat can be mounted on a wall so that it is out of the way, or it can be placed in a desk stand (sold separately) to control the temperature at a specific location.

For mounting on a wall, remove the Wall Mount from the back of the remote and attach the Wall Mount to the desired location on the wall using the provided anchors and screws.



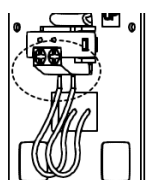
Then slip the thermostat onto the Wall Mount until it latches.

To remove the thermostat from the wall mount, use a small screwdriver to push the latch at the top of the wall mount to release the thermostat. Then lift the thermostat from the wall mount.



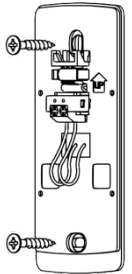
### 4. External Sensor (optional)

If using an external floor or air sensor (sold separately), locate the ends of the sensor wires and insert each end into one of the terminals located on the Wall Mount. Using a Philips



screwdriver, rotate the screws clockwise until the wires are snug.

Then, attach the Wall Mount to the desired location on the wall using the provided anchors and screws, and slip the thermostat onto the Wall Mount.



**NOTE:** The Wireless Radiant Thermostat is intended only for use with 10k NTC Thermistor sensors.

To complete the setup of the thermostat for use with the external sensor, set the following parameters in Parameter Setup as appropriate:

- P15 EXT SENSOR = ON
- P16 XSNSR FNCT = FLR or AIR

If operating as a floor (FLR) sensor, set the following trip points:

- P17 FLOOR TEMP MAX
- P18 FLOOR TEMP MIN

### 5. Normal Operation

After installation and setup is complete, the device will go to the Home Screen. The keys have the following functions on the home screen.

Key	Function
SELECT	No function
SETTINGS	Enter/Exit Settings Mode for the following settings: <ul style="list-style-type: none"> <li>• C/F temperature units selection</li> <li>• Set Clock and Calendar options</li> <li>• Enter Change Schedule mode</li> <li>• Enter Special Functions mode</li> <li>• Initiate Identify mode</li> </ul>
< or >	Move between Heat/Cool and OFF. (Cool is only available when paired with a relay controller and is selected by the relay controller)
^ or v	Enter Set Point Change mode if not OFF
^ and v (hold for 5s)	Lock or Unlock the keys if local locking is enabled.

When in **Set Point Change** mode, the keys have the following functions.

Key	Function
SELECT	Toggle Permanent Hold ON or OFF if schedules (local or remote) are active
SETTINGS	Save changes and go to Home Screen
< or >	View schedule periods if schedule is local
^ or v	Increase or decrease the set point for the selected heat/cool mode

## 6. Settings

The device has the following user selectable settings.

Setting	Function
S 01	DEGREE UNITS Display temperatures in Celsius for Fahrenheit
S 03	CLOCK FORMAT Set 12- or 24-hour clock format
*S 04	DST Set Daylight Savings Time active or not
*S 05	MONTH Set current month
*S 06	DATE Set current date
*S 07	YEAR Set current year
*S 08	TIME - HOUR Set current hour
*S 09	TIME - MINUTE Set current minute
*S 10	CHNG SCHDL Change internal schedules
S 11	SPCL FUNCTIONS Special Functions (see below)
S 12	IDENTIFY - CHNL Initiate Zigbee Identify mode

\* These setting are not visible when the device is connected to a cloud service since the service provides the date, time and schedules.

The keys have the following functions in Settings mode.

Key	Function
SELECT	Save changes and move to next/previous setting (long press for previous)
SETTINGS	Save changes and go to Home Screen
<	Save changes and move to previous setting
>	Save changes and move to next setting
^	Toggle or increase the setting value for the setting
v	Toggle or decrease the setting value for the setting

## 7. Special Functions

The device can perform additional functions for certain situations. To access the functions, press the SETTINGS key and go to S11, SPECIAL FUNCTIONS.



Enter the code for the desired function from the table below, using the ^ and v keys, and press SELECT.

Code	Function
22	<b>Leave Network:</b> Leave current network after confirmation and look for a new network WITHOUT resetting other parameters. Typically used for replacing gateways.
49	<b>Parameter Setup:</b> Enters the parameter modification mode to configure the device.
86	<b>Factory Reset:</b> Restores all parameters to factory default values and reboots. The device will ask for confirmation to restore factory defaults.
99	<b>Rejoin Network:</b> Rejoin the current network. Typically used to add a repeater to the network.

When functions are not confirmed, or there is no input within 3 minutes, the device will return to the Home Screen.

## 8. Parameter List

Following are the available parameters in the device. For operating details, see the User Manual.

Param	Function
P01	Paired Device Type
P02	Internal Schedule Active
P03	Temperature Control Method
P04	TPI Minimum Turn Off Time
P08	Temperature Offset for current temperature sensor
P09	Frost Protection
P10	Maximum Set Point for both Heat and Cool Mode
P11	Minimum Set Point for both Heat and Cool Mode
P15	External Sensor Enable
P16	External Sensor Function
P17	Maximum Floor Temp for Heat mode
P18	Minimum Floor Temp for Heat and Cool mode
P19	Radiator Actuator Control
P21	Valve Protection
P25	Key Lock Source
P26	Set point change when keys locked

## FCC and Industry Canada

### FCC

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC AND INDUSTRY CANADA

RF Radiation Exposure statement: This equipment complies with FCC and Industry Canada RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the antenna and all persons.

Cet appareil est conforme aux limites d'exposition au rayonnement FR du FCC et d'Industrie Canada pour un environnement non contrôlé. Cet appareil devrait être installé et devrait fonctionner de sorte qu'il se trouve à une distance d'au moins 20 cm entre l'antenne et toute personne.

### INDUSTRY CANADA

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Warranty

SALUS North America, Inc. ("Salus") warrants that for a period of five (5) years ("Warranty Period") from the date of purchase by the consumer ("Customer"), this device, excluding batteries ("Product"), shall be free of defects in materials and workmanship under normal use and service in accordance with all supplied instructions. During the warranty period, Salus shall, at its option, repair or replace any defective Products, at no charge for the device. Any replacement and/or repaired devices are warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer.

This warranty does not cover removal or reinstallation costs. This warranty does not apply to any Product (i) which has been modified, repaired, or altered, except by Salus or an authorized Salus representative, (ii) which has not been maintained in accordance with any handling or operating instructions supplied by Salus, or (iii) which has been subjected to unusual physical or electrical stress, misuses, abuse, negligence or accidents.

This warranty is the only express warranty Salus makes for the Product. Any implied warranties, including warranties of merchantability or fitness for a particular purpose, are limited to the Warranty Period or the shortest period allowed by law.

SALUS SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the duration of implied warranties of merchantability or fitness, so these exclusions or limitations may not apply to you.

No oral or written information or advice given by Salus or a Salus-authorized representative shall modify or extend this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

Customer's sole and exclusive remedy under this limited warranty is product repair or replacement as provided herein. If a Product under warranty is defective, the Customer may:

- contact the party ("Seller") from which the Customer purchased the Product to obtain an equivalent replacement product after the Seller has determined that the Product is defective and the Customer is eligible for a replacement, or
- contact Salus Service at support@salusinc.com, to determine whether the device qualifies for a replacement. If a replacement is warranted and is shipped prior to the return of the device under warranty, a credit card is required and a hold may be placed on the Customer's credit card for the value of the replacement until the returned device is verified as eligible for replacement, in which case, the Customer's credit card will not be charged.

This warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction. If you have any questions regarding this warranty, please write Salus at:

SALUS North America, Inc.  
850 Main Street  
Redwood City, CA 94063