

Model: RT310 (Digital room thermostat)

RT310RF (Digital room wireless thermostat)

TPI



Installation Manual

Introduction

RT310 / RT310RF is a digital room thermostat used to control room temperature. Device launching heating or cooling system by shorting terminal blocks, simultaneously informing the action and showing this information on the LCD display. Before use please read this manual carefully. Use only AA 1.5 V alkaline batteries in the thermostat. Place the batteries into the battery slot located under the cover. Do not use rechargeable batteries.

Product compliance

Directives: EMC 2014/30/EU, LVD 2014/35/EU, RED 2014/53/EU and RoHS 2011/65/EU. Full information is available on the website www.saluslegal.com



Safety Information

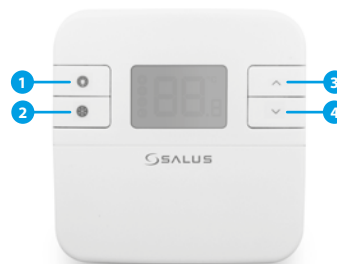
Use in accordance to national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations.

Technical specification

	RT310	RT310RF
Thermostat supply	2 x AA alkaline batteries	2 x AA alkaline batteries
Receiver supply	-	230 V AC
Thermostat rating max	3 (1) A	-
Receiver rating max	-	16 (5) A
Outputs	Voltage free NO / COM / NC terminals	Voltage free NO / COM terminals
Temperature range	5 - 35°C	5 - 35°C

Button functions

RT310 / RT310TX Thermostat



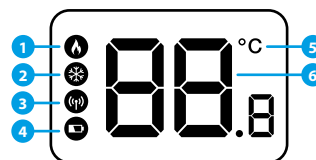
1. Turn on the LCD backlight
2. HEAT/COOL modes change or Frost Protection mode activation
3. Increase button
4. Decrease button

RXRT510 Receiver



5. When in Manual Mode, ON will turn the boiler on
6. When in Manual Mode, OFF will turn the boiler of
7. Receiver operates in automatic mode according to the thermostat
8. Receiver output is controlled by the On/Off slide switch.

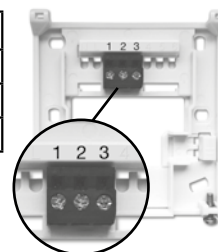
LCD Icon description



1. Heating Mode ON
2. Cooling Mode ON/
Frost Protection Mode ON
3. RF signal indicator (only in RT310RF)
4. Low battery status
5. Temperature unit
6. Room / setpoint temperature

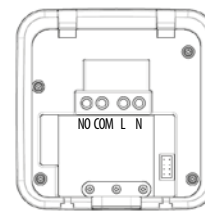
RT310 Terminals description

Terminal	Description
1 - COM	Common Terminal
2 - NC	Switched Live OFF
3 - NO	Switched Live ON



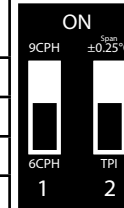
RXRT510 Receiver terminals description

Terminal	Description
NO	Switch Terminal
COM	Common Switch Terminal
L, N	Supply (230 V AC)

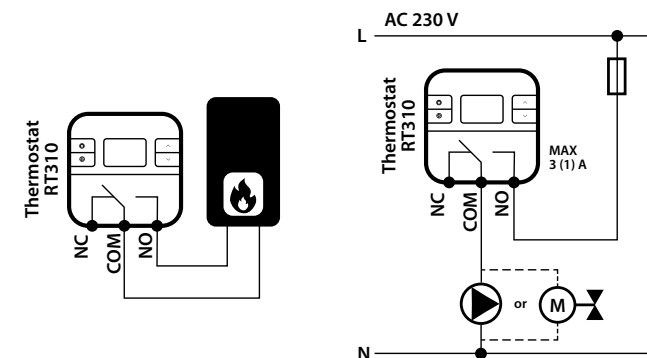


DIP switches parameters

1	2	Cooling	Heating	Default value
ON	ON	Hysteresis +/- 0.25 °C	Hysteresis +/- 0.25 °C	
ON	ON	Hysteresis +/- 1.5 °C	Hysteresis +/- 0.5 °C	
ON	OFF	Hysteresis +/- 1.0 °C	TPI 9 CPH	
OFF	OFF	Hysteresis +/- 0.5 °C	TPI 6 CPH	✓



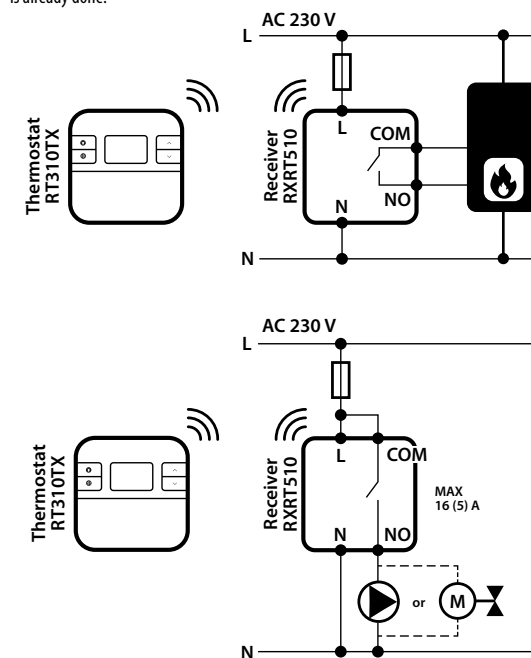
RT310 Wiring diagram



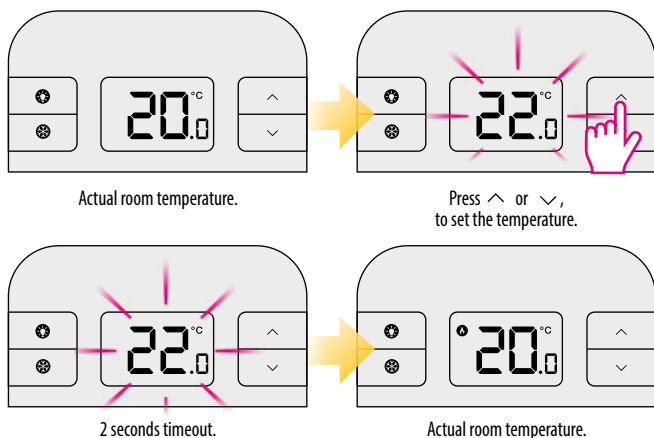
RT310RF Wiring diagram



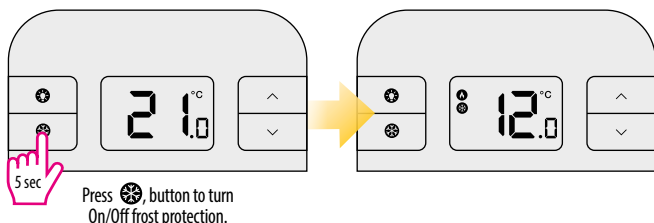
Note: If you are using the RT310RF pack, the pairing between the thermostat and the receiver is already done!



Change the Setpoint temperature



Frost Protection

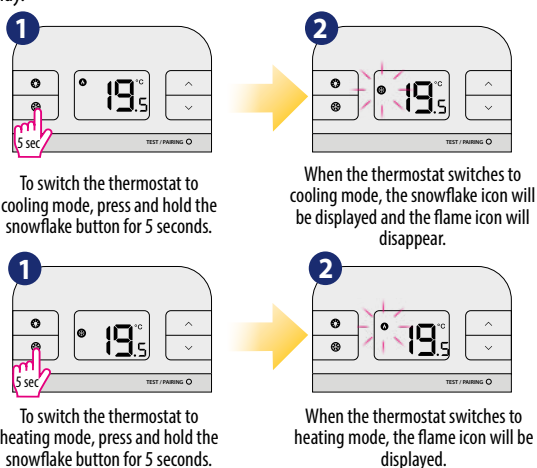


i The Frostpoint temperature can be reviewed by pressing the UP button once, \wedge but can only be changed in Installer Mode.

Heat / Cool mode selection*

The user can change the heating and cooling mode.

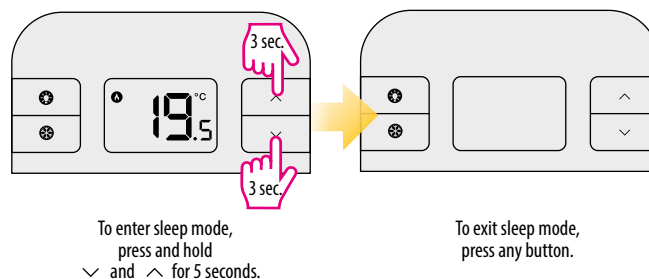
NOTE: In cooling mode, the thermostat reports a cooling demand with a 3-minute delay.



* Function available from software version v2.1.

Sleep Mode

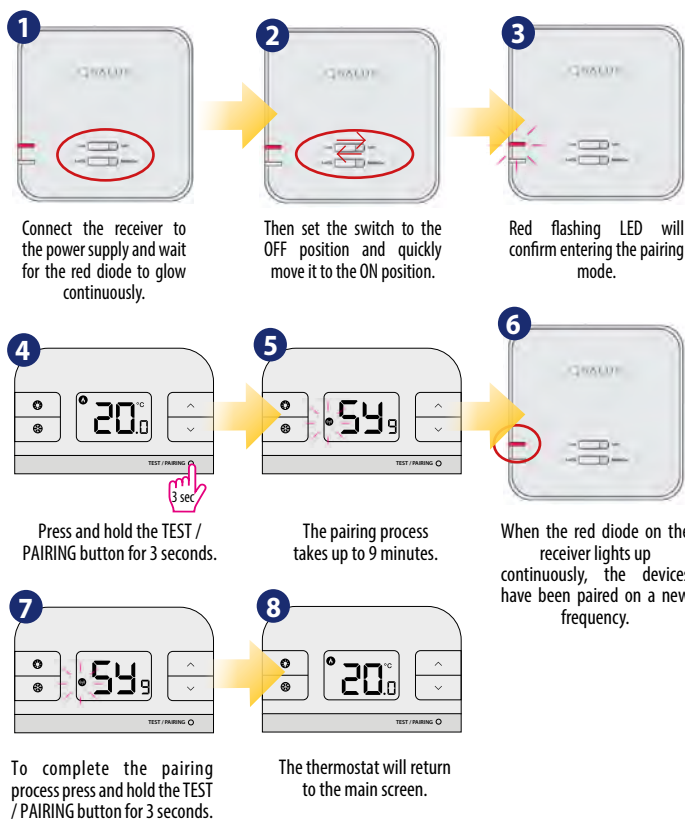
i When Sleep Mode is active all the thermostat functions will be paused.



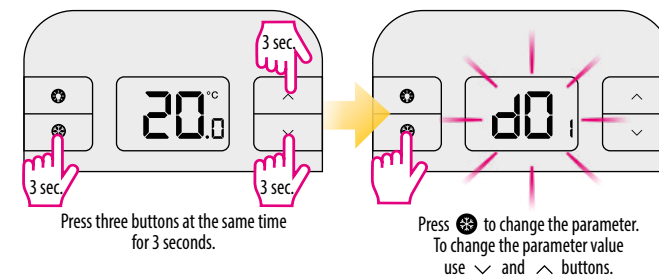
Pairing the RT310TX thermostat with the RXRT510 receiver

NOTE: IN THE RT310RF SET, THE THERMOSTAT IS FACTORY PAIRED WITH THE RECEIVER!

i If you want to pair the thermostat with the receiver again, make sure that the device is disconnected from the power supply and the switches on the receiver are in the AUTO and ON positions.

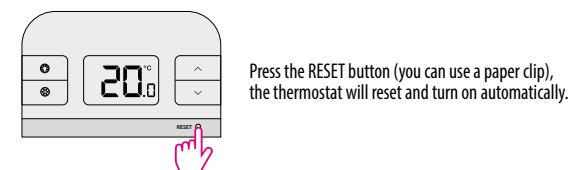


Installer Mode



dxx	Function	Parameter value	Default value
d01	Temperature display increments	0.1°C or 0.5°C	0.5°C
d02	Temperature offset	+/- 3.0°C	0.0°C
d03	Frost Protection setpoint temperature	5.0°C - 17.0°C	5.0°C

Reset of the RT310 thermostat



RT310TX thermostat reset

Remove the batteries without pressing any button. Wait 2 minutes and insert the batteries again. Your device will be restarted.

i When you want to change the batteries your device will use the internal memory to backup your settings. You have 30 seconds to change the batteries before losing your settings.

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