

RT310, RT310TX, RT310RF
(with Heating/Cooling mode)



MULTILANGUAGE
MANUAL



Quick Guide

Please note important changes on Page 2!

Introduction

RT310 / RT310TX / RT310RF is a digital room thermostat used to control room temperature. Device launching heating 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

This product complies with the essential requirements and other relevant provisions of the following EU Directives: GPRS 2023/988/EU, EMC 2014/30/EU, LVD 2014/35/EU, RED 2025/138/EU, RoHS 2017/2102/EU amending 2015/863/EU and REACH 251 SVHC 1907/2006. Full text of the EU Declaration of Conformity is available on www.saluslegal.com

(CE) 868.0-868.6MHz; <13dBm

Safety information

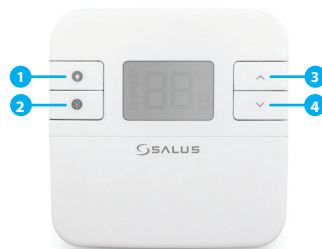
Use in accordance to national and EU regulations. Use the device as intended, keeping it in dry condition. Product for indoor use only. Installation must be carried out by a qualified person in accordance to national and EU regulations.

Technical specifications

	RT310	RT310TX
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	-	6 (5) A
Outputs	Voltage-free NO / COM / NC terminals	Voltage-free NO / COM terminals
Temperature range	5 - 35°C	5 - 35°C

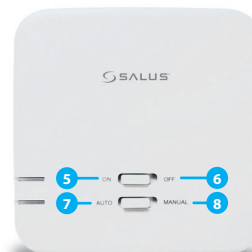
Button functions

RT310 / RT310TX Thermostat



1. Turn on the LCD backlight
2. Switch Heating/Cooling mode, turn on/off Frost in Heating mode
3. Increase button
4. Decrease button

RXRT510 Receiver



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

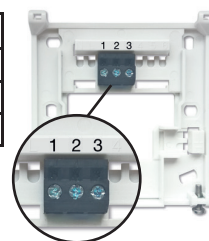
LCD icons description



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

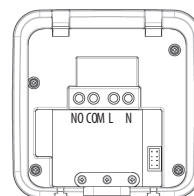
RT310 terminals description

TERMINAL	DESCRIPTION
1 - COM	Common terminal
2 - NC	Switched Live OFF
3 - NO	Switched Live ON



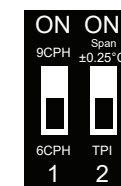
RXRT510 terminals description

TERMINAL	DESCRIPTION
NO	Switch terminal
COM	Common switch terminal
L, N	Power supply (230V AC)



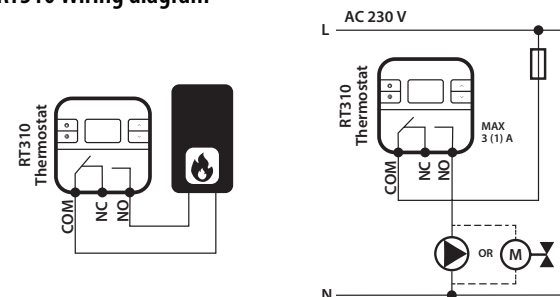
DIP Switch Settings

The DIP Switches can be found on the rear of your thermostat.



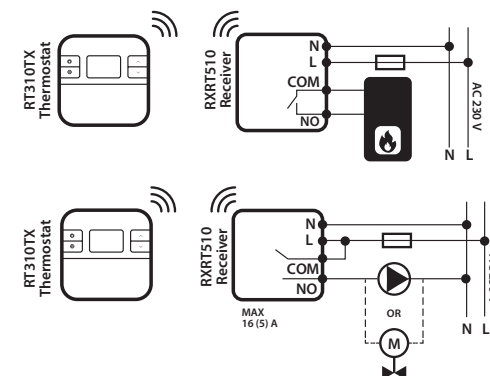
Control feature	TPI	SPAN
Operation	When TPI is selected on DIP switch No 2, the DIP switch No 1 is functional. You can choose the Cycles Per Hour between a lower comfort level (6CPH) and a higher comfort level (9CPH).	When Span is selected on DIP switch No 2, the DIP switch No 1 is not functional. The temperature accuracy of your thermostat is set to $\pm 0.25^\circ\text{C}$.

RT310 Wiring diagram

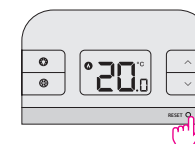


RT310RF Wiring diagram

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

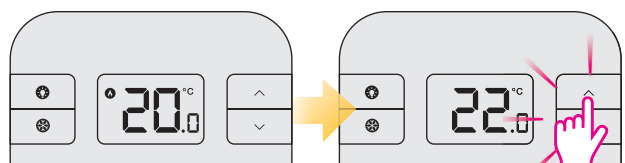


Reset of the RT310 thermostat



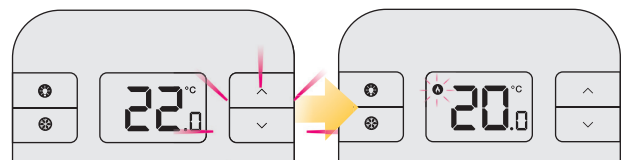
Press the RESET button once. You can use a paper clip. Your thermostat will be reset and will start up automatically.

Change the setpoint temperature (heating mode)



Actual room temperature.

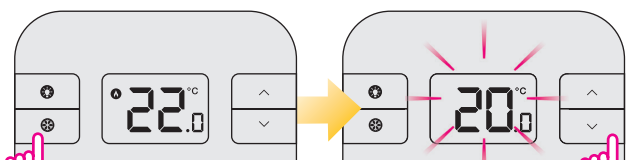
Press $\wedge$ or $\vee$ to set the temperature.



2 seconds timeout.

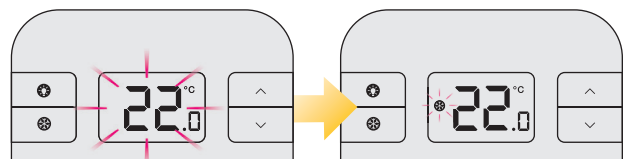
The heating icon will start blinking. Thermostat will show actual room temperature.

Change the setpoint temperature (cooling mode)



5 sec
Long press 5 seconds to choose cooling mode.

Press $\wedge$ or $\vee$ to set the temperature.

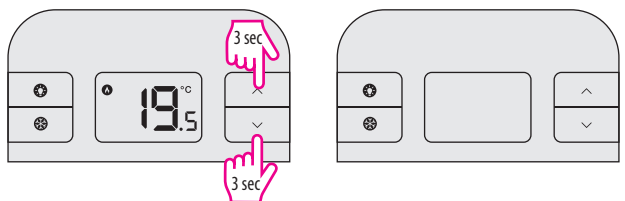


2 seconds timeout.

The cooling icon will start blinking. Thermostat will show actual room temperature.

Sleep mode

i When Sleep mode is active, all the thermostat functions will be paused. Press any button to stop the Sleep mode.

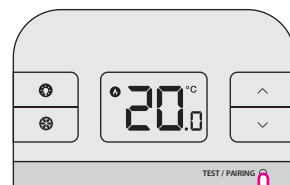


Pairing with the RT310TX with the receiver

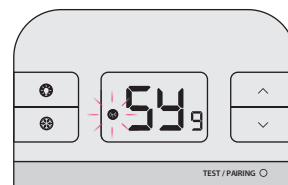
⚠ Note: If you are using the RT310RF pack, the pairing between the thermostat and the receiver is already done.

i If you bought the RT310TX and RXRT510 separately or if you want to re-pair thermostat with the receiver, make sure that the device is disconnected from the power supply and the switches on the receiver have been set to AUTO and ON. Then connect the receiver to the power supply and wait for the red LED to light steadily. Then switch to the OFF position and again to ON position quickly. The red flashing LED will confirm entering the pairing mode.

Begin the pairing process

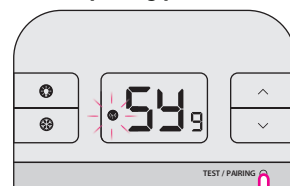


Press and hold the TEST / PAIRING button for 3 seconds.

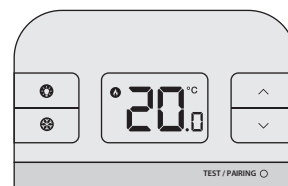


Pairing process can take up to 9 minutes.

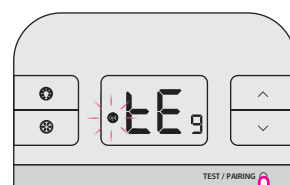
End the pairing process



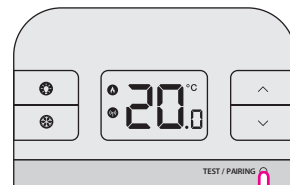
Once the devices are successfully paired, LEDs on the receiver will go solid red. Press and hold the TEST / PAIRING button for 3 seconds to end the pairing process.



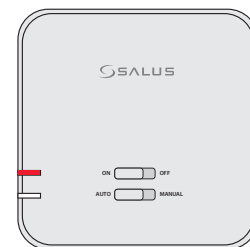
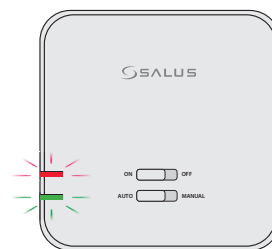
Test the pairing process



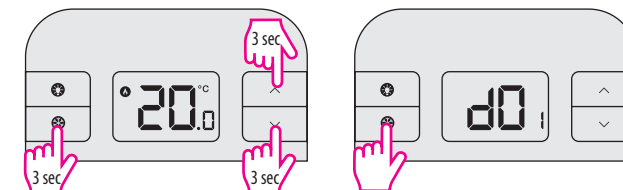
Press the TEST / PAIRING button to check the connection with the receiver.



Press the TEST / PAIRING button to return to the main screen.



Installer mode



Press all three buttons at the same time for 3 seconds.

dx	Function	Parameter	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

IMPORTANT CHANGES

Please note the following UI/UX improvements:

- The thermostat is in heating mode (no demand)
- The thermostat is in heating mode and there is demand.
- The thermostat is in frost mode.
- The thermostat is in cooling mode (no demand).
- The thermostat is in cooling mode and there is demand.

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