

Introduction

Issue Date: July 2019 V033

RT510+ / RT510TX+ / RT510RF+ is a programmable 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. Extended features allows us to use various operating modes - automatic (time schedules), manual, frost protection or holiday. 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: EMC 2014/30/EU, LVD 2014/35/EU, RED 2014/53/EU and RoHS 2011/65/EU. Full text of the EU Declaration of Conformity is available on www.salus-controls.com/uk

((**Q**)) 868.0-868.6MHz; <13dBm

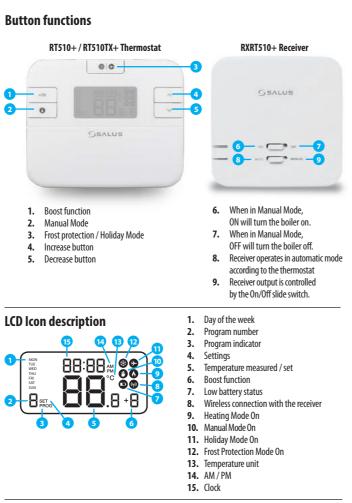
A Safety Information

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

	RT510+ Thermostat	RT510TX+ Thermostat
Thermostat supply	2 x AA alkaline batteries	2 x AA alkaline batteries
Thermostat rating max	3 (1) A	-
Outputs	Voltage free NO / COM / NC terminals	-
Temperature range	5 - 35°C	5 - 35°C
Temperature accuracy	0.1°C or 0.5°C	0.1°C or 0.5°C
Control algorithm	ITLC / SPAN	ITLC / SPAN
Radio frequency	-	868 MHz
Dimension [mm]	120x96x27	120x96x27

RXRT510 Receiver		
Receiver supply	230 V AC	
Receiver rating max	16 (5) A	
Outputs	Voltage free NO / COM terminals	
Radio frequency	868 MHz	
Dimension [mm]	96x96x27	



RT510+ Terminals description

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

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RT510+ (Thermostat) Dip Switch Settings

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

ON ON		ITLC	SPAN
RAD ITLC 1 2	Operation	ITLC Internal Temperature Load Compensation for improved efficiency.	When Span is selected on DIP switch № 2, the DIP switch № 1 is not functional.

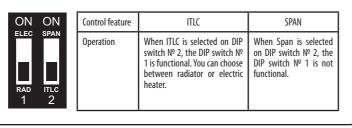
RXRT510 Receiver terminals description

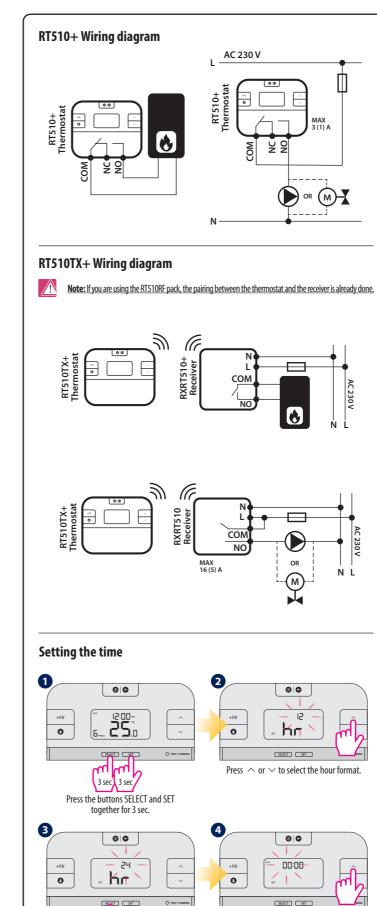
Terminal	Description	•
NO	Switch Terminal	
СОМ	Common Switch Terminal	
L, N	Supply (230 V AC)	

RT510TX+ & RT510RF (Thermostat) DIP Switch Settings

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

For all plug-in boiler receiver applications ensure SW1 is set to RAD.



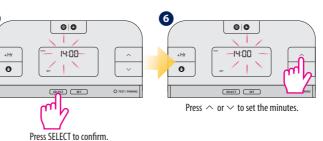


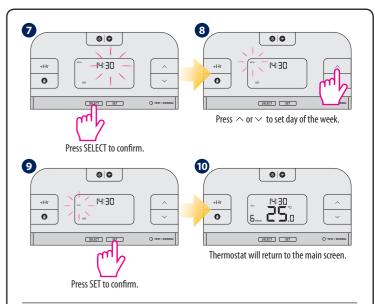
Press \land or \lor to set the hour.



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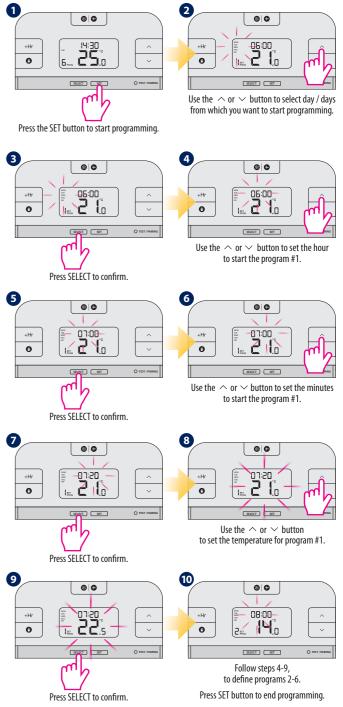
mb





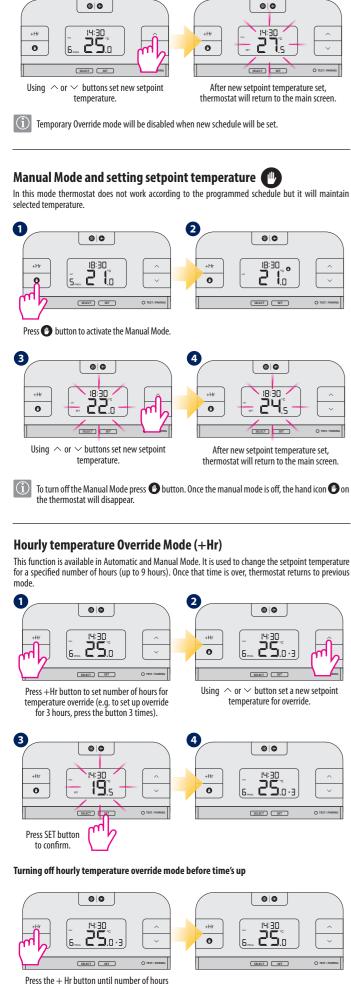
Programming - automatic mode

In this mode, user can set the schedules for thermostat (temperature setpoints for specific periods of time). To do this, firstly choose programming mode: "5-2" (business days + weekend) or "24h" (each day separately) using parameter **d04** from **Installer mode**. Programmed schedules should use all time periods.



Temporary Override Mode

This function is available only in automatic mode (schedule). If a new setpoint temperature will be set during the schedule - it will be maintained until next time interval starts according to programmed schedule



Frost Protection 🛞 (1) Temperature of the Frost Protection mode is set as default at 5°C. This temperature can be changed in Installer Mode in d03 parameter. 00 6 0 13:20 • +Hr +Hr 20. 0 0 SELECT SET SELECT SET Press button 🛞 🕞 to turn On Frost Protection mode Turning Off the Frost Protection Mode 00 0 0 13:20 200° 0.055 +Hr +Hr 0 0 SELECT SET SELECT SET Press button 🛞 🕑 again to turn Off Frost Pro Sleep mode 00 00 +Hr 18:30 +Hr Ž 0 **i**.o 0 15. SELECT SET SELECT SET Thermostat is in sleep mode. Hold \wedge and \vee buttons simultaneously for 3 seconds to start the sleep mode. When the sleep mode is activated, all thermostat functions are paused. 00 00 18:30 2 { +Hr +Hr 0 0 **i**.o L SELECT SET SELECT SET Press any key to deactivate sleep mode. Thermostat will return to the previous mode Holiday Mode 🕞 In this mode the "frost protection" temperature is maintained for a specific number of days. 0 2 0,0 0 - 20°0 3 sec 0 ั ธีป.อ. 0 SELECT SET O TEST SELECT SET Hold down 🛞 🕑 button for 3 seconds Use \land or \lor button to set the number to activate the Holidav Mode of days for Holiday Mode. B 4 00 00 ан 197 197 о.<mark>005</mark> +Hr 0 0 SELECT SET SELECT SET mb

Press SET button to confirm

You can set up to 31 days

disappear from the display.

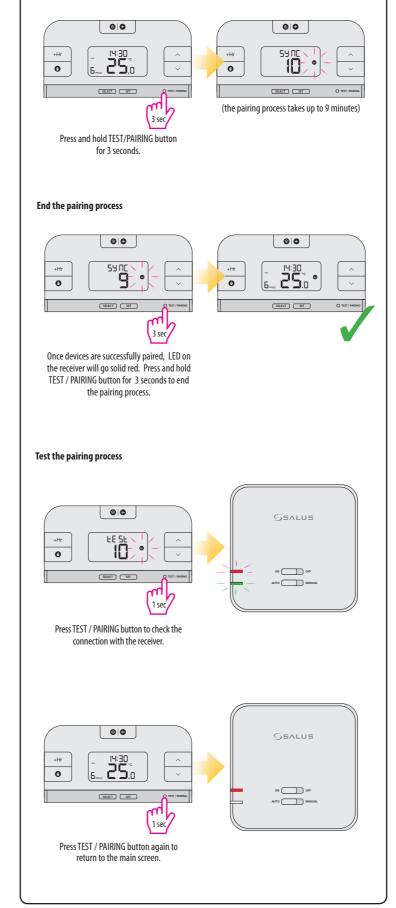
🚺 To turn off the Holiday Mode, hold down 🛞 😥 button for 3 seconds. The airplane icon 🔗 should

RT510TX thermostat pairing with the receiver

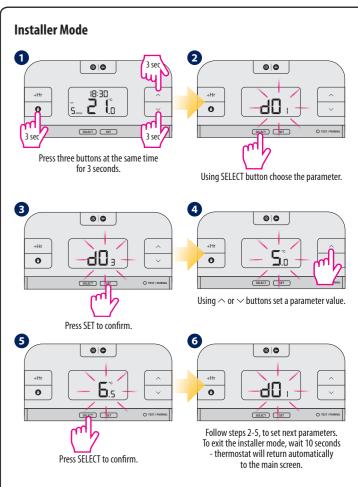
Note: If you are using the RT510RF+ pack, the pairing between the thermostat and the receiver is already done

(i) If you bought the RT510TX+ 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



disappears from display.



dxx	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
d04	Programmer selection	5/2 or 24 hr (7d)	52d

Reset of the RT510+ thermostat



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

Reset of the RT510TX+ thermostat



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

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.

NOTE:

If you do not notice the "low battery" symbol displayed on the screen in time, it will shut down. In this case, after removing the old batteries, it is necessary to wait 5 minutes before inserting the new batteries. Otherwise, it is possible that a condenser will remain partially discharged and it can prevent the thermostat from restarting.