SALUS
CONTROLS®

RT510LG5V+

Boiler PLUS COMPLIANT

ITLC Internal Temperature Load Compensation

Quick Guide

Introduction

The RT510LG5V+ thermostat will switch your heating system on or off, as needed, in accordance with the time and temperature set by you. It can be used with the LG+5V integral plug-in RF boiler module. The LG+5V boiler module 868MHz is a receiver with 5V DC to control ON/OFF of Boiler or other heat system via the RF signal transmitted from the thermostat.

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.saluslegal.com

868.0-868.6MHz; <13dBm

Safety Information

Use in accordance with the regulations. Indoor use only. Keep your device completely dry. Disconnect your device before cleaning it with a dry cloth. This accessory must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the city, country or state where the product is installed. Failure to comply with the relevant standards could lead to prosecution.
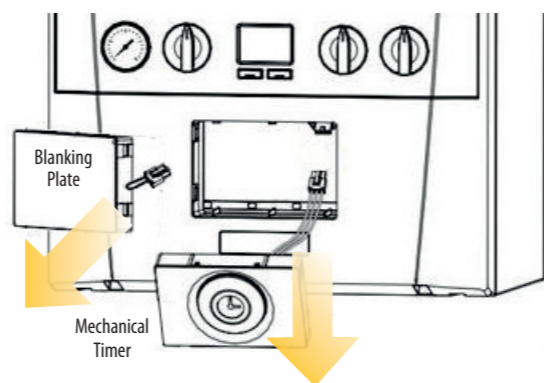
⚠ Always isolate the AC Mains supply before installing or working on any components that require 230 VAC 50Hz supply.
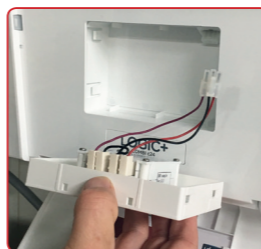

Box content

RT510LG5V+	Desk Stand	LG+5V
Quick Guide	2 x AA Alkaline Batteries	2 x Fixing Screws

LG+5V Installation

Blanking Plate

Mechanical Timer

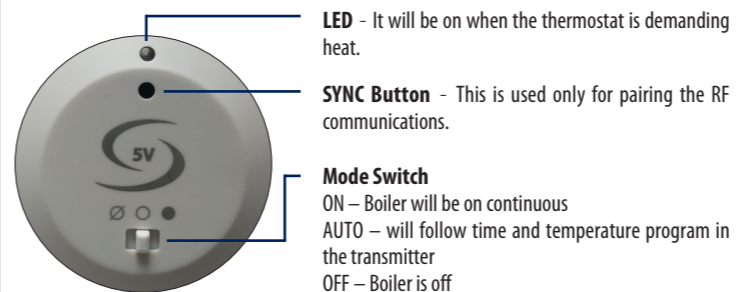ℹ When removing blanking plate, also remove visible thermostat link plug, do not remove any internal link.

1. Ensure boiler is isolated and switched off.
2. Pull down control panel cover.
3. Remove existing mechanical timer / blanking plate and unscrew from plate.
4. Reverse the procedure to install the LG+5V.
5. Connect the electrical plug.
6. Push fit boiler control into housing.
7. The LG+5V is ready to be paired with your thermostat.

LG+5V User Controls

LED - It will be on when the thermostat is demanding heat.

SYNC Button - This is used only for pairing the RF communications.

Mode Switch
ON – Boiler will be on continuous
AUTO – will follow time and temperature program in the transmitter
OFF – Boiler is off

LG+5V Switch Position

1. The boiler receiver is **OFF**. When in this mode, the boiler will not receive a signal from the RF thermostat.

2. **AUTO**. RX will automatically receive the RF signal from your compatible SALUS device and control the module output so that it switches the boiler accordingly.

3. **MANUAL** mode - Manual Override. When in this mode, the boiler will be always turned on and the LED indicator will also be lit constantly.

① ② ③
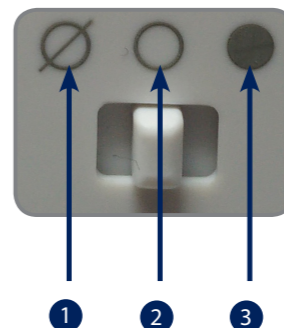
RT510LG5V+ (Thermostat) Button Functions

| Key	Function
❄ / ✈	1. Press once to activate Frost Mode 2. Press for 3 seconds in order to activate Holiday Mode
+Hr	Press once to activate/deactivate Boost function
✋	Press once to enter/exit Permanent Override function
∧	Increase button
∨	Decrease button
SELECT	Select the clock or programme settings
SET	Press to confirm your settings
○	1. Press once to enter/exit in Test Mode 2. Press for 3 seconds to enter/exit Pairing Mode
✋ + ∧ + ∨	Press the buttons for 3 seconds to enter Installer Mode
SELECT + SET	Press the buttons for 3 seconds to enter Clock Settings

RT510LG5V+ (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.

ON	ON
NA	SPAN
RAD 1	ITLC 2

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

Test the Pairing Process

ℹ During test pairing, boiler control should flash confirming pair. If not, please follow Pairing Process.
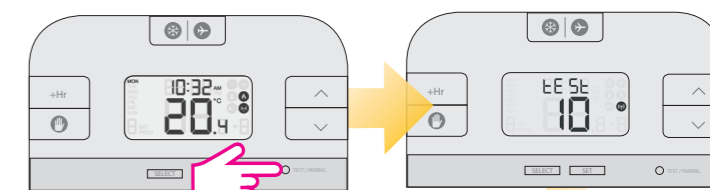
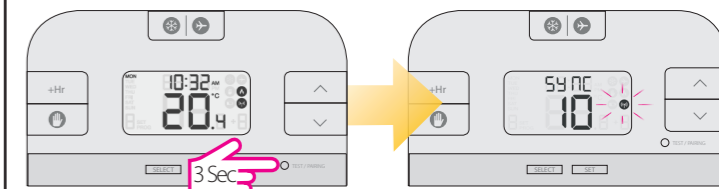ℹ When enter test pairing mode, after a 10 minute countdown the thermostat will time out.

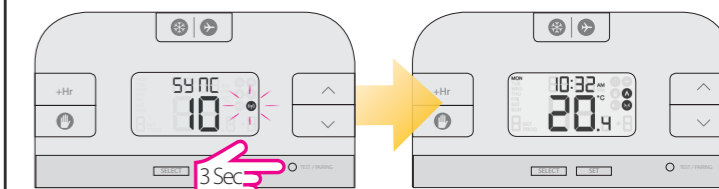The LED will start flashing red.

Pairing Process

1. Press the SYNC button for 3 seconds until LED starts flashing.

2. The LG+5V is ready to be paired with your thermostat.

3 Sec

3. Begin the pairing process
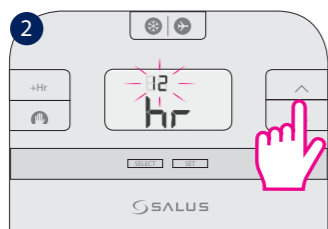
3 Sec

4. End the pairing process

3 Sec

Once the LED stops flashing, press the TEST / PAIRING button for 3 sec.

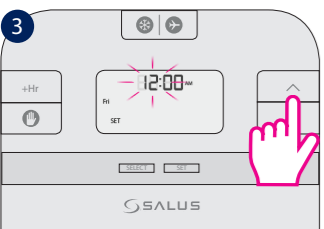ℹ Once paired please close the boiler control panel.
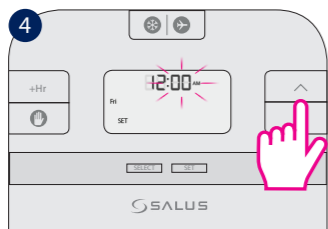
Setting Time and Date

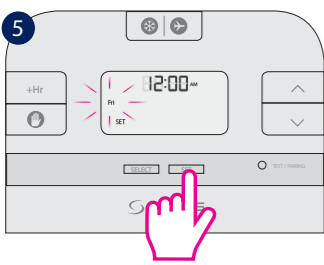**1** Press the buttons together for 3 sec.

2 Press UP or DOWN to select the hour format and then press SELECT to confirm your option.
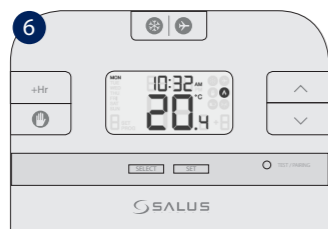
3 Press UP or DOWN to select the hour and then press SELECT to confirm your option.

4 Press UP or DOWN to select the minutes and then press SELECT to confirm your option.

5 Press SET to return to the Main Screen.

**6** Continue with the same steps for setting the Day.

Programming

You can create personalized programmes for your controller. You have the option to choose between a 5-2 days programme or a daily one by using the parameter d04 from Installer mode.

5-2 Days Programme	24h Programme
Weekdays 6 sets of time/channel Weekends 6 sets of time/channel	24h 6 sets of time/channel
Total: 12 settings/week	**Total: 42 settings/week**
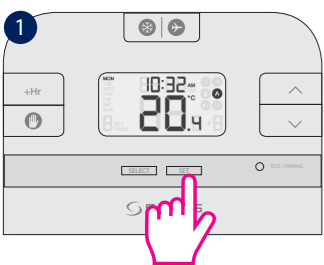
1 Press SET to change your programmes.
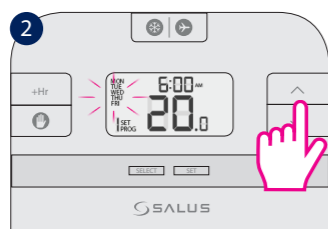
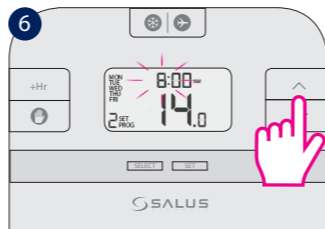**2** Press UP or DOWN to select Weekday/Weekend/Day and press SELECT.
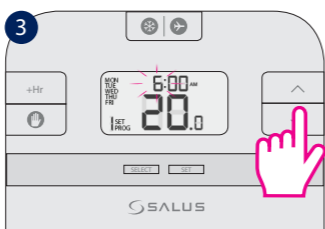
3 Press UP or DOWN to set the hour and press SELECT to confirm your option.
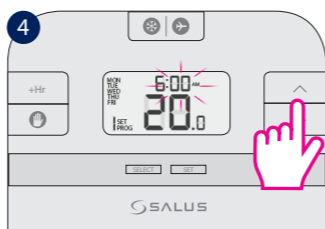
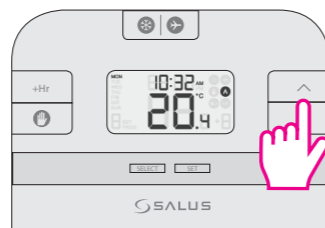**4** Press UP or DOWN to set the minutes and press SELECT to confirm your option.
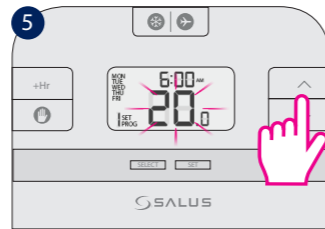
5 Press UP or DOWN to set the temperature and press SELECT to confirm your option.
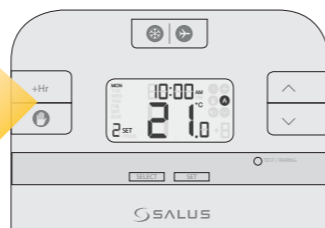
6 Follow the same procedure for the next set of time.

ℹ️ After you have done all the changes, please press SET to confirm all your choices and to return to the Main Screen.

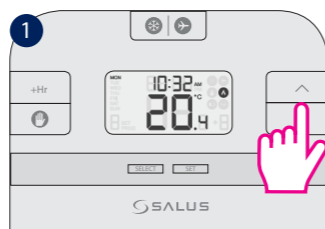## Review the Setpoint (desired) temperature
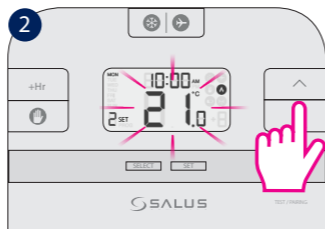
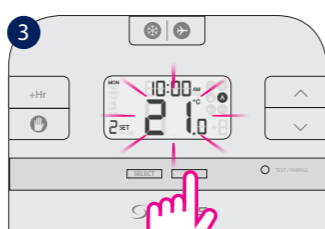Actual room temperature → Setpoint (desired) temperature
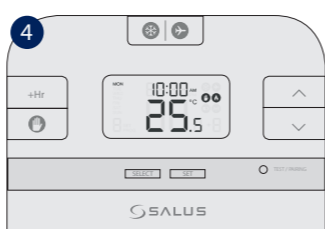

Temporary Override

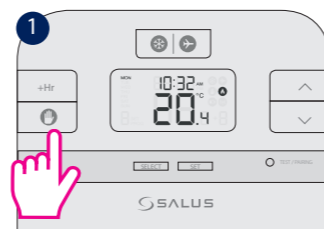**1** Press UP or DOWN to review the setpoint temperature.

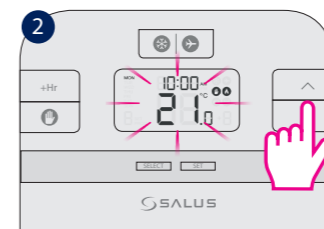**2** Press UP or DOWN to set the temperature.

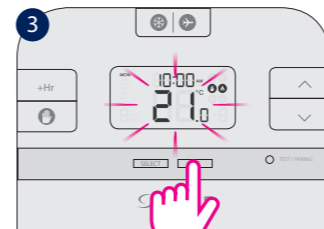**3** Press SET to confirm the changes.
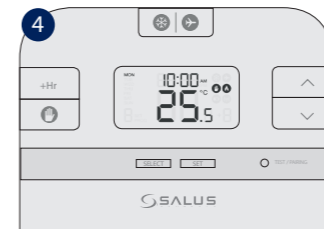

Permanent Override

1 Press OVERRIDE in order to activate the mode.
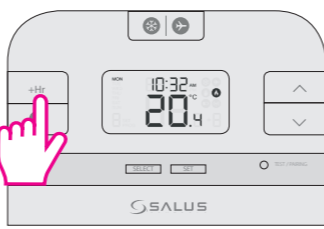
2 Press UP or DOWN to set the temperature.

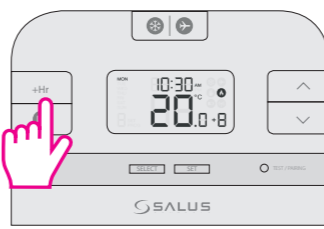**3** Press SET to confirm the changes.

4 The Override sign will appear on the Main screen.
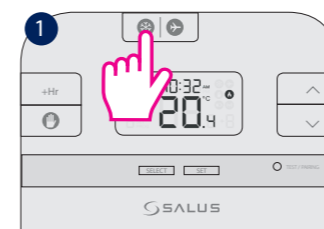

Boost function

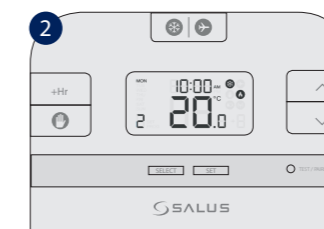Press +Hr to activate the Boost function.

Press +Hr to set boost hours and then press UP or DOWN to set the boost temperature for your boost period.
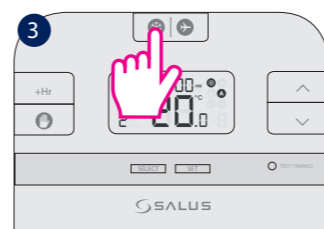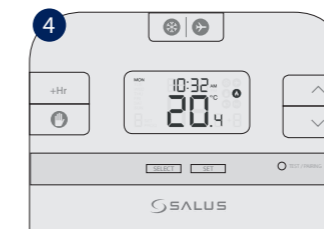

Frost protection

1 Press the FROST button once to activate the function.
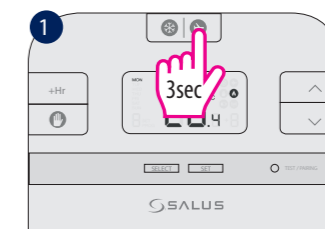
2 Frost Mode ON.

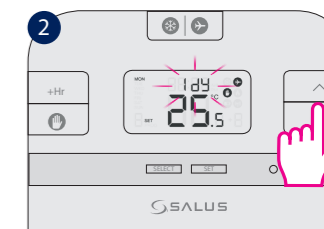**3** Press the FROST button once to deactivate the function.

4 Frost Mode OFF.

ℹ️ The Frost protection temperature can be reviewed by pressing the UP button once, but can only be changed in Installer Mode.
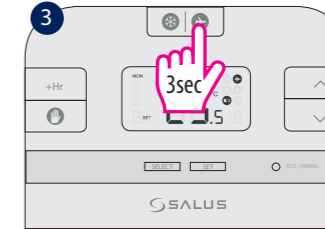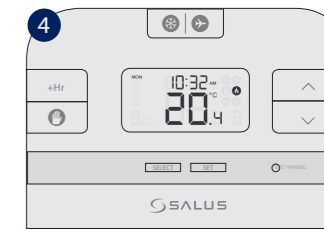

Holiday Mode

1 Press the HOLIDAY button for 3 sec.

2 Press the UP or DOWN button to set the Holiday period.
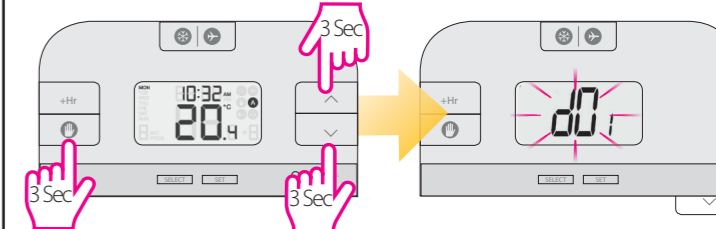
3 Press the HOLIDAY button for 3 sec to exit Holiday Mode.

4

ℹ️ You can also exit Holiday Mode by setting the days to zero.

Installer Mode

Press the three buttons together simultaneously for 3 seconds.

dxx	Function	Parameter	Default value
d01	Temperature display increments	0.1℃ or 0.5℃	0.5℃
d02	Temperature offset	+/- 3.0℃	0.0℃
d03	Frost Protection setpoint temperature	5.0℃ - 17.0℃	5.0℃
d04	Programmer selection	5/2 or 24 hr (7d)	52d

Reset function RT510TX+

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

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.

ℹ️ 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.