SALUS CONTROLS

Digital programmable wireless 4 in 1 thermostat
Models: VS10WRF, VS10BRF,
VS20WRF, VS20BRF

Quick Guide

for 14.4 MCU,
7.3 (VS20..RF), 10.9 (VS10..RF) ZigBee software version

VI 2020

Introduction

VS10..RF / VS20..RF is a room temperature thermostat that is used for wireless control of iT600 series devices such as: KL08RF wiring centre, TRV radiator valve and RX10RF boiler receiver. In combination with Universal Gateway UGE600 this regulator can be controlled over the Internet using SALUS Smart Home app (Online mode). Without Internet connection (Offline mode) thermostat works locally, but its communication with other devices must be done through the coordinating unit - CO10RF. Full version of the PDF manual instruction is available on the website www.salus-controls.eu

Product compliance

EC Directives: 2014/30/EU, 2014/35/EU, 2014/53/EU i 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.

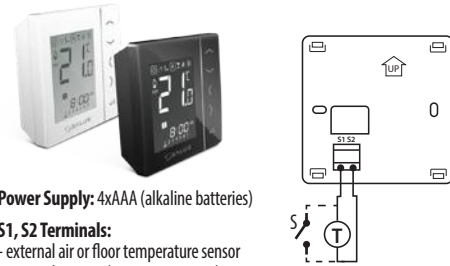## Wiring diagram - VS10WRF (white), VS10BRF (black)

L
230V AC
FUSE
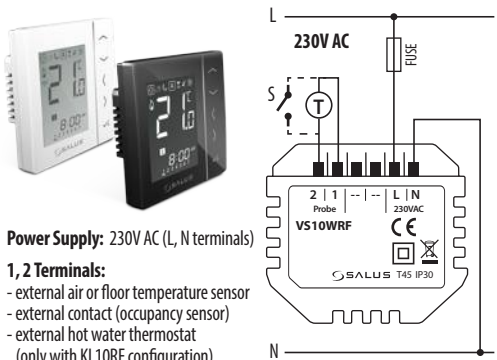
Power Supply: 230V AC (L, N terminals)

1, 2 Terminals:
- external air or floor temperature sensor
- external contact (occupancy sensor)
- external hot water thermostat
  (only with KL10RF configuration)

Montage: 60mm concealed box

2	1	--	--	L	N
Probe					230VAC
VS10WRF					

T45 IP30

N

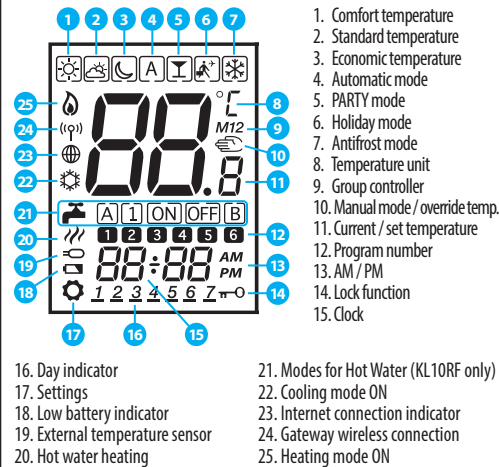## Wiring diagram - VS20WRF (white), VS20BRF (black)

Power Supply: 4xAAA (alkaline batteries)

S1, S2 Terminals:
- external air or floor temperature sensor
- external contact (occupancy sensor)
- external hot water thermostat
  (only with KL10RF configuration)

Montage: surface mounting (need to remove back cover)

UP
0
S1 S2

LCD Icon description

1. Comfort temperature
2. Standard temperature
3. Economic temperature
4. Automatic mode
5. PARTY mode
6. Holiday mode
7. Antifrost mode
8. Temperature unit
9. Group controller
10. Manual mode / override temp.
11. Current / set temperature
12. Program number
13. AM / PM
14. Lock function
15. Clock
16. Day indicator
17. Settings
18. Low battery indicator
19. External temperature sensor
20. Hot water heating
21. Modes for Hot Water (KL10RF only)
22. Cooling mode ON
23. Internet connection indicator
24. Gateway wireless connection
25. Heating mode ON

Button Functions

Button	Function
⌃	Increasing/decreasing temperature or other value
⌄	
⟨	Selecting the operating mode or switching between values
⟩	
✓	Short press - approve selection Hold - enter / exit to or from the menu
⌃ + ⌄	Hold down these buttons to lock or unlock the keyboard
✓ + ⟨	Hold down these buttons to enter installer mode

Select the type of ZigBee coordinator:

**Choose a ZigBee coordinator and prepare it to work with iT600 series devices:**

• Online - connected to the Internet via the **UGE600** gateway
  or
• Offline -the ability to connect to the Internet using the **UGE600** gateway
  or
• Offline - without Internet connection with **CO10RF** coordinator

Firstly with the selected coordinator need to install devices, which will be controlled by thermostat. Pairing method of each devices is described in the manual instruction of a particular device.

KL08RF   Thermostatic radiator valve (TRV)   RX10RF

Installation - first start up
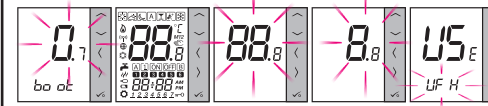
*Numbers 88.8 and 8.8 relate to the software version

MCU software   ZigBee software

Thermostat starts up in a simplified configuration mode. You can choose to pair with:

UF H - KL08RF or KL10RF wiring centre (underfloor heating)

rА d - Thermostatic radiator valve (radiator heating)

Note: Thermostat is set by default as programmable (weekly).

Installation - extended configuration

If the simplified configuration is not suitable, run the expanded configuration by holding 3 keys as below until SEL PROG appears:

1. US E / UF H
2. SE L / Pr оg
3. SE L / Pr оg
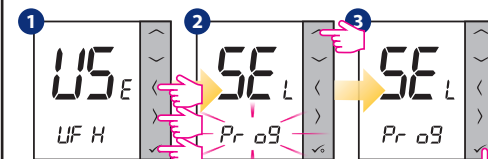
Set the theromstat type:

Pr оg   Programmable (weekly)
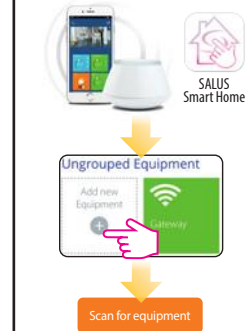dlSt   Daily
uu tr   Hot Water timer (works only with KL10RF)

4. After approval of the type of thermostat, choose the type of device to cooperation with:

UF H   Underfloor heating
rА d   Thermostatic radiator valve (radiator heating)
rE C1 RX10RF in RX1 mode
rE C2 RX10RF in RX2 mode

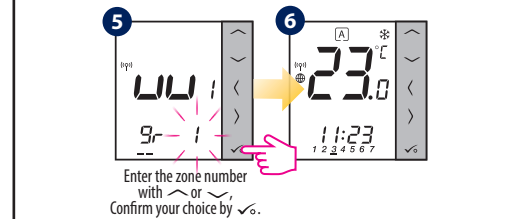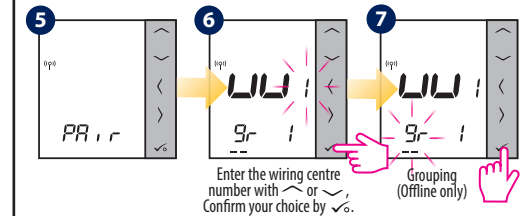## Installation - pairing with KL08RF / KL10RF wiring centre
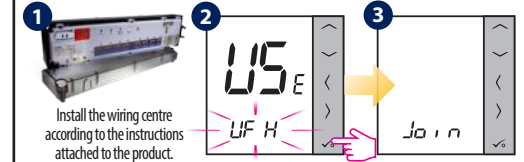
1. Install the wiring centre according to the instructions attached to the product.
2. US E / UF H
3. Join

4. **Online**

Ungrouped Equipment
Add new Equipment
Gateway
SALUS Smart Home
Scan for equipment

Offline

⚠ **WARNING!**
Do not use CO10RF coordinator with UGE600 simultaneously.

Open the ZigBee network

5 sec

OR

5 sec

5. PА.r
6. UU1 / gr 1   Enter the wiring centre number with ⌃ or ⌄, Confirm your choice by ✓.
7. UU1 / gr 1   Grouping (Offline only)

5. UU1 / gr 1
6. 23.0 / 11:23   Enter the zone number with ⌃ or ⌄, Confirm your choice by ✓.

11. **Online**

Connect equipment
Name this equipment
Living room
Finish

Offline

Close the ZigBee network

5 sec

OR

5 sec
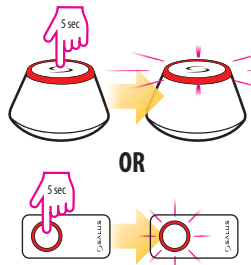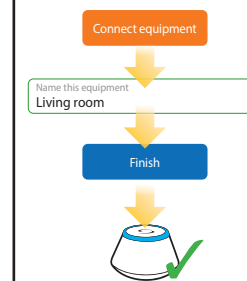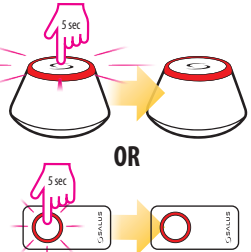
Pairing thermostat with TRV in Online mode

⚠️ **WARNING!** You can connect up to 6 heads to one thermostat.

1 Install the TRV on the valve according to the instructions attached to the product.

2 US E rAd — Select the device type - TRV.

3 Join

4

5 SALUS Smart Home — High Street Apartment

6 Home / Equipment / Settings / Help / My Status

7 Back — All equipment / OneTouch / Gateways

8 Ungrouped Equipment — Add new Equipment / Gateway

9 Scan for equipment

10 PAir

11 Ot rv

12 A 23.0 °C 11:23 1 2 3 4 5 6 7

13 Connect equipment

14 Name this equipment — Living room

15 Finish

16 Open the tab with the main parameters of the thermostat, set to work with TRV.
0 TRVs on this thermostat

17 Select TRV(s) for Living room — ✓ TRV-1 Living room

18 Save

19 1 TRVs on this thermostat ✓

Pairing thermostat with TRV in Offline mode

⚠️ **WARNING!** You can connect up to 6 heads to one thermostat.

1 Install the TRV on the valve according to the instructions attached to the product. — Hold the button for 10 seconds, The LED on the head should start to blink red.

2 US E uF H

3 US E rAd — Select the device type - TRV.

4 Join

5 Open the ZigBee network — 5 sec OR 5 sec

⚠️ **WARNING!** Do not use CO10RF coordinator with UGE600 simultaneously.

6 PAir — Device is paired with coordinator, diode on the TRV will start to blink orange.

7 Ot rv — Diode on the TRV will light up once green and stop blinking.

8 It rv — TRV has been added.

9 A 23.0 °C 11:23 1 2 3 4 5 6 7 — Thermostat will go to the home screen.

10 Close the ZigBee network. — 5 sec OR 5 sec

Pairing thermostat with RX10RF boiler receiver

1 Install the RX10RF boiler receiver according to the instructions attached to the product. Choose proper mode configuration with RX1/RX2 switch inside of RX10RF, then prepare regulator for pairing.

⚠️ **WARNING!** In network coordinator can works only with 1 receiver in RX1 mode and 1 receiver in RX2 mode.

2 Run thermostat in **extended configuration mode** and select the device type:
RX10RF in **RX1** mode — US E rEC1 OR RX10RF in **RX2** mode — US E rEC2

3 Join

4 **Online** — SALUS Smart Home — Ungrouped Equipment — Add new Equipment / Gateway — Scan for equipment

Offline — ⚠️ **WARNING!** Do not use CO10RF coordinator with UGE600 simultaneously. — Open the ZigBee network — 5 sec OR 5 sec

5 PAir — rEC1 A 23.0 °C 11:23 OR rEC2

6 **Online** — Connect equipment — Name this equipment — Boiler — Finish

Offline — Close the ZigBee network — 5 sec OR 5 sec

Identification of paired devices

Enter the installer mode, select code "00" and confirm it with ✓ button.

1 A 23.0 °C 11:23 1 2 3 4 5 6 7 — 5 sec / 5 sec / 5 sec

2 00 PS uu

3 10 Id

4 LED diodes on the devices connected to the thermostat will start to blink.

5 10 Id

6 A 23.0 °C 11:23 1 2 3 4 5 6 7

Press ✓ to exit the test menu.

Temperature change

To set the temperature, press ⌃ or ⌄, and then confirm it with ✓ button.

1 A 21.0 °C 11:23 1 2 3 4 5 6 7

2 A 23.5 °C 11:23 1 2 3 4 5 6 7

3 A 21.0 °C 11:23 1 2 3 4 5 6 7

Note: If thermostat works in AUTO mode, then the overwritten temperature will be maintained until next program. In manual mode and antifrost mode temperature change is permanent.

Factory Reset

If you have made an error, need to change your thermostat parameters or want to return to the factory settings, please follow steps below.

Note: This action will permanently remove all your settings.

1 A 23.0 °C 11:23 1 2 3 4 5 6 7 — 5 sec / 5 sec / 5 sec

2 00 PS uu

3 47 PS uu

4 dE L

5 AE s s

6 US E uF H