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Icons used in this manual:



Safety

Safe



Important info

Your benefit

For latest PDF installation guide please go to www.salus-controls.com



Warranty Box Contents



1 x Installer / User manual



Fixing screws



VS10WRF

VS20BRF

Product Compliance & Safety Information

INTRODUCTION

Thank you for purchasing the SALUS 4 in 1 room thermostat it must be used with the CO10RF Zigbee Coordinator. The Zigbee coordinator allows communication with other devices in the iT600 RF system range. Other Zigbee devices include wiring centre, system receiver & TRV.

iT600RF Range





Product Compliance

This product is CE compliant and meets the following EC Directives Electro-Magnetic Compatibility directive 2004/108/EC Low voltage Directive 2006/95/EC



Safety Information

Use in accordance with the regulations The SALUS VS10/20RF is to be used for room control of heating and hot water systems inside the house

We hope you enjoy this product...



Product Compliance & Safety Information

These instructions are applicable to the SALUS model stated on the front cover of this manual only.



Warning

This product 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 requirements of the relevant guidance, standards and regulations could lead to injury, death or prosecution.



Sources of danger

The thermostat must be disconnected from mains supply before removing the cover.



Emergency

Switch off the voltage to the individual thermostat wring centre or complete system.



230V AC



Warning

Always isolate the AC Mains supply before installing or working on any components that require 230 VAC 50Hz supply.



Installer parameter settings

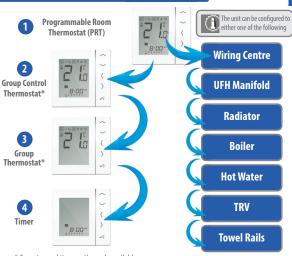
The SALUS VS10 and VS20 are equipped with installer parameter section (see page 57) this must only be entered by the installer or competent person. Changing these parameters can have a serious effect on your heating system



For the installer

Please enter any parameter changes in the installer notes section (pages 90)

System Overview - Configuration Options



* Grouping and timer option only available when used with wiring centre.

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Programmable Room Thermostat (PRT)

When configured for PRT (see page 32) it mainly works by itself and allows the user to have separate Time and Temperature control of each zone on the wiring centre, radiator valve or system receiver. Features like Vacation, Party frost mode have to set on each individual thermostat. All PRTs paired with a wiring centre can also use the global heat/cool changeover function if the your system supports this. This is achieved by using the heat/cool changeover connection on the wiring centre (see note 8 on wiring centre quide).

Group Control Thermostat

When configured for a PRT (see page 32) it can operate as a group control thermostat by assigning a group when pairing with the wiring centre this allows central control of up to 7 group thermostats see below, there can be a maximum of 2 groups per 8 zone wiring centre. Permanent temperature override, Holiday, Party, Frost modes, can be selected centrally from the Group Control Thermostat. Holiday will also be applied to a timer if applicable. The group thermostats can be also globally changed from heating to cooling thermostats if you system supports this by using the switched input connection on the WC (see note 8 on the wiring centre guide).

Group Thermostat

When configured as a digital thermostat and assigning a group when pairing with a WC it can operate as a group thermostat (see page 31), in group mode the group thermostat will follow the time schedule and any override modes of the group control thermostat. At least one group control thermostat is required for grouping see above. The group thermostat can have its own programmed temperatures, manual override and also be removed from the group temporarily or permanently.

Timer

When configured to timer (see page 32) the unit will operate as a timer with no temp control. This can be used for hot water control. The timer will also follow Holiday mode from the group control thermostat if applicable.

System Overview - Zigbee Coordinator

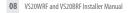
Zigbee coordinator required for communication between these devices.







System Overview - iT600 System The thermostat can communicate with all these iT600 devices System Receiver configured to one room receiver RX2. Refer to system receiver RX10RF System Receiver configured to boiler receiver. Refer to system receiver manual RX10RF. Max 3 TRV per thermostat





System Overview - Hot Water Option



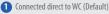
When the unit is configured as a hot water timer (see page 32) there are two methods of connecting the cylinder thermostat.

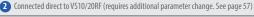
Unit configured to Hot Water Timer.



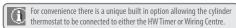


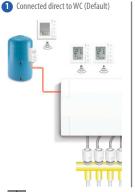
Cylinder thermostat options















Please refer to note 1 on Wiring Centre guide and pages 15 and 20 for more information.

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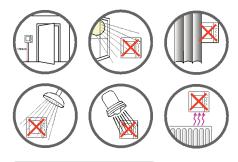






Mounting position and installation

To ensure trouble free operation and efficient control, the unit is best positioned in a draft free area and at 130cm from the floor. Do not position the thermostat near any heat source, behind curtains, direct sunlight or an area of high humidity.





Not to be positioned on an exterior wall.



Installation — Thermostat Mounting VS20WRF







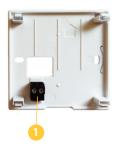




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Rear of unit





Sensor Terminals Can be used for external AIR, Floor sensor when configured as thermostat. Can also be used for Cylinder thermostat when configured for HW. See page 57.

Installation – Thermostat External Sensor VS20WRF



SALUS External sensor (Sold separately)



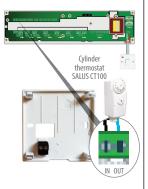
Note: If you are using an external sensor, the unit has to be configured for External Air Sensor or Floor Protection Sensor please see device parameter setting page 57.







Installation — Hot Water Timer Cylinder Thermostat VS20WRF



Link must be fitted

WC connected cylinder thermostat (Default)

HW Timer connected cylinder thermostat



Note: The unit can be configured for Cylinder thermostat or connected to the Hot Water Timer. Please see device parameters page 57. For additional Wiring Centre information refer to note 1 on Wiring Centre guide.

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Installation — Thermostat Mounting VS20WRF

Once you have connected your choice of external sensor (if applicable)









Insert batteries







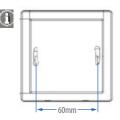
Installation – Thermostat Mounting VS10WRF







Carefully remove the front housing.



Installation — Terminal Connections VS10WRF

Understanding your terminal connections





Power Terminals 230 Vac Used for supplying power to the unit. 230V supply can be sourced from the wiring centre or any convenient



Sensor Terminals

source.

Can be used for external AIR. Floor sensor when configured as thermostat. Can also be used for Cylinder thermostat when configured for HW.



Installation – Thermostat External Sensor VS10WRF



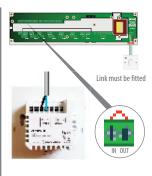
SALUS External sensor (Sold separately)

Note: If you are using an external sensor, the unit has to be configured for External Air Sensor or Floor Protection Sensor please see device parameter setting page 57.



Installation — Hot Water Timer Cylinder Thermostat VS10WRF





WC connected cylinder thermostat (Default)

HW Timer connected cylinder thermostat



Note: The unit can be configured for Cylinder thermostat or connected to the Hot Water Timer. Please see device parameters page 57. For additional Wiring Centre information refer to note 1 on Wiring Centre guide.









Check that the wiring is completed for:



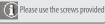
Power Terminals



Sensor Terminals (if applicable)



You are ready to secure the rear housing to the wall box





Ensure the orientation arrow is pointing upwards.



Installation – Thermostat Mounting

Fit the front housing to the rear housing

Ensure the pin connections are aligned



Align the front housing at the bottom edge.



Lightly press until you hear a positive click.

ICON	FUNCTION
	BOX means to select the mode e.g. means the current setpoint is Hi temp, 🔅 means the Hi temp is not selected.
300	Sunny: Hi comfortable temperature.
Œ	Cloudy: Middle comfortable temperature.
(Moon: Low comfortable temperature.
A	Programmable thermostat Program mode indicator: Indicates program is running, Auto On or Auto Off. For group thermostat this indicates that it is a member of a group.
I	Party indicator: When Party mode is active.
*	Vacation indicator: When Vacation mode is active
*	Frost protection indicator: Frost protection is active, not available in cooling mode (if applicable)
094	RF Transmission is active
MTi	Group 1 Control Thermostat
M: 2	Group 2 Control Thermostat
f.	Group 1 Thermostat
2	Group 2 Thermostat

Installation — LCD Graphics

ICON	FUNCTION
۵	Heat indicator: Indicates heat is required.
¢	Cool mode indicator: Indicates cooling is required (if applicable)
88.º	Temperature indicator: Display the room temperature. Display the set-temp. Also used to show the other information.
400	Temporary manual override indicator: If the set temperature is changed when in program mode, the hand will appear until the next program start time.
12	Programs number indicator: In AUTO program mode or Temporary override is running, it means the current program running.
123456Z	Day indication: 1 = Monday







Installation — LCD Graphics

ICON	FUNCTION
7	Hot Water (HW) indicator: Unit has been configured for HW Timer.
W	Hot Water (HW) indicator: Indicates that there is Hot Water demand.
A	HW Program mode indicator: Indicates program is running.
1	HW Mode indicator: Mode for 1 period of HW a day, from Program 1 ON to Program 3 OFF.
<u>ON</u>	HW Mode indicator: Indicates continuously On.
OFF	HW Mode indicator: Indicates continuously Off.
<u>B</u>	HW Mode indicator: Indicates Boost +1hr override.



Installation — LCD Graphics

ICON	FUNCTION
Q	Floor sensor probe indicator Show only when Air + Floor sensor is connected.
	Low battery indicator: Batteries need to be replaced.
٥	Setting indicator: Indicate the unit is in setting mode when program setting. Indicate the manual mode.
- 0	Keylock indicator: Shows that keys are inactive.

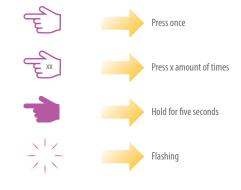




KEY	FUNCTION
OR >	Increase or decrease setpoint temperature. Increase or decrease Day, Clock, Timer, Party, Holiday and Boost. Select installer parameter value.
(OR)	Mode selection. Long press to return to home display without saving. Short press to return to the previous screen when it is in user/installer setting mode.
√ ∘	OK key: Short press to confirm selection. Long press to save and exit. Long press to enter the user settings.
LONG PRESS	Lock/Unlock
Vo. + (+) LONG PRESS	Enter Installer parameter settings

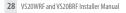


Installation - Graphics Key











Installation – First Power Up





SSALUS

Installation - System Setup

System setup checklist





Please refer to pages 33-45 and the relevant device installation guides.



Installation — System Parameters

You are now ready to configure the unit using the system parameter table below.



SX	FUNCTION	SYSTEM SETTING	DEFINITION	DEFAULT
S01	System Unit	0	Programmable Stat (PRT)	
	Туре	1	Digital Thermostat	0
		2	HW Timer	
S02	What does unit	0*	It600 Wiring Centre*	
	Communicate	1	It600 radiator valve	0
	within the iT600	2	System Receiver set for RX2	
	system	3**	System Receiver set to RX1**]]



** This setting is used when there is a system receiver only in the system. If there is a system receiver set to RX1 used along with wiring centre, radiator valves and system receiver set to RX2 then RX1 will communicate automatically to the thermostat connected to these other devices.





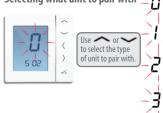
Installation - System Setup







Selecting what unit to pair with









System Receiver

Wiring

Centre. Page 33



Only configure RX1. Page 44



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Checklist

- The Zigbee coordinator must be in pairing mode.
- Ensure the wiring centre and optional system receiver (Configured to RX1) for remote boiler switch are powered up. Note: The wiring centre and system receivers will automatically join Zigbee network when powered up and the Zigbee coordinator is in pair mode. Red LED on Wiring Centre and RX1 will go steady when the devices have joined the Zigbee network.



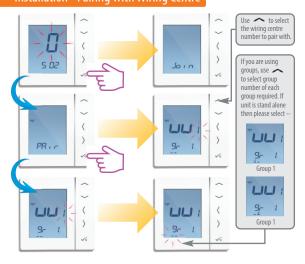
GSALUS

If more than one wiring centre is in the system, establish and note the wiring centre number by pressing the network key for 1 second. The wiring centre number will flash.

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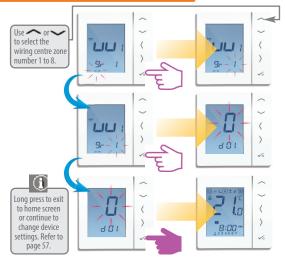








Installation - Pairing with Wiring Centre



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If you are using the optional system receiver configured to RX1 please check that the green light goes on when the temperature is raised and off when reduced.



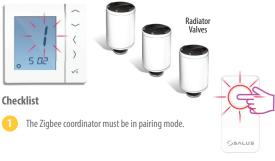
If pairing for your system is complete, please take the coordinator out of pair mode. Press for 5 seconds and light will stop flashing.



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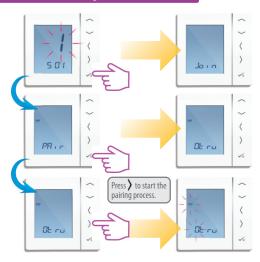
Installation - Pairing the Radiator Valve(s)





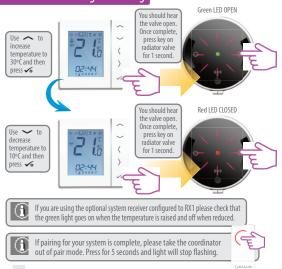
If you are using the optional system receiver configured to RX1 for remote boiler switching. Ensure this has been powered up and the red flashing LED has gone steady.

Installation - Pairing with Radiator Valve













Installation - Pairing with System Receiver RX2

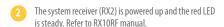


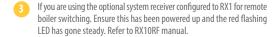


System Receiver Configured to RX2 single room receiver.





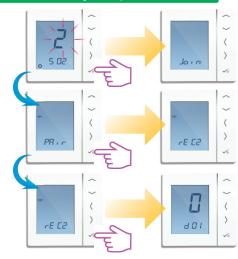






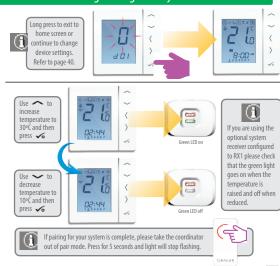


Installation - Pairing with System Receiver RX2





Installation - Testing Pairing with System Receiver RX2





Used if system receiver is used on its own.







Checklist

System Receiver configured to boiler receiver RX1. Refer to system receiver manual.





The system receiver (Configured to RX1) is powered up and the red LED is steady. The system receiver will auto join the Zigbee network on power up when the Zigbee coordinator is in pairing mode.

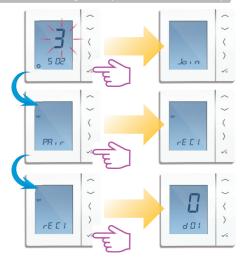


This configuration option is applicable if there is only a system receiver RX1 in the system.



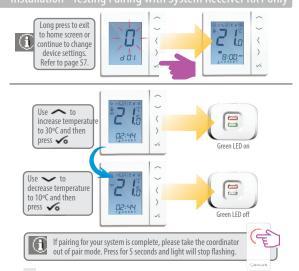


Installation - Pairing with System Receiver RX1 only



PAIRING WITH RX1

Installation - Testing Pairing with System Receiver RX1 only

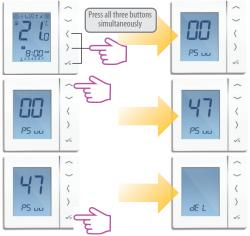




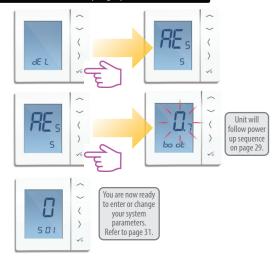


Installation - Modifying System Parameters

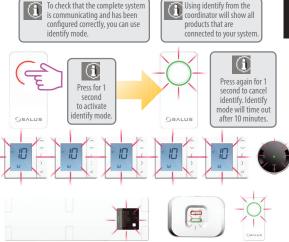
If you have made an error or need to change your system parameters please follow steps below. This should only be done by your installer.



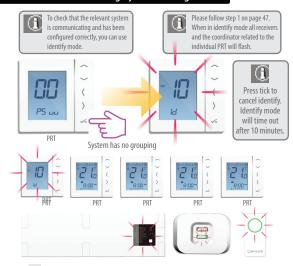
Installation - Modifying System Parameters



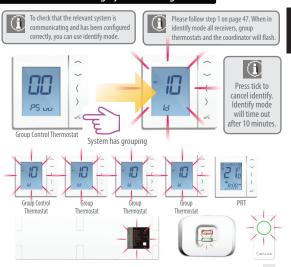




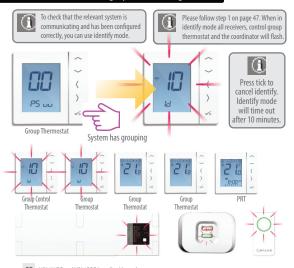


















To check that the complete system is communicating and has been configured correctly, you can use identify mode.



Using identify from the wiring centre will show all products that are connected to your wiring centre. Then wiring centre number will also be shown.



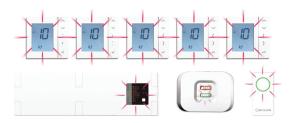


identify mode.



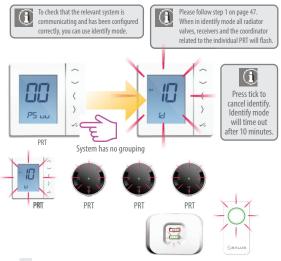


Press again for 1 second to cancel identify. Identify mode will time out after 10 minutes.













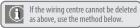


Before replacing any device it must be removed from the Zigbee network. Please ensure the Zigbee coordinator is also in pairing mode.

Deleting Wiring Centre from the network.



All LED's will flash momentarily and then the wiring centre will be deleted from the network. All thermostats relating to the wiring centre will need to be reconfigured and paired with the new wiring centre.





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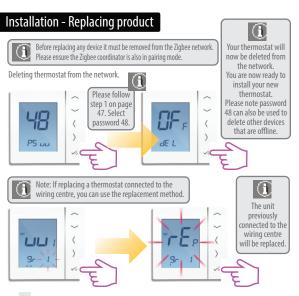


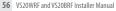
ready to

install vour

centre.

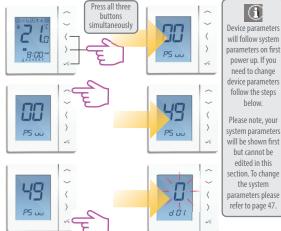






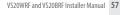


Installation - Device parameters



Device parameters will follow system parameters on first power up. If you need to change device parameters follow the steps below. Please note, your system parameters will be shown first but cannot be edited in this





DX	FUNCTION	SYSTEM SETTING	DEFINITION	DEFAULT
D01	Heating Control	0 1 2	Pulse Width Modulation On-Off 0.5 Deg C +/- 0.25 Deg C On-Off 1.0 Deg C +/- 0.5 Deg C	0
D02	Room Temperature Offset	-3.0 to 3.0 Deg C	Temperature Offset from Measured Temperature to Compensate for any error	0 Deg C
D03	Sensor probe or Cylinder thermostat connection	0	Sensor/Cyl stat not Connected Sensor/Cyl stat Connected	0
D04	Sensor probe used as air sensor or floor sensor	1	D03 must be set to 1 then external sensor be used as Air sensor. There will be no internal temp measurement D03 must be set to 1 then external sensor used for floor protection. Internal temp is measured by stat	0
D05	Cooling Control	1 2	On-Off 0.5 Deg C +/- 0.25 Deg C On-Off 1.0 Deg C +/- 0.5 Deg C	2
D06	Actuator type	0	NO Normally Open NC Normally Closed	1
D07	Valve protection	0	Disable Enable	1

⁵⁸ VS20WRF and VS20BRF Installer Manual



DX	FUNCTION	SYSTEM SETTING	DEFINITION	DEFAULT
D08	Frost Set point Temperature	5-17 Deg C	Required Temperature for frost protection and holiday mode	5 Deg
D09	Hour Format	0	12 24	1
D10	N/A	N/A	N/A	N/A
D11	Daylight Saving Time (DST)	0	OFF ON	1
D12	Heating Set point Limit	5-35 Deg C	Maximum temp that can be set for heating	35 Deg C
D13	Cooling Set point Limit	5-40 Deg C	Maximum temp that can be set for Cooling	5 Deg C
D14	Floor sensor High Limit Temperature	6-45 Deg C	Output relay will be switched off when temp is reached for floor protection	27 Deg C
D15	Floor sensor Low Limit Temperature	6-45 Deg C	Output relay will be switched on when temp is reached for floor protection	10 Deg C
D16	Floor sensor Limit for cooling	6-45 Deg C	Output relay will be switched off when temp is reached for floor protection	6 Deg C



Error Code	Prog	Non-Prog	HW
01	Comm Connection link failure	Comm Connection link failure	Comm Connection link failure
02	Comm Connection link failure	Comm Connection link failure	Comm Connection link failure
03	Floor sensor open	Floor sensor open	-
04	Floor sensor short	Floor sensor short	-
05	Prog/Non-prog/HW thermostat lost link with Coordinator (Displayed on related Thermostat) Comm Connection link failure	Prog/Non-prog/HW thermostat lost link with Coordinator (Displayed on related Thermostat) Comm Connection link failure	HW lost link with Coordinator
06	Prog/Non-prog/HW thermostat lost link with WC (Displayed on related Thermostat)	Prog/Non-prog/HW thermostat lost link with WC (Displayed on related Thermostat)	HW lost link with WC
07	Prog/Non-prog Thermostat lost link with TRV (Displayed on related Thermostat)	Prog/Non-prog Thermostat lost link with TRV (Displayed on related Thermostat)	-
08	Prog/Non-prog Thermostat lost link with Receiver RX 1 (Displayed on related Thermostat)	Prog/Non-prog Thermostat lost link with Receiver RX 1 (Displayed on related Thermostat)	-
09	Prog/Non-prog Thermostat lost link with Receiver RX 2 (Displayed on related Thermostat)	Prog/Non-prog Thermostat lost link with Receiver RX 2 (Displayed on related Thermostat)	-



If there is more than 1 error, then on Error page, press UP to show other error codes.
e.g. Err 03 05 ==== 3 errors Error code 05 (1st one)
Press Up to show Err 03 08 ==== 3 errors Error code 06 (2nd one)
Press Up again to show Err 03 09 ====> 3 errors Error code 09 (3nd one)
Press Up again to show Err 03 05 againtus...
Press UNC to exit Error page bads to flohem display.







Installation - Error Codes

Error Code	Prog	Non-Prog	HW
10	WC lost link with hot water timer (Displayed on all relevant thermostats and also hot water timer)	Comm Connection link failure (Displayed on all relevant thermostats and also hot water timer)	Comm Connection link failure (Displayed on all relevant thermostats and also hot water timer)
11-18	WC lost link with zone 11=Zone 1, 12=Zone 2 etc Displayed on all connected thermostats	Comm Connection link failure 11=Zone 1, 12=Zone 2 etc Displayed on all connected thermostats	-
19	WC lost link with coordinator (Displayed on all connected thermostats and hot water timer)	WC lost link with coordinator (Displayed on all connected thermostats and hot water timer)	WC lost link with coordinator (Displayed on all connected thermostats and hot water timer)
20	WC lost link with receiver RX1 (Displayed on all connected thermostats and hot water timer)	WC lost link with receiver RX1 (Displayed on all connected thermostats and hot water timer)	WC lost link with receiver RX1 (Displayed on all connected thermostats and hot water timer)
21	TRV lost link with coordinator (Displayed on all connected thermostats)	TRV lost link with coordinator (Displayed on all connected thermostats)	-
22	TRV low battery (Displayed on all connected thermostats)	TRV low battery (Displayed on all connected thermostats)	-
23	Invalid TRV	Invalid TRV	-
24	Unit is rejected by wiring centre	Unit is rejected by wiring centre	-



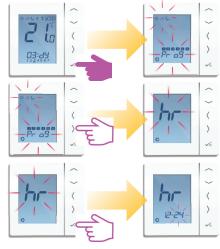
iT600 VS20W - Installer - User Machal 011_Layout 1 07.07.2014 10:38 Stron

Installation - Technical Detail

Model	VS10RF / VS20RF	
Type	Electronic programmable room thermostat, digital room thermostat and hot water RF	
Programming Modes	User selectable for 5/2, ALL and Individual day options	
Program Number	1-6 Selectable	
Modes	Party, Vacation, Program and Frost	
Override	Permanent and temporary	
Frost Protection	5°C Adjustable	
Power Source	230V AC 50Hz VS10RF - 4 x AAA VS20RF	
Temperature Scale	5 to 35°C, tolerance 0.5°C	
Heat/Cool	Global changeover using communication bus and external input to the wiring centre	
Sensor	Air or floor protection. Cylinder thermostat when configured for hot water timer.	
Device Parameters	See page 57	
Operating Temperature	0 to 50°C	
Storage Temperature	-20 to 60°C	
Frequency	2.4HGz Zigbee	



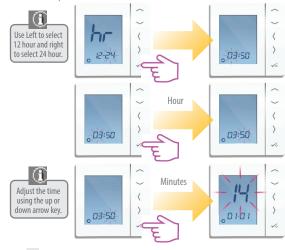
PRT and Group Control Thermostat





User Guide - Setting time and date

PRT and Group Control Thermostat

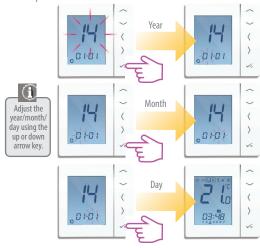








PRT and Group Control Thermostat





User Guide – Understanding Temperature Levels Heating

PRT, Group Control Thermostat and Group Thermostat



Highest Temperature typically used for early morning and early evening.

Typically 21 Deg C



Mid Temperature typically used for times of day when you are active around the home

Typically 19 Deg C



Lower Temperature typically used for unoccupied or sleep times. Typically 17 Deg C for UFH or 15 Deg C for radiators



Frost Temperature typically used for Periods of long absence or holidays. **Typically 5 Deg**



Your thermostat comes preset for the above temperatures. These can be adjusted please see page 71





User Guide - Understanding Temperature Levels Cooling

PRT, Group Control Thermostat and Group Thermostat





Occupied Temperature. Typically 22°C



Unoccupied Temperature Typically 40°C
This avoids cooling being active when the property is unoccupied.



Evening Temperature Typically 24°C

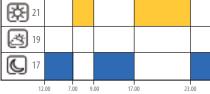


Your thermostat comes preset for the above temperatures. These can be adjusted please see page 71

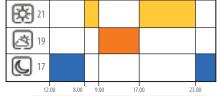


PRT and Group Control Thermostat





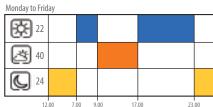
Saturday to Sunday

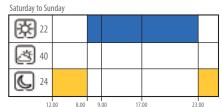


If using grouping, the schedule from the group control thermostat will be applied to group members.



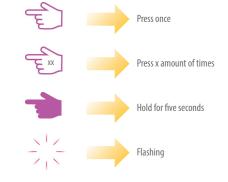
PRT and Group Control Thermostat





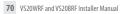
If using grouping, the schedule from the group control thermostat will be applied to group members.

User Guide - Graphics Key











User Guide - Setting required temp levels

PRT, Group Control Thermostat and Group Thermostat

Setting the low temperature









PRT, Group Control Thermostat and Group Thermostat



Repeat for







Move back to A once temperature levels have been chosen.

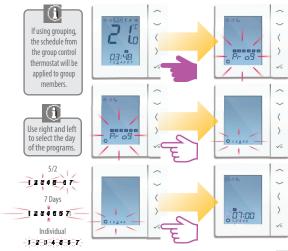








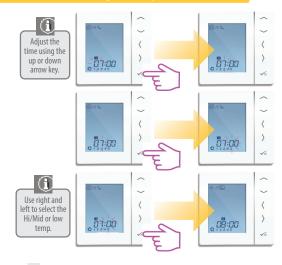








User Guide — Setting the Temperature Schedule









Repeat through to program 4.

If you require a 5th or 6th program enter a time and select your temperature





To remove a program out set the time to --:--.



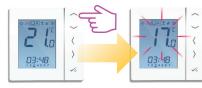
When you set the 🔆 🕳 📞 temperature the schedule will respond to those temperatures see page 71 on how to change 👆 🕳



User Guide - Temporary Override

PRT, Group Control Thermostat and Group Thermostat











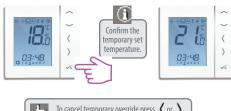






User Guide - Temporary Override

PRT, Group Control Thermostat and Group Thermostat







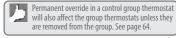


User Guide - Permanent Override

PRT and Group Control Thermostat

Setting permanent low temperature











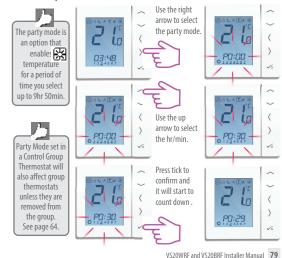




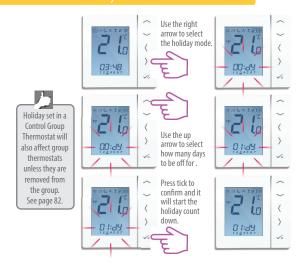




PRT and Group Control Thermostat

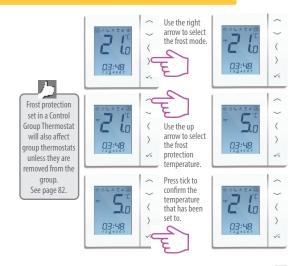


User Guide - Holiday Mode











When a group thermostat is in A

and the group control thermostat is in

or 🖈 then the group thermostat will follow this mode

▼ or 🖈 will be displayed.









When a group thermostat is in A it will follow the mode status of the group control thermostat.



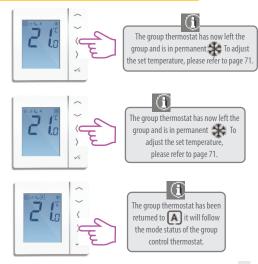
The group thermostat has now left the group and is in permanent To adjust the set temperature, please refer to page 71.



The group thermostat has now left the group and is in permanent To adjust the set temperature, please refer to page 71.



User Guide - Group Thermostat Overview



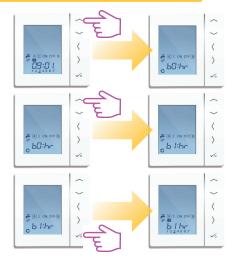
User Guide - Hot Water (Ontional) Mode Selection

Mode selection Hot water will be on once per day. When A is selected, the hot water timer will 09:01 follow the program schedule. See page 86. Hot water will be continuously on. Hot water will follow Holiday mode from the group control Hot water will be thermostat. continuously off. will be displayed. **0**9:0 (



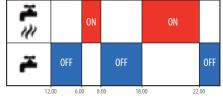


User Guide - Hot Water Boost

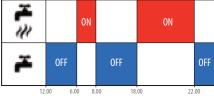




Monday to Friday



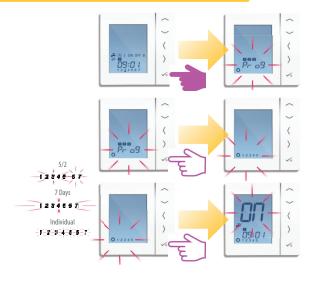
Saturday and Sunday





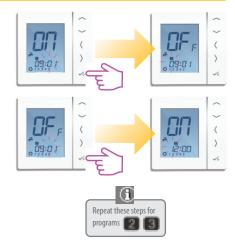


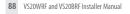
User Guide - Setting Hot Water Times





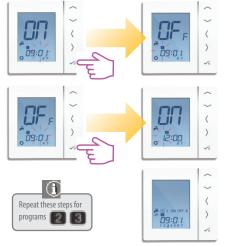
User Guide - Setting Hot Water Times







User Guide - Setting Hot Water Times



Warranty

SALUS Controls warrants that this product will be free from any defect in materials or workmanship, and shall perform in accordance with its specification, for a period of five years from the date of installation. SALUS Controls sole liability for breach of this warranty will be (at its option) to repair or replace the defective product.

	Customer Name:
	Customer Address:
	Tel No: Email:
	Engineers Company:
	Tel No: Email:
	Instalation Date:
	Engineers Name:
	Engineers Signature:
Ĺ	



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