



SALUS VS30B Programmable Wired Thermostat with Digital Display Installation Guide

[Home](#) » [SALUS](#) » SALUS VS30B Programmable Wired Thermostat with Digital Display Installation Guide 

Contents

1 SALUS VS30B Programmable Wired Thermostat with Digital Display Installation Manual

- 1.1 Introduction
- 1.2 Product Compliance
- 1.3 Safety Information
- 1.4 Terminals description
- 1.5 Proper thermostat placement
- 1.6 Button Functions
- 1.7 LCD Icon description
- 1.8 Installation
- 1.9 Wiring diagrams
- 1.10 Time and date setting
- 1.11 Temperature setting
- 1.12 Manual mode – temperature settings
- 1.13 Programming
- 1.14 NSB function – automatic mode
- 1.15 Installer settings
- 1.16 Error codes
- 2 Documents / Resources
 - 2.1 References
- 3 Related Posts



DISTRIBUTOR OF SALUS CONTROLS:

QL CONTROLS Sp. z o.o., Sp. k.
 Rolna 4,
 43-262 Kobielice,
 Poland

Importer:

SALUS Controls Plc
 Units 8-10 Northfield Business Park
 Forge Way, Parkgate, Rotherham
 S60 1SD, United Kingdom



www.salus-controls.eu

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Introduction

The VS30 thermostat controls temperatures of individual heating zone in underfloor heating systems. Thermostat allows for significant savings thanks to the possibility of maximum reduction the set temperature. The full version of the manual in PDF format is available on the website www.salus-controls.eu

Product Compliance

This product complies with the following EU Directives: Electromagnetic Compatibility 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU. Full information is available on the website www.saluslegal.com



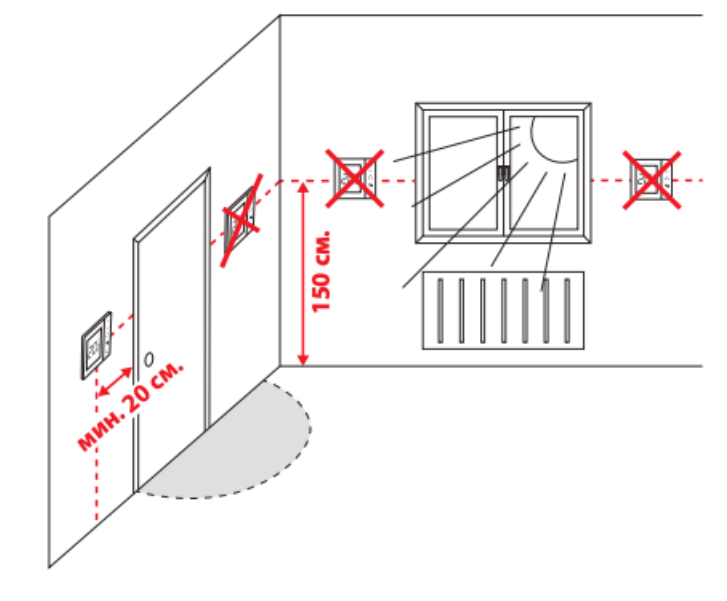
Safety Information

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

Terminals description

Terminal	Description
L,N	Power Supply 230 V AC
NSB	Night SetBack (output 230 V AC)
SL	Switched output (230 V AC)
S1, S2	External temperature sensor

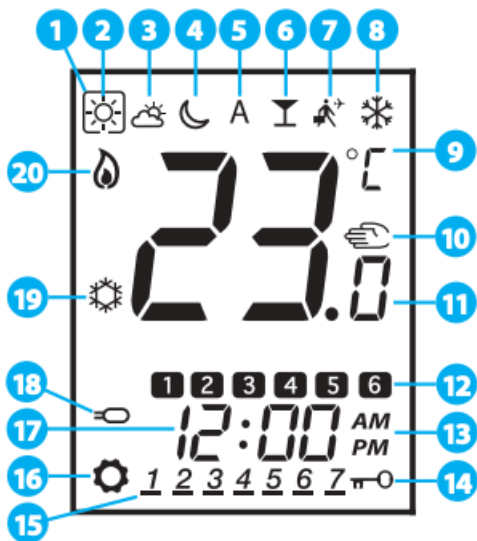
Proper thermostat placement




Button Functions

Button	Function
	Increasing / decreasing temperature or value
	Selection of the operating mode, switching between values
	Short press - selection confirmation Long press - entry to or exit from the menu
	Long press causes blocking or unlocking the thermostat
	Long press enters the installer mode

LCD Icon description

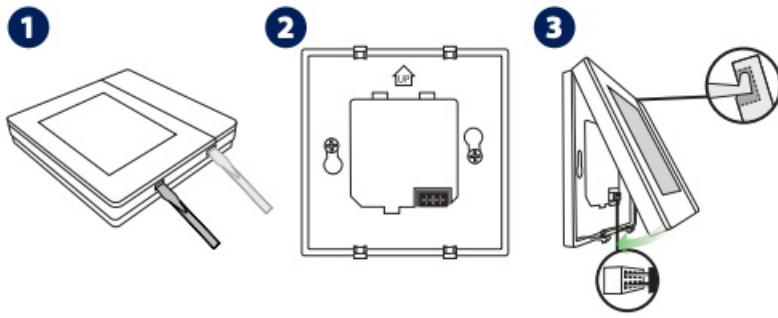


1.  Current active mode
2. Comfort mode
3. Standard mode
4. Economic mode
5. Automatic mode
6. PARTY mode
7. Holiday mode
8. Frost protection mode
9. Temperature unit
10. Manual mode / temp. override
11. Current / set temperature
12. Program number
13. AM/PM
14. Key lock
15. Day of the week
16. Settings
17. Time
18. Additional temp. sensor
19. Cooling
20. Heating

Installation



The VS30 thermostat has been designed for flush mounting in a standard electrical box with a diameter of 60 mm.



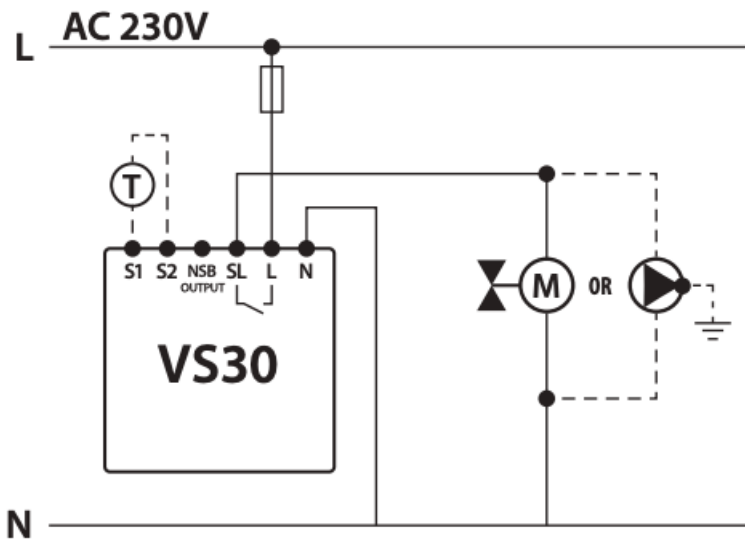
Note: Use the rear plate of the VS30 thermostat only with this model.

Wiring diagrams



An additional temperature sensor is optional.

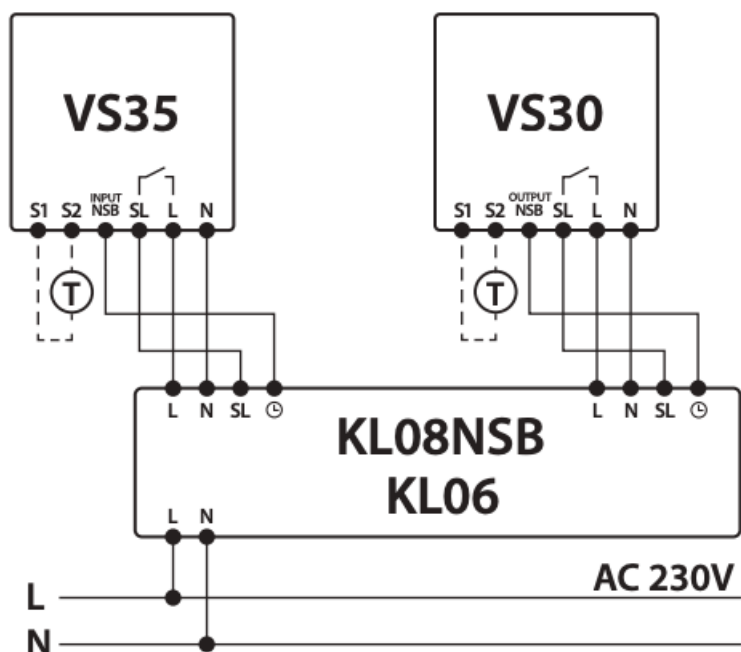
VS30 thermostat in connection with actuator or pump



VS30 thermostat in connection with wiring centre



In this diagram, the VS30 thermostat manages the NSB function, more details about NSB function can be found on the next page.

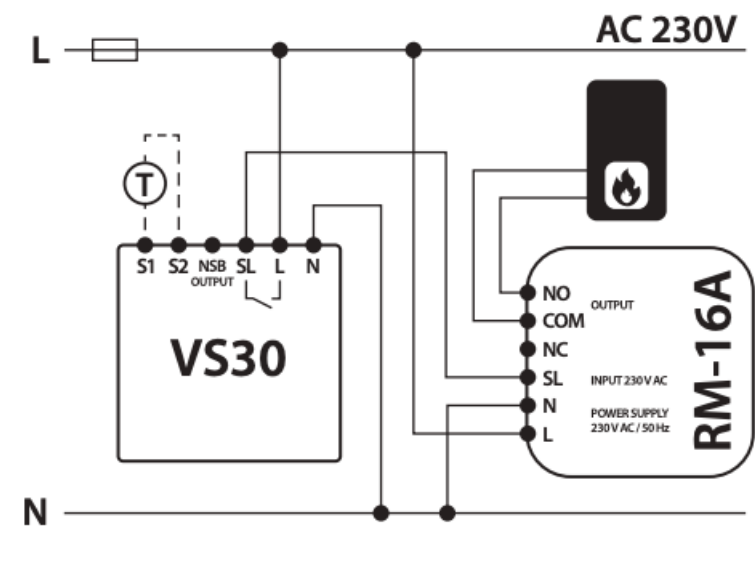


Note: In the KL06 wiring centre, the SL terminal is marked with an arrow icon ↓.

VS30 thermostat in connection with a boiler with a “NO” voltage free terminal through the RM-16A relay



NSB function is not active.

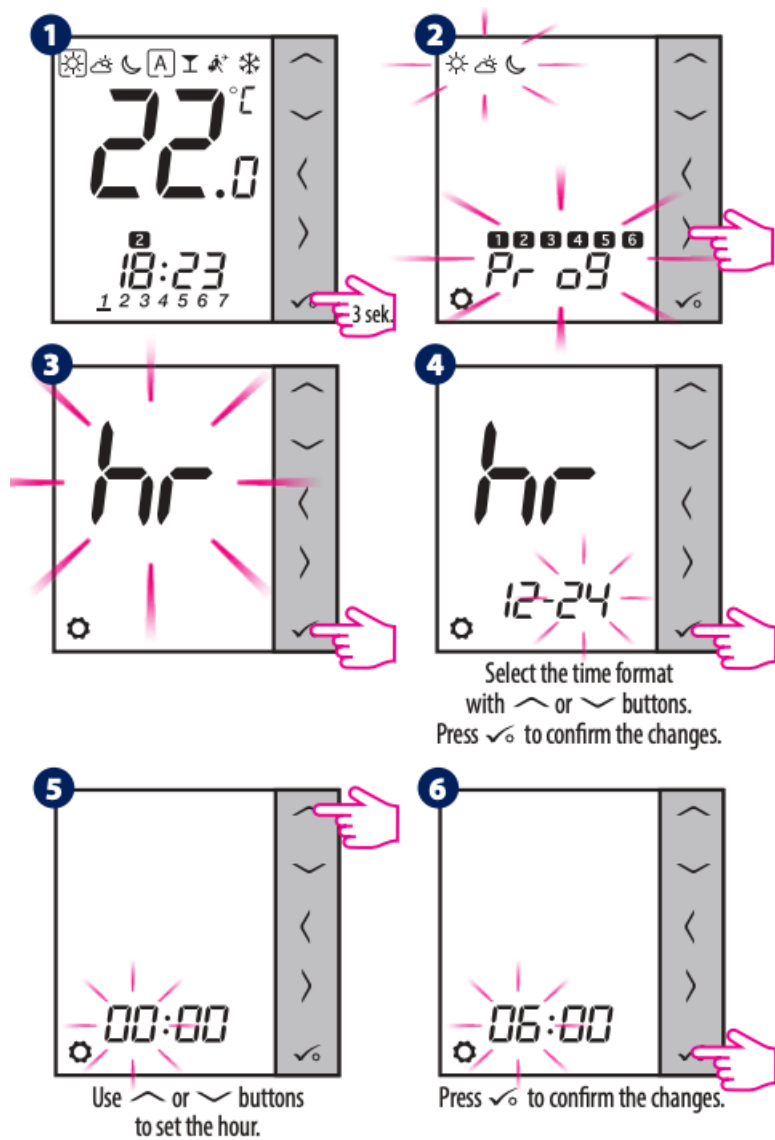


Time and date setting

Note: During the first start-up, thermostat will automatically start time and date setting – in this case go to step 4.



Press any button to highlight the screen, then follow the steps below:



- 7 Similarly to steps 5 and 6, set the minutes, year, month and day.

Temperature setting



Press any button to highlight the screen, then follow the steps below:



Current temperature.



Temperature set in the selected operating mode



Set the temperature with ^ or v buttons.



Press ✓ to confirm the changes.

Manual mode – temperature settings

There are 4 temperature levels available. In manual mode only one temperature level is active (icon in the frame ☐ indicates which mode is currently chosen). For each temperature levels you can set a different temperature.



- Comfort mode



- Standard mode



- Economic mode (when this mode is selected on the NSB output appears 230 V AC voltage)



- Frost protection mode. Usually used in a longer period of absence or during the holidays (available only in heating mode).

Thermostat also has 2 additional modes:



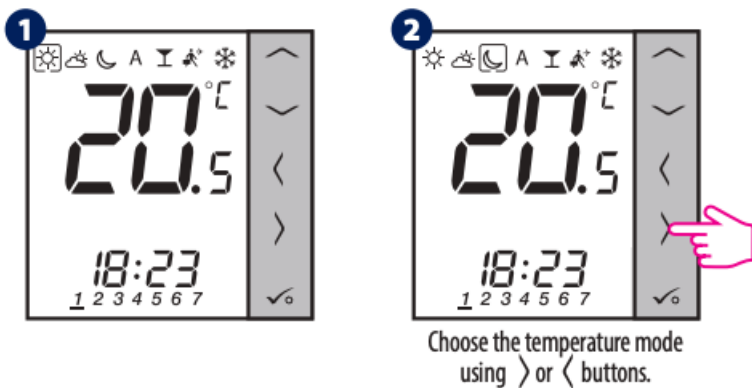
- PARTY mode sets the comfort temperature  for a defined time by the user (maximum 9 hours 50 minutes).



- The HOLIDAY mode sets the frost protection temperature  for a user defined period of time (maximum 99 days).



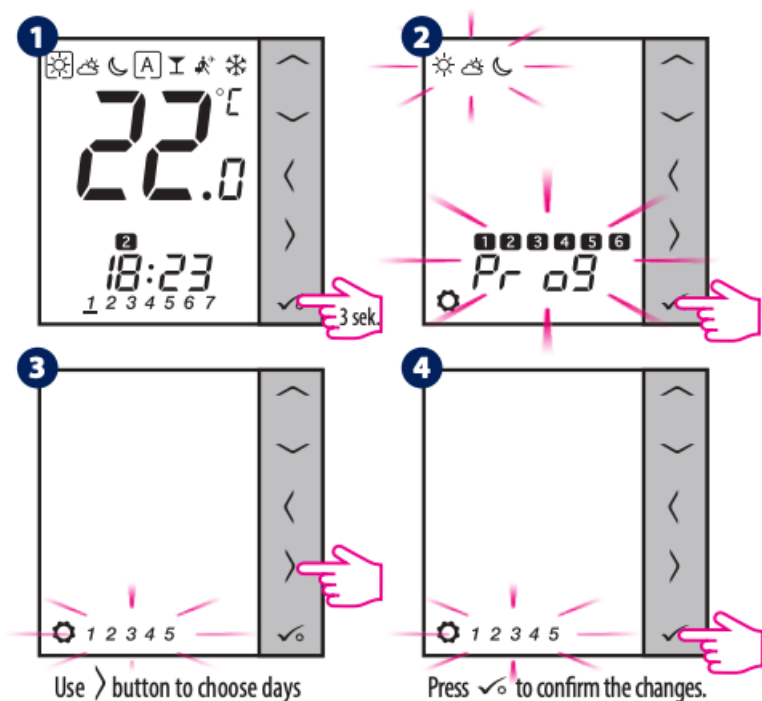
Press any button to highlight the screen, then follow the steps below:



Programming

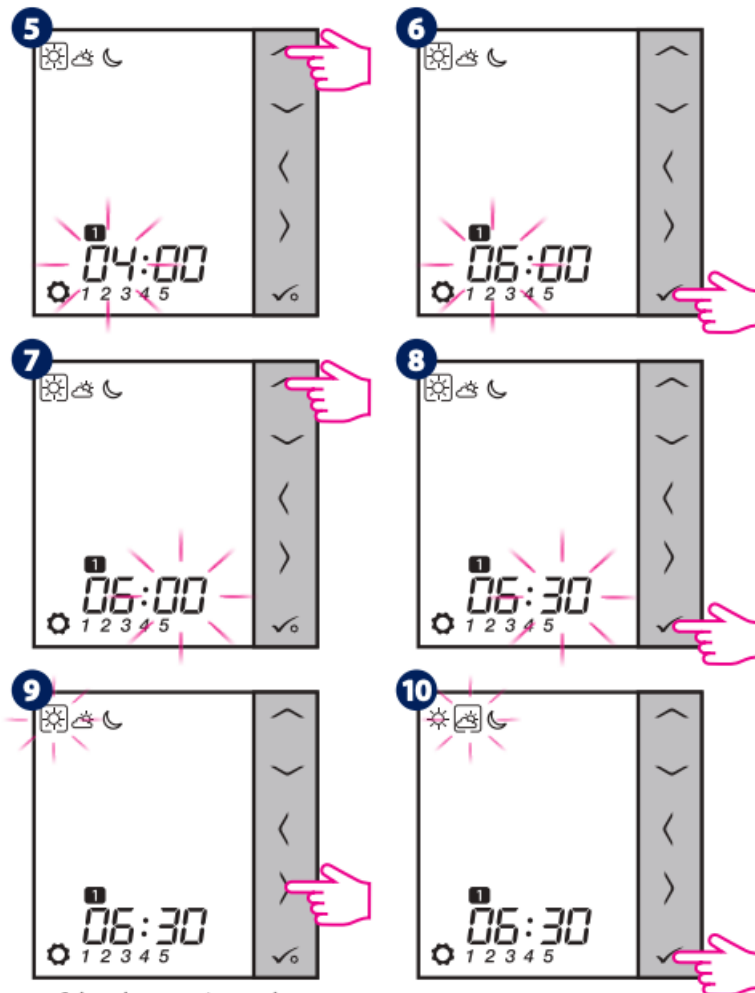


Press any button to highlight the screen, then follow the steps below:

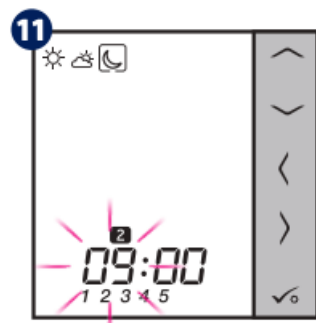


1 2 3 4 5 6 7 - whole week
 1 2 3 4 5 - weekdays
 6 7 - weekends
 1 - each day separately

Set the program start time:



Select the operating mode.







Repeat steps 5 – 10 to set time and temperatures for next time ranges. No hour (—:—) on the display means whole day is planned already.

Schedule can be divided into maximum 6 time ranges.

NSB function – automatic mode

The NSB (Night SetBack) function can automatically change temperatures on VS35 daily thermostats via VS30 programmable thermostat connected to a wiring centre (or another external clock). NSB function switches

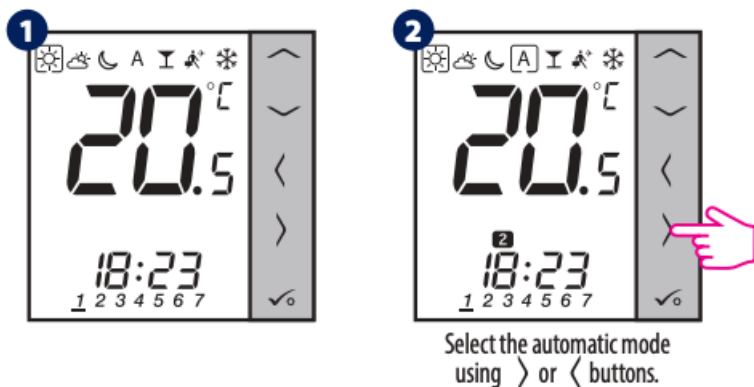
between comfortable temperature  and economic temperature .

To activate the automatic mode, select the  icon. On display together with the  icon, the controller indicates active temperature mode:  or .

Note: For the NSB function to work, it is necessary to connect the wirings properly. Connection diagrams can be found on the previous page.



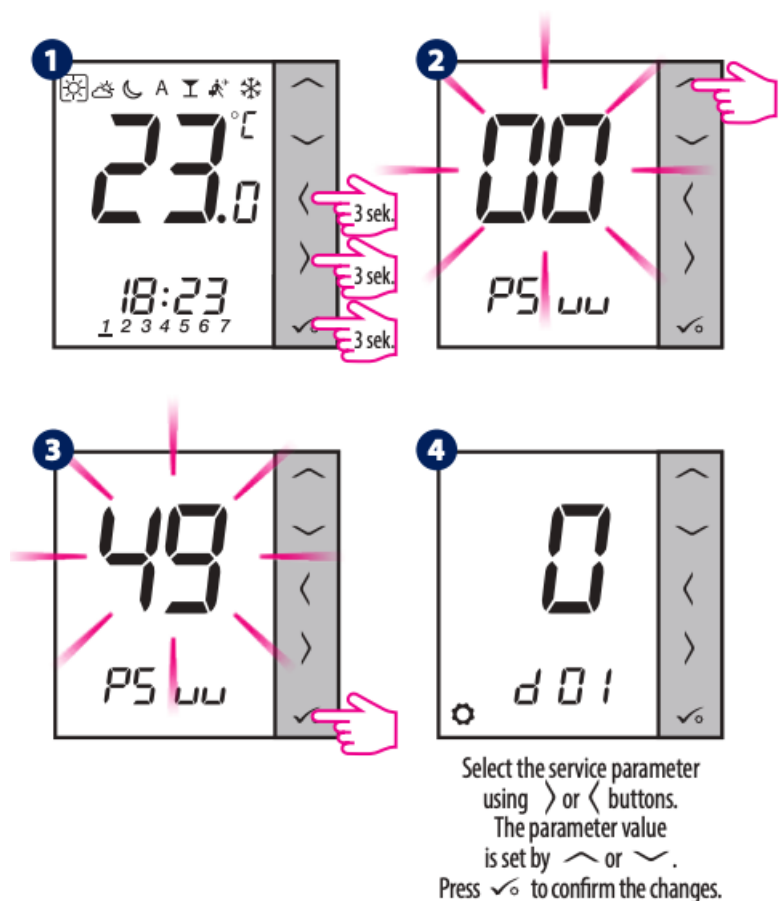
Press any button to highlight the screen, then follow the steps below:



Installer settings



Press any button to highlight the screen, then follow the steps below:



Note: To restore the **thermostat's factory settings**, in step 2 set the PSuu to 47 code, and confirm the selection with the button.

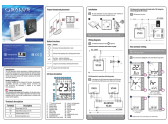
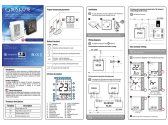
dxx	Function	Value	Description	Default value
d01	Control method temperature	0	PWM algorithm	0
		1	Span $\pm 0.5^{\circ}\text{C}$	
		2	Span $\pm 1.0^{\circ}\text{C}$	
d02	Offset temperature	from -3.0°C to $+3.0^{\circ}\text{C}$	If the thermostat indicates wrong temperature, you can correct it by $\pm 3.0^{\circ}\text{C}$	0°C
d03	Using a floor temperature sensor (S1, S2)	0	No sensor	0
		1	Sensor is connected	
d04	External sensor used for air or floor temperature measurement (Function is active, when d03=1)	0	Thermostat measures the temperature only on the external sensor	0
		1	The sensor is used as a protection against overheating the floor	
d05	Cooling mode control method	1	Span $\pm 0.5^{\circ}\text{C}$	2
		2	Span $\pm 1.0^{\circ}\text{C}$	
d06	Type of thermoelectric actuator	0	NO - normally open	1
		1	NC - normally closed	
d07	Valve protection	0	OFF	1
		1	ON	

d08	Frost protection temperature	5-17°C	Frost protection / Holiday mode temperature	5°C
d09	Clock format	0	12 hour	1
		1	24 hour	
d11	Daylight Saving Time	0	OFF	1
		1	ON	
d12	Heating temperature limit	5-35°C	The maximum heating temperature that can be set by the user	35°C
d13	Cooling temperature limit	5-40°C	The minimum cooling temperature that can be set by the user	5°C
d14	Maximum floor temperature (this function is active in heating mode when d04 = 1)	6-45°C	In order to protect the floor from overheating, heating will be turned OFF, when the maximum temp. of the floor sensor will be reached	27°C
d15	Minimum floor temperature (this function is active in heating mode when d04 = 1)	6-45°C	In order to protect the floor, heating will be turned ON, when the minimum temp. of the floor sensor will be reached	10°C
d16	Lower floor temperature limit for cooling (this function is active when d04 = 1)	6-45°C	In order to protect the floor, cooling will be turned OFF, when the minimum temp. will be reached	6°C
d17	Choice of the default program	1-5	Selection 1 of the 5 default programs	1
d18	Operating mode HEATING / COOLING	0	Heating system	0
		1	Cooling system	

Error codes

Error code	Description
Err02	The maximum / minimum floor temperature has been exceeded
Err03	Temperature sensor is faulty
Err04	Temperature sensor is shorted

Documents / Resources

	<p>SALUS VS30B Programmable Wired Thermostat with Digital Display [pdf] Installation Guide</p> <p>e</p> <p>VS30W, VS30B, VS30B Programmable Wired Thermostat with Digital Display, Programmable Wired Thermostat with Digital Display</p>
	<p>SALUS VS30B Programmable Wired Thermostat [pdf] Installation Guide</p> <p>VS30B Programmable Wired Thermostat, VS30B, Programmable Wired Thermostat</p>

References

-  [SALUS Controls - intelligent temperature control](#)
-  [Salus – Smart Technology for your comfort](#)