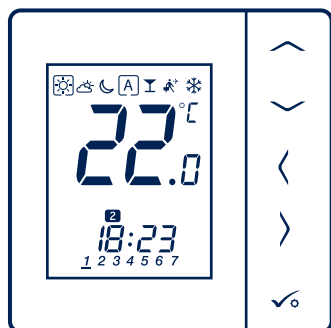




VS30W
**DIGITAL PROGRAMMABLE
THERMOSTAT**
QUICK GUIDE



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Introduction

The VS30 thermostat is used to manage the temperature in separate rooms or areas of a water-based underfloor or surface heating system. These systems warm up and cool down slowly, so precise control is important. The VS30 helps keep rooms comfortable while avoiding unnecessary heating by automatically lowering the temperature when full heating is not needed. It can help reduce energy use and heating costs, making everyday operation easier and more efficient. The full version of the user manual is available in PDF format on www.saluscontrols.com.

Product Compliance

This product complies with the essential requirements and other relevant provisions of Directives GPSR 2023/988/EU, EMC 2014/30/EU, LVD 2014/35/EU and RoHS 2017/2102/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com

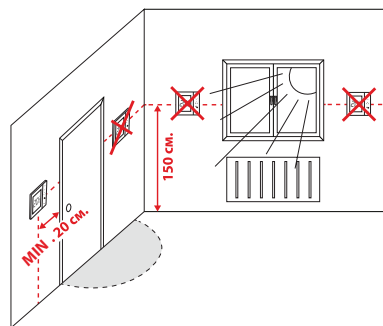
Safety Information

Use in accordance with 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 with national and EU regulations.

Electrical connections

Terminal	Description
L, N	Power supply 230V AC
NSB	Night Set Back function (230V output)
SL	Output signal 230V AC
S1, S2	Additional temperature sensor

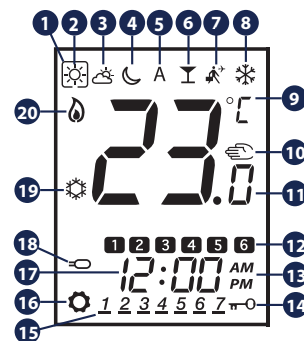
Thermostat placement



Button functions

Button	Function
Up/Down arrow	Increases/decreases the set temperature, values
Left/Right arrow	Selects the operating mode model, switching between values
Checkmark	Short press - confirm selection Hold down - enter/exit the menu
Up/Down arrow + Checkmark	Holding down the buttons locks or unlocks the keypad
Checkmark + (+)	Holding down the buttons enters the installer mode

Icons description

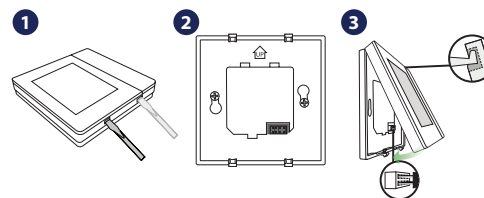


- | | | |
|---------------------|--|-----------------------------------|
| 1. Active mode | 9. Temperature unit | 15. Day of the week |
| 2. Comfort mode | 10. Manual mode / temperature override | 16. Settings |
| 3. Standard mode | 11. Current/set temperature | 17. Time |
| 4. Economy mode | 12. Program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

Installation

The VS30 thermostat is designed for flush mounting in a standard 60 mm diameter electrical box.

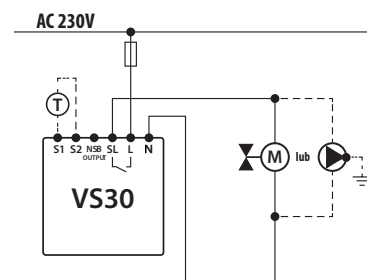
Use the VS30 back plate only with this thermostat model.



Electrical diagrams

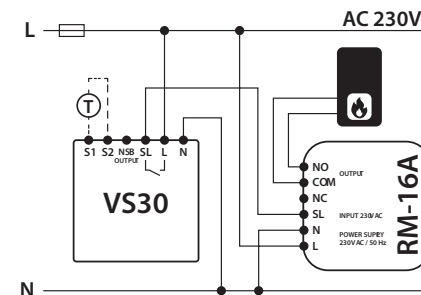
An additional temperature sensor (T) is optional.

Connecting the VS30 controller to an actuator or pump



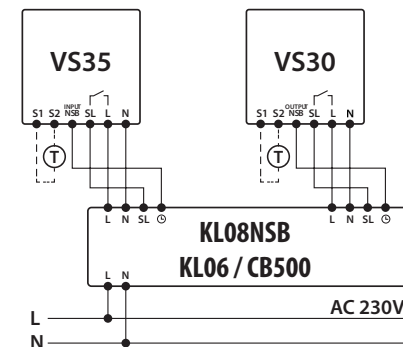
Connecting the VS30 controller to a boiler with a NO voltage-free contact via an RM-16A relay

The NSB function is inactive.



Connecting the VS30 thermostat to the control unit

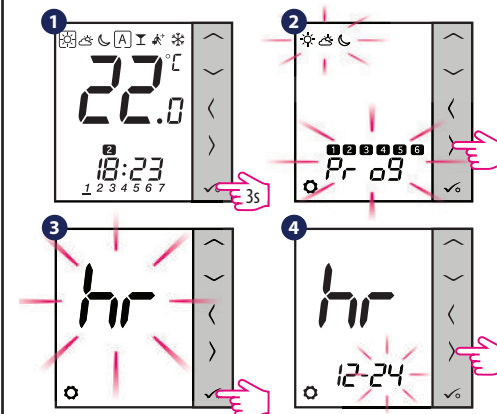
More details about the NSB function can be found on the next page.



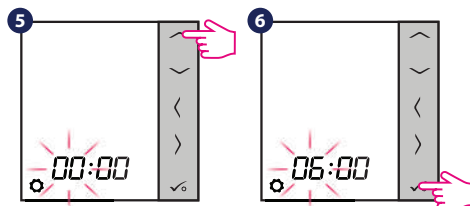
Setting the time and date

During the first start-up, the controller will automatically start the time and date setting - in this case, start the setting from step 4.

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



Select the time format using > or < buttons. Confirm by pressing the checkmark button.



Use the buttons < or > to set the time.

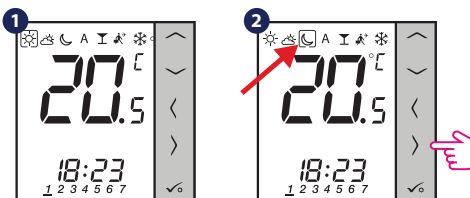
Save your settings by pressing the ✓ button.

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

Thermostat modes and temperature setting

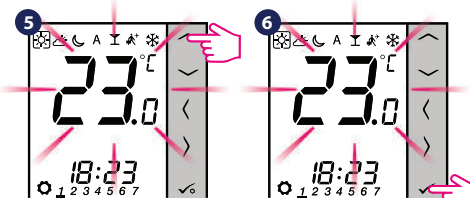
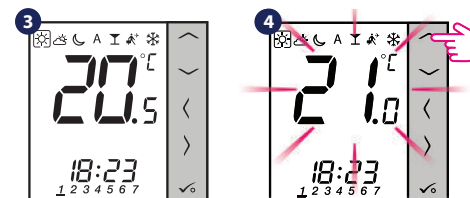
Press any button to light up the screen, then follow the steps below:

There are 4 manual modes available - comfort, standard, economy and frost protection. In manual mode, only one temperature level is used around the clock. The □ icon indicates which mode is currently active. A different temperature can be set for each of the four levels.



Use the buttons > or < to navigate the different mode options.

You can now proceed with setting the temperature using the < or > buttons. Confirm your selection using the ✓ button.



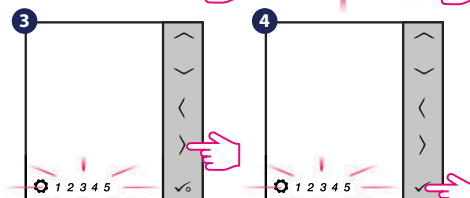
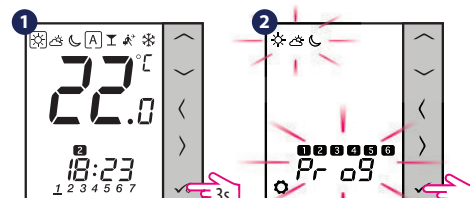
Description of each thermostat mode

(as they appear on the screen - left to right)

- Comfort mode
- Standard mode
- Economy mode (when this mode is selected, 230 V AC appears at the NSB output)
- Automatic mode - the display shows the active temperature mode alongside the [A] icon: or
- Party mode sets a comfortable temperature by the user (maximum 9 hours 50 minutes).
- Holiday mode sets the frost protection temperature for a time defined by the user (maximum 99 days).
- Frost protection mode - usually used during longer periods of absence or during holidays (available only in heating mode).

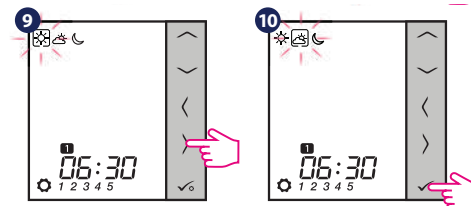
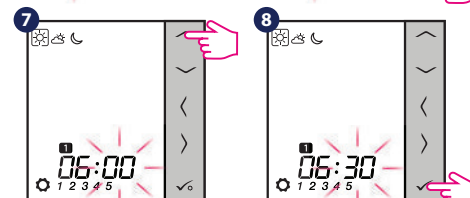
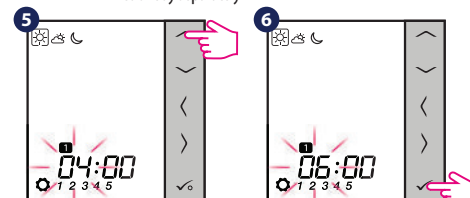
Setting the schedule

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

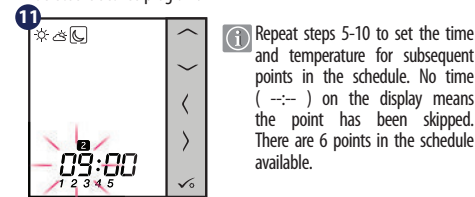


Using the > button, select range of days of the week:

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



Select the desired program.



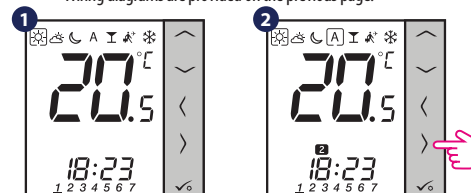
Repeat steps 5-10 to set the time and temperature for subsequent points in the schedule. No time (---) on the display means the point has been skipped. There are 6 points in the schedule available.

Night Set Back (NSB) function

The NSB (Night Set Back) function allows you to automatically lower the set temperature on VS35 thermostats via a VS30 programmable thermostat connected to a control unit (or another unit). The temperature is changed between the comfort temperature and the economy temperature .

Select the [A] icon to activate the automatic mode. The display shows the active temperature mode alongside the [A] icon: or .

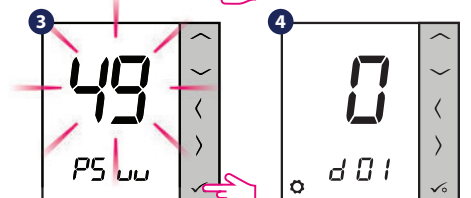
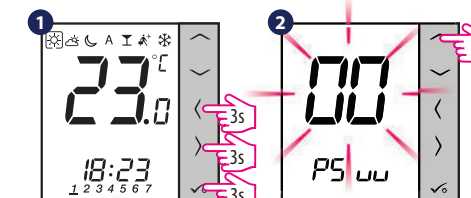
Proper wiring is required for the NSB function to work. Wiring diagrams are provided on the previous page.



Select automatic mode using > or <.

Service parameters

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



dx	Function	Value	Description	Default value
d01	Temperature control method	0	PWM algorithm	0
		1	Hysteresis $\pm 0.25^{\circ}\text{C}$	
		2	Hysteresis $\pm 0.5^{\circ}\text{C}$	
d02	Calibration of temperature readings	from -3°C to $+3^{\circ}\text{C}$	Incorrect temperature, (it can be corrected by $\pm 3.0^{\circ}\text{C}$)	0°C
d03	Use of floor temperature sensor S1, S2	0	No sensor	0
		1	Sensor connected	
d04	External sensor used to measure air or floor temperature (Function active when d03=1)	0	The VS30 measures the temperature only at the external sensor.	0
		1	The sensor is used as protection against floor overheating.	
d05	Cooling system inspection method	1	Hysteresis $\pm 0.5^{\circ}\text{C}$	2
		2	Hysteresis $\pm 1.0^{\circ}\text{C}$	
d06	Type of thermoelectric actuator	0	NO - normally open	1
		1	NC - normally closed	
d07	Valve protection	0	Disabled	1
		1	Enabled	
d08	Frost protection temperature	$5-17^{\circ}\text{C}$	Frost protection temperature and holiday mode	5°C
d09	Time format	0	12 hours	1
		1	24 hours	
d11	Daylight savings time	0	OFF	1
		1	ON	
d12	Heating temperature limit	$5-35^{\circ}\text{C}$	Maximum heating temperature that can be set by the user	35°C
d13	Cooling temperature limit	$5-40^{\circ}\text{C}$	Minimum heating temperature that can be set by the user	5°C
d14	Maximum floor temperature (Function active in heating mode when d04=1)	$6-45^{\circ}\text{C}$	To protect the floor from overheating, heating will be turned off when the maximum temperature of the floor sensor is reached.	27°C
d15	Minimum floor temperature (Function active in heating mode, when d04=1)	$6-45^{\circ}\text{C}$	To protect the floor, heating will be activated when the minimum temperature of the floor sensor is reached.	10°C
d16	Lower floor temperature limit for cooling (Function active when d04=1)	$6-45^{\circ}\text{C}$	To protect the floor, cooling will be disabled when the minimum temperature is reached.	6°C
d17	Selecting the default program schedule	1-5	Select one of the 5 default programs	1
d18	Operating mode HEATING / COOLING	0	Heating system	0
		1	Cooling system	

Error codes

Error	Description
Err02	Maximum/minimum floor temp reached
Err03	Damaged temperature sensor
Err04	Short circuit on temperature sensor