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In accordance with the product development policy, SALUS Controls plc reserve the right to change specifications, design, and materials used in production presented in this manual, without prior notice.

Introduction

The HTRS230V(30) from SALUS Controls is a digital, wired and surfacemounted (or on a flush-box) non programmable room thermostat, dedicated for surface heating / cooling control, characterized by high thermal inertia. It is connected to the wiring centre. The thermostat does not have the function of creating schedules - it lowers the set temperature via wiring centre after receiving the NSB signal from the weekly thermostat. Thanks to the built-in algorithms, it offers much better temperature control accuracy than traditional mechanical thermostats. The thermostat is characterized by silent operation. The controller is characterised by silent operation.

Product compliance

The product complies with the following EU directives: 2014/30/EU, 2014/35/EU, 2011/65/EU. Full information is available at www.saluslegal.com



This document is a quick quide to the installation and operation of the product and indicates its main features and functions. Detailed informations are in the full manual, which is available at www.saluscontrols.eu and which must be used for proper installation and operation of the product.

Safety informations:

Use in accordance with national and EU regulations. Use the device as intended and keep it dry. Product for indoor use only. Please read the entire manual before starting the installation and using the product.

Installation:

Installation must be carried out by a qualified person, with appropriate electrical authorisations, in accordance with national and EU standards and regulations. The manufacturer shall not be liable for failure to comply with the manual.

NOTE:

There may be additional protection requirements for the entire installation. The installer shall be responsible for compliance with such requirements.

Package content





Front housing of the thermostat

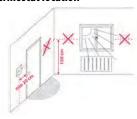




User manual

Mounting screws

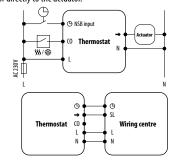
Proper thermostat location



The ideal position to thermostat mounting is about 1,5m under floor level far from heating or cooling sources. In addition, the thermostat should not be installed behind curtains or other obstacles or in places with high humidity, as this will prevent accurate measurements of room temperature. The thermostat must not be exposed to sunlight. Do not place the thermostat on an outer wall.

Connection description

Note: The thermostat is compatibile with the following Salus wiring centre models: KLO6 230V, KLO8NSB 230V, KLO4NSB 230V or directly to the actuator.



Symbols explanation

	-
Terminal Description	
L, N	Power supply (230V AC)
⊕NSB	Night temperature reduction (230V output)
→ SL	230 V AC output signal 230V AC
CO	Switching jumper between heating and cooling (input 230V AC)

Note: The following designations are used interchangeably for products: → = SL → = NSB

Montage





Make sure that the thermostat is not connected to the 230V AC. Then open the front housing using a screwdriver as shown above.



Connect the thermostat properly. Please refer to the "Connection description" section. Mount the thermostat using the designed screw holes.

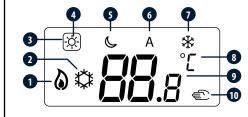


Slide the thermostat on the back cover. The thermostat is configured for operation. Use buttons to set the temperature setpoint.

Button functions

^ >	Increase /or decrease setpoint temperature setpoint or value	
<		
>	Mode selection	
%	Short press to confirm selection Press and hold — enter / exit the menu	

LCD icon description



- 1. Heating mode
- 2. Cooling mode
- 3. Active work mode
- 4. Comfort temperature mode 5. Economic temperature mode
- 9. Current / set temperature
 - 10. Manual mode / temp. override

7. Frost protection mode

8. Temperature unit

6. AUTO mode

Manual mode – temperature setpoints

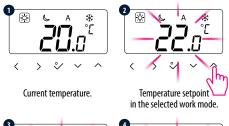
- 3 temperature levels are available. In manual mode, only one temperature level is maintained for the entire day. Icon in the frame indicates which mode is currently active. A different temperature can be set for each level.
- Comfort temperature mode
- Economic temperature mode
 - Frost protection mode Usually used during the period of longer absence, or during the holidays (only available in HEATING
 - Press any button to highlight the screen, then follow the steps

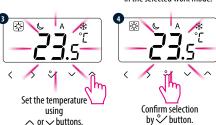


Select the temperature mode using < or > buttons.

Temperature setpoint

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





AUTO mode – NSB function

The O NSB (Night Setback) function enables automatic reduction of the temperature setpoint on the HTRS230(30) SLAVE thermostat, via the HTRP230(50) programmable MASTER thermostat connected to the wiring centre (or other external clock). The temperature change takes place between the comfort temperature mode (3) and economic (4) temperature mode.

To activate AUTO mode, select the A icon. Together with the A icon, the thermostat shows the active temperature mode on the display: or 🕒.



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





Select AUTO mode using



Note:For the proper NSB function work, an appropriate cable connection is required. The connection description is on the previous page.

Calibration of displayed temperature - "offset" function

The thermostat allows to correct the displayed temperature by ± 3.0 °C. Follow the steps below:



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





Press and hold \checkmark button to enter the menu.

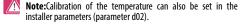
Confirm "offset" setting by vbutton.





Set the temperature calibration value using ✓ or ∧ buttons.

Temperature calibration can be made in the range from -3.0°C to +3.0°C. Confirm the selected value by 💸 button.



Heating / Cooling mode

Manual change: Modes are indicated by symbols.

Press and hold ♥ button to enter the menu, then use > button to select the Heating / Cooling mode change setting. Confirm changes using $\stackrel{\circ}{\checkmark}$ button. Now use \checkmark or \land buttons to set the heating or cooling mode. Confirm by 💸 button.

Automatic change (via CO terminal):

The heating/cooling mode can be changed automatically via the CO terminal in the thermostat. If 230 V AC power supply is connected to the CO terminal – then thermostat automatically switches to cooling mode. If you want to use this function, then you have to change the value of the d18 parameter to "1".

Cooling blocking:

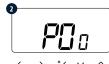
When D19 thermostat parameter is set to "1", then cooling is blocked for a single room. When the cooling function is blocked, no message is displayed.

Installer mode



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







Press and hold \leq and \wedge

buttons simultaneously for

3 seconds.

Select the 47 code using \checkmark or \land buttons.







You are now in the installer menu.

Confirm by [⋄]✓ button.

Select the parameter you wish to change by < or > buttons and enter using \checkmark button. Use \checkmark and \land to set the value of the parameter, and then confirm it with $^{\circ}$.

Installer parameters

	Function	Param- eter	Description	Default
	runction	Values	Description	Values
		0	According to the PWM algorithm	0
d01	Heating Control	1	Hysteresis: 0.5 °C (± 0.25 °C)	
		2	Hysteresis: 1.0 °C (± 0.5 °C)	
d02	Displayed temperature correction	from -3.0°C to +3.0°C	If the thermostat indicates an incorrect temperature, then it can be corrected ±3.0°C	0.0°C
d05	Cooling Control	1	Hysteresis: 0.5 °C (± 0.25 °C)	2
	Cooling Control	2	Hysteresis: 1.0 °C (± 0.5 °C)	
d07	Valve Protection	0	Disabled	1
uor		1	Enabled	'
d08	Frost protection setpoint	5.0 – 17.0℃	The frost protection temperature is maintained for example during active holiday mode.	5.0℃
d12	Heating setpoint limits	5.0 − 35.0°C	Maximum temperature which can be set for heating	35.0℃
d13	Cooling setpoint limits	5.0 − 40.0°C	Minimum temperature which can be set for cooling	5.0℃
410	Heat/Cool Mode	0	Manual by buttons use	0
d18	Selection	1	Automatic by the CO terminal	
d19	Cooling Blocking	0	Cooling allowed	0
u 17	function	1	Cooling disabled	
d20	Actuators loading selection for different temperature compensation	0 – 5	Numbers 1 to 5 are the numbers of actuators con- nected to the thermostat.	0

Factory reset

If you made a mistake, want to change the thermostat parameters or return to factory settings, follow the steps below.



Note:This action will permanently delete all current settings.



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





Press and hold < and ^ buttons simultaneously for 3 seconds.

Select the 49 code using \checkmark or ∧ buttons.





Confirm by $\stackrel{\circ}{\checkmark}$ button.

Press V button to reset the

