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Computime

www.salus-controls.eu

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EAL CEX

Introduction

The HTRP230V(50) from SALUS Controls is a stylish and accurate 5/2 or 24h programmable electronic thermostat with a large, easy to read Liquid Crystal Display (LCD). It is surface-mounted temperature controller dedicated for surface heating / cooling, characterized by high thermal inertia. It is connected to the wired wiring centre KLOBNSB. Thermostat has the function of creating your own schedules. It can control group (SLAVE) thermostats - via wiring centre it sends them an NSB (nighttime temperature reduction) signal and switches them to economic temperature. The time schedule is common to all thermostats (according to weekly (MASTER) thermostat), but temperatures are set individually on each 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

Please note!

This document is a quick guide 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.





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.





Terminal	Description			
L, N	Power supply (230V AC)			
() NSB	Night setback (input temperature reduction (230V ACoutput)			
→ SL	230 V AC output signal			
S1, N	Additional temperature sensor eg. FS300			
C0	Switching jumper between heating and cooling (input 230V AC)			
Note: The following designations are used interchangeably for products: $\Rightarrow = SL$ $\oplus = NSB$				







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 and $\overline{(x)}$ economic $\overline{(x)}$ temperature mode.

To activate AUTO mode, select the \bigcirc icon. Together with the \bigcirc icon, the thermostat shows the active temperature mode on the display: or C.

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





for further points of the schedule. No time (--:--) on the display means that thermostat will skip the time interval. 6 points are available for the schedule.

Repeat steps 4 to 6 to set the time and temperature

Heating / Cooling mode

button.

Manual change: Manual change: Modes are indicated by symbols.

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

Coolina blockina:

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 below:
- ₩ L A I # * **PC**₀ < > % > վեղ .lm 3 sec. Press and hold \leq and \land Select the 49 code using buttons simultaneously for $\sqrt{\text{or}}$ or $\sqrt{\text{buttons}}$ 3 seconds.

>

by ॐ button.

* × ^ You are now in the installer Jm Confirm selection

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

menu.

Note: To restore default settings – set the P47 code during 2 step and then confirm your choice using or $\stackrel{\circ}{\sim}$ buttons.

Installer parameters

dxx	Function	Parameter Values	Description	Default Values
d01	Heating Control	0	According to the PWM algorithm	0
		1	Hysteresis 0.5°C (±0.25°C)	
		2	Hysteresis 1.0°C (±0.5°C)	
D02	Displayed temperature correction	-3.0°C to + 3.0°C	If the thermostat indicates an incorrect temperature, then it can be corrected ±3.0°C	0°C
	External sensor	0	External sensor not connected	0
D03	connection (S1/S2)	1	External sensor connected	
d04	External sensor used as Air sensor or Floor	0	The D03 parameter must be set to "1" – then, if the D04 parameter is set to "0", the thermostat only measures the temperature at the external sensor	0
	sensor	1	The D03 parameter must be set to "1" — then, if the D04 parameter is set to "1", the sensor is used as floor overheating protection.	
D05	Cooling Control	1	Hysteresis 0.5°C (±0.25°C)	2
UUS		2	Hysteresis 1.0°C (±0.5°C)	
D07	Valve Protection	0	Disabled	1
		1	Enabled	
D08	Frost Setpoint	5℃ – 17℃	The frost protection temperature is maintained for example during active holiday mode.	5℃
DOO	12/24 Hour Format	0	12 hours	1
D09		1	24 hours	1
D10	Time zone (reserved for internet wireless)	from -13 to +13 hours	It gives you the possibility to fit the thermostat time zone to yours (every 1 hour step).	0
D11	Daylight Saving Time (DST)	0	Off	1
		1	On	I
D12	Heating setpoint limits	5°C – 35°C	Maximum temperature which can be set for heating	35℃
D13	Cooling setpoint limits	5°C – 40°C	Minimum temperature which can be set for cooling	5℃
D14	Floor sensor protection limit (heating high limit-HL)	11°C – 45°C	In order to protect floor againts overheating — heating will be turned off when floor sensing temp is higher than protection limit	27°C
D15	Floor sensor protection limit (heating low limit-LL)	6°C – 40°C	In order to protect floor againts overcooling – heating will be turned on when floor sensing temp is lower than protection limit	10°C
D16	Floor sensor protection limit (cooling)	6°C – 45°C	In order to protect floor againts overcooling – heating will be turned on when floor sensing temp is lower than protection limit	6°C
D17	Preset program selection	1-5	Select one of these 5 default programs. Once selected, default program will overwrite present program. Selected default program can be edited by the user in the User Setting Mode.	1
D18	Heat/Cool Mode Selection	0 or 1	0: Manual with buttons use 1: Automatic by the CO terminal	0
D19	Cooling Blocking function heating / cooling	0 or 1	0: Cooling disabled 1: Cooling allowed	0
D20	Actuators loading selection for different temperature compensation	1 to 5	Numbers 1 to 5 are the numbers of actuators connected to the thermostat.	1