SALUS CONTROLS Wired Digital Thermostat Model: HTRP230



INSTALLER MANUAL

Contents of the box

Icons used in this manual:







Important info



Your benefit

Manual Contents:

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HRTP230 Thermostat







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Product Compliance and Safety Info

(i) Product Compliance

SALUS Controls hereby declares that the product complies with the essential requirements of the following EC Directives: 2014/30/EU, 2014/35/EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com.

Safety Information

Use in compliance with safety regulations. The unit is to be used for the control of room temperature inside the house.



This accessory 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 relevant standards could lead to prosecution.

Product Description

Thank you for purchasing the Salus HTRP230 Thermostat. This thermostat is a device that lets you customize the heating and cooling of your home as needed.

The HTRP230 device from Salus Controls is a stylish and accurate digital room thermostat that is fitted with a large easy to read LCD screen and one touch buttons. You can now simply adjust your home temperature as desired in order to create a comfortable home environment.

We hope you enjoy our product.

Installing the unit

Install the HTRP230 digital room thermostat roughly about 1.5m above floor level. It should be mounted in a location where the thermostat is easily accessible and away from direct sunlight. You can mount the thermostat directly on the wall or you can install it on top of a wall-box.

1. Mounting the Thermostat





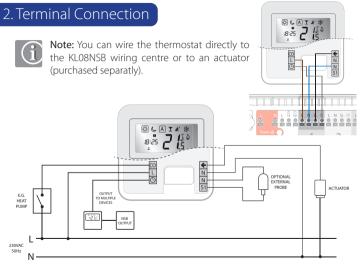
Gently remove front housing.



Without floor sensor



With floor sensor



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3. Thermostat Icons

	BOX means to select mode. e.g. ❀ means Hi temp is selected ☆ means the Hi temp is not selected.
- X	Sunny: Hi comfortable temperature
Ċ	Moon: Low comfortable temperature
A	Indicates AUTO ON or AUTO OFF
Ĭ	Indicates that the Party Mode is active
Å *	Indicates that the Holiday Mode is ON.
*	Frost Protection Indicator: Frost protection is active, not available in cooling mode.
۵	Heat Mode indicator: Indicates heating is running

4. Thermostat Icons Continued

\	Cool Mode indicator: The icon is flashing when cooling mode is active
88 .š	Temperature indicator • Display the room temperature • Display the set temp
Ē	Temporary override indicator: The hand will appear until the next programs starting time.
123456	Programs number indicator.
88:88#	Indicates the time.
1234567	Indicates the the day of the week

5. Button Functions

<	Mode selection. Long press to return home without saving.
\checkmark	OK key. Short press to confirm selection. Long press to save and return home. Long press to enter Temperature offset Heat/Cool.
	Decrease or increase Setpoint Temperature.

Note: LCD backlight is activated by pressing any key.

6. Setting Date and Time

When you first power up your device you will have to set up the date and time.



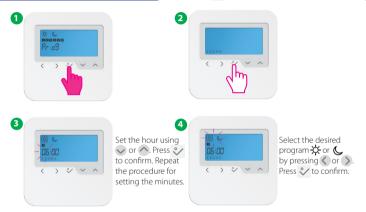




6. Setting Date and Time



You can customise your programs by long pressing \checkmark when on the program screen.



Note: If you want to select another Program Profile (from the available 5), please enter in Installer Mode, choose option d17 and after that select the desired program.

You can select and customise any of the following programs:

5 days (Monday to Friday)				
Program	Program Time	Heat set point	Cool set point	
1	6:00	Sunny	Sunny	
2	9:00	Moon	Moon	
3	16:00	Sunny	Sunny	
4	23:00	Moon	Moon	
5	:	:	:	
6	:	:	:	

2 days (Saturday to Sunday)				
Program	Program Time	Heat set point	Cool set point	
1	7:00	Sunny	Sunny	
2	23:00	Moon	Moon	
3	:	:	:	
4	:	:	:	
5	:	:	:	
6	:	:	:	

5 days (Monday to Friday)				
Program	Program Time	Heat set point	Cool set point	
1	6:00	Sunny	Sunny	
2	22:30	Moon	Moon	
3	:	:	:	
4	:	:	:	
5	:	:	:	
6	:	:	:	

2 days (Saturday to Sunday)			
Program	Program Time	Heat set point	Cool set point
1	7:00	Sunny	Sunny
2	23:00	Moon	Moon
3	:	:	:
4	:	:	:
5	:	:	:
6	:	:	:

5 days (Monday to Friday)				
Program	Program Time	Heat set point	Cool set point	
1	5:00	Sunny	Sunny	
2	8:00	Moon	Moon	
3	14:00	Sunny	Sunny	
4	22:00	Moon	Moon	
5	:	:	:	
6	:	:	:	

2 days (Saturday to Sunday)				
Program	Program Time	Heat set point	Cool set point	
1	7:30	Sunny	Sunny	
2	22:30	Moon	Moon	
3	:	:	:	
4	:	:	:	
5	:	:	:	
б	:	:	:	

5 days (Monday to Friday)			
Program	Program Time	Heat set point	Cool set point
1	6:00	Sunny	Sunny
2	9:00	Moon	Moon
3	15:00	Sunny	Sunny
4	22:30	Moon	Moon
5	:	:	:
6	:	:	:

2 days (Saturday to Sunday)			
Program	Program Time	Heat set point	Cool set point
1	7:30	Sunny	Sunny
2	23:00	Moon	Moon
3	:	:	:
4	:	:	:
5	:	:	:
б	:	:	:

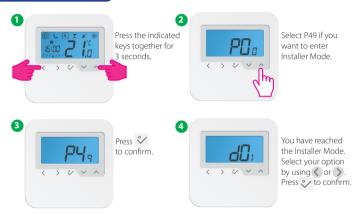
5 days (Monday to Friday)			
Program	Program Time	Heat set point	Cool set point
1	6:00	Sunny	Sunny
2	10:00	Moon	Moon
3	16:00	Sunny	Sunny
4	23:00	Moon	Moon
5	:	:	:
6	:	:	:

2 days (Saturday to Sunday)				
Program	Program Time	Heat set point	Cool set point	
1	7:30	Sunny	Sunny	
2	23:30	Moon	Moon	
3	:	:	:	
4	:	:	:	
5	:	:	:	
б	:	:	:	

8. How to reset the thermostat



9. Installer Mode



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Note: This function allows you to customise your thermostat as you desire. In order to do this please consult the tables on the next pages.

10. Functions explained

dxx	D setting function	Parameter/ Values	Definition	Default value
d01 Heating Control	0	PWM (Pulse-width modulation)		
	1	ON-OFF: 0.5C (± 0.25°C)	0	
	2	ON-OFF: 1.0C (± 0.5°C)		
d02	Room temp. offset	-3.0°C to + 3.0°C	Offset room temp measuring error (in 0.5°C)	0.0°C
102 0117	0	Out sensor probe not connected	0	
003	d03 OUT sensor probe (S1/S2)	1	Out sensor probe connected	0
		0	A: if $d03 = 0$, IN sensor controls Tr	0
d04 Air sensor or Floor sensor		A: if $d03 = 1$, IN disabled and OUT controls Tr		
	1	F: if $d03 = 0$, IN sensor controls Tr		
		F: if $d03 = 1$, IN disabled and OUT controls Tr Floor Protection		
d05 Cooling Control	1	ON-OFF: 0.5°C (± 0.25°C)	2	
	2	ON-OFF: 1.0°C (± 0.5°C)	Z	
d07	Valve Protection	0/1	0 = VP disabled $1 = Enable$	1
d08	Frost Setpoint	5℃-17℃		5.0°C

10. Functions explained

60b	12/24 Hour Format	0	12hr	1
009 12/24 Hour Format		1	24hr	'
d11	Daylight Saving Time	0	Off	1
	(DST)	1	On	'
d12	Maximum limitation of	5°C - 35°C		35°C
	heating setpoint			
d13	Maximum limitation of	5°C - 40°C		5°C
	cooling setpoint	5°C - 40°C		
d14	Floor sensor protection limit	1106 4506	Turn off relay output when floor sensing temp $>$	2700
	(heating high limit-HL)	11ºC - 45ºC	protecting limit, step is 0.5°C	27ºC
d15	Floor sensor protection limit	6°C - 40°C	Turn on relay output when floor sensing temp <	10°C
	(heating low limit-LL)		protecting limit, step is 0.5°C	
d16	Floor sensor protection limit	606 AF-6	Turn off relay output when floor sensing temp <	606
	(cooling)	6°C - 45°C	protecting limit, step is 0.5°C	6°C

10. Functions explained

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: No connection 1: Connection	0
d19	Cooling Blocked	0 or 1	0: Cooling allowed 1: Cooling disabled	0
d20	Actuators loading selection for different temperature compensation.	1 to 5	1: x 1 actuator loading 2: x 2 actuators loading 3: x 3 actuators loading 4: x 4 actuators loading 5: x 5 actuators loading	1

11. Cooling Blocked

When When the thermostat is set on Cooling Disabled (d19-->1) it will block the cooling function for single rooms until the device will receive the heating command. During the periods of cooling blocked no special indicator will be displayed on the LCD screen. Ice flake will also be turned off.



Note: d19 will be available only if d18 is set on 1 (Heat/Cool Mode selection Connected).

12. Party Mode



Press 🔇 or 义 to select Party Mode.



Press or to select the time for Party Mode.

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The maximum time allowed on the Party Mode is 9 h 50 min and can be set from 0-10 min. If you want to exit Party Mode, press 🔇 or 📎 to move the 🔤 (box) to a different program. Once Party Mode ends the countdown automatically resets to 0.

13. Vacation Mode



Press 🔇 or 义 to select Vacation Mode.



Press or to select the number of vacation days.

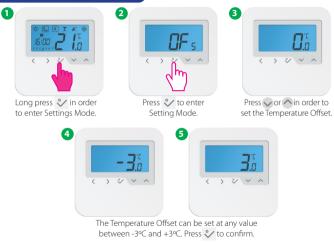


Note: Vacation Modes ends when it reaches day 0. After that the device goes back to Auto Mode.

14. Frost Mode



15. Temperature Offset



Technical Specification

Model:	HTRP230
Voltage	230 V AC, +-10%, 50/60 Hz
Operating performance	230 V: 1,8 W
Temperature setback	Adjustable
Temperature range	5°C − 35°C
Span	+/- 0,5℃
Storage temperature	-20°C to +60°C
Ambient temperature	0 ℃ up to 45 ℃
Degree of protection	IP 30
CE conformity according to	Class II (EN60730)
Housing material	PC, V2
Color	RAL 9010 pure white
Connection	Screw terminal
Weight	125 g net / 170 g gross
Puls-wide-modulation (PWM)	Yes
Clock, Timer	Yes, programmable
Profile Modes	3 (Sun, Moon, Automatic)
Heating and Cooling	Yes, automatically Change Over
	on the Wiring Centre
Parameter adjustment	Yes, in Installer Mode
Dimensions	85mm*85mm*25mm

Warranty

SALUS Controls warrants that this product (HTRP230) 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:	
Post Code:	
Tel No: Email:	
Engineers Company:	
Tel No: Email:	
Instalation Date:	
Engineers Name:	
Engineers Signature:	

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