

MULTI-LANGUAGE
MANUAL



HTRP230 WIRED PROGRAMMABLE DIGITAL THERMOSTAT USER GUIDE

Introduction

The HTRP230 is a programmable electronic room thermostat designed for hydronic underfloor heating and cooling systems. It features a large, easy-to-read LCD display and supports 5/2-day or 24-hour programming. The thermostat is designed for surface mounting and is intended for use with the SALUS KL08NSB wiring centre.

When connected to the KL08NSB, the HTRP230 can operate as a MASTER thermostat, controlling time schedules for multiple SLAVE thermostats. The wiring centre distributes the NSB (Night Setback) signal, allowing connected thermostats to automatically reduce the setpoint temperature during scheduled setback periods while maintaining independent room temperature control.

The thermostat provides precise electronic temperature regulation for improved comfort and energy efficiency. Silent switching technology ensures quiet operation, making it suitable for residential and light commercial applications.

Product Compliance

This product complies with the essential requirements and other relevant provisions of Directives GPSR 2023/988/EU, EMC 2014/30/EU and RoHS 2015/863/EU amendment 2017/2102. REACH law applies only to 251 SVHC 1907/2006. The full text of the EU Declaration of Conformity is available at the following internet address: www.saluslegal.com

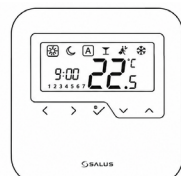
Safety Information

Use in accordance with the regulations. Indoor use only. Keep your device completely dry. Disconnect your device before cleaning it with a dry cloth.

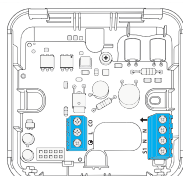
Installation: Installation must be carried out by a qualified person, with appropriate electrical authorisations, in accordance with national and EU standards and regulations. The manufacturer shall not be liable for failure to comply with the manual.

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

Box Content



Front Housing of the HTRP230 thermostat



Back Housing of the HTRP230 thermostat

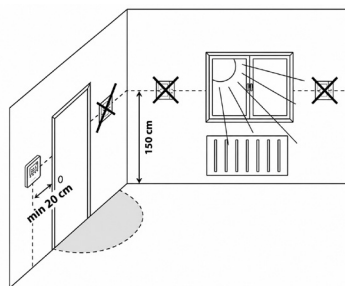


User Guide



2 x Wall Anchors
2 x US Screws

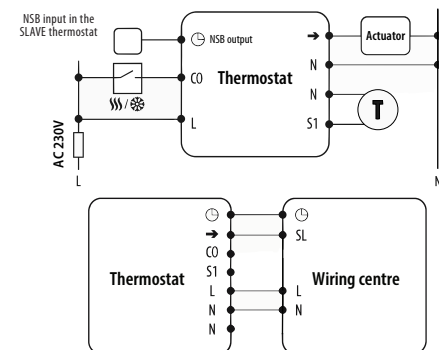
Mounting Location



The ideal position for thermostat mounting is about 1.5 m above floor level, away 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 compatible with the following Salus wiring centre models: KL06 230V, KL08NSB 230V, KL04NSB 230V or directly to the actuator.



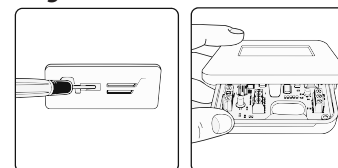
Symbols Explanation

Terminal	Description
L, N	Power supply (230V AC)
NSB	Night setback input temperature reduction (230V AC output)
SL	230 V AC output signal
S1, N	Additional temperature sensor eg. FS300
CO	Switching between heating and cooling (input 230V AC)

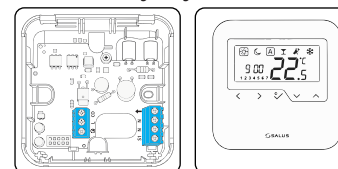
The following designations are used interchangeably for products:

☾ = NSB ➡ = SL

Mounting

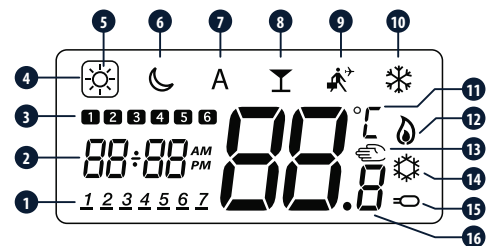


Make sure that the thermostat is not connected to the 230V AC. Then open the front housing using a screwdriver as shown above.



Connect the thermostat properly. Please refer to the "Connection description" section. Mount the thermostat's backplate using the designed screw holes. Attach the front of the controller to the backplate.

LCD Icon Description



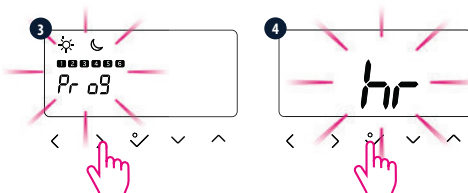
- Day of the week
- Hour
- Program number
- Active work mode
- Comfort mode
- Economy mode
- Auto mode
- Party mode
- Holiday mode
- Frost Protection mode
- Temperature unit
- Heating mode
- Manual mode / Temp. override
- Cooling mode
- Additional temp. sensor
- Current / set temp.

Button functions

⬆	Increase or decrease setpoint temperature
⬇	Mode selection
⬆	Short press to confirm selection Press and hold - enter/ exit the menu

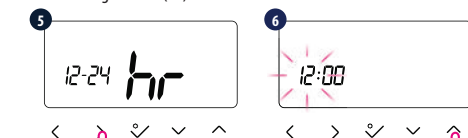
Time and Date setting

Set time and date during the thermostat's first power up



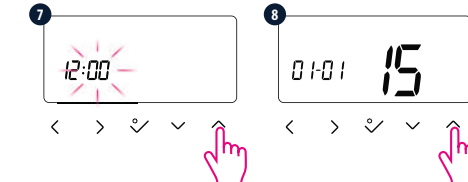
Press > to select the time settings menu (hr)

Press ✓ to confirm.



Press ◀ or ▶ to select a 12 or 24-hour format, then confirm with ✓

Set the time using ▼ or ▲ and then confirm the selection with ✓



Set the minutes using ▼ or ▲ and then confirm with ✓

Set the date (month, day, year) using ▼ or ▲ buttons. Confirm the selection with ✓



Date and time can be set at any moment. Press any button to highlight the screen, then press and hold ✓ for 3 seconds, then follow steps from 3 to 9.

Manual Mode - Temperature Setpoints

Five 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 absence or during the holidays (only available in HEATING mode).

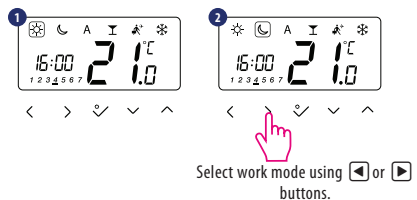


- Party mode sets the comfort temperature for a user-defined time (max. 9 hours 50 minutes)



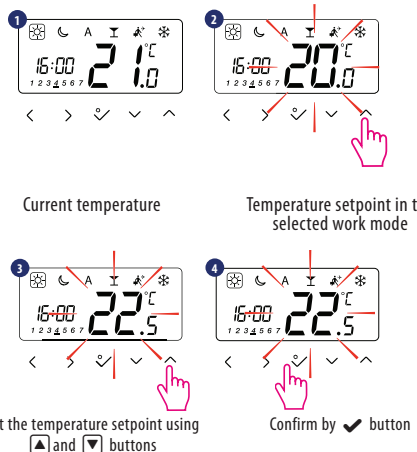
- Holiday mode sets the Frost Protection mode for a user-defined time (max. 99 days)

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



Temperature Setpoint

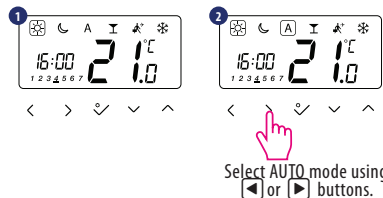
Press any button to highlight the screen, then follow the steps below:



AUTO Mode - NSB function

The NSB (Night Setback) function enables automatic reduction of the temperature setpoint on the HTR5230 SLAVE thermostat, via the HTRP230 programmable MASTER thermostat connected to the wiring centre (or other external clock). The temperature change takes place between the comfort temperature mode and economic temperature mode.

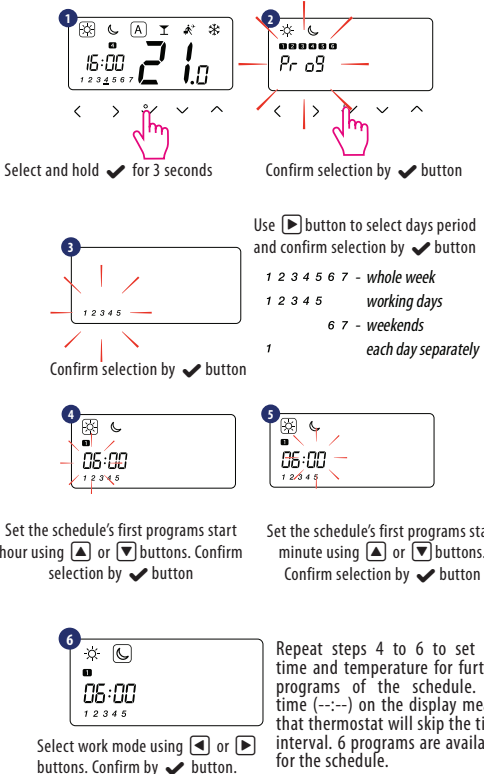
To activate AUTO mode, select the **A** icon. Together with the icon, the thermostat shows the active temperature mode on the display: Comfort or Economic mode



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

Schedule programming

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



Heating / Cooling mode

Manual change - Modes are indicated by and symbols. Press and hold button to enter the menu, then use button to select the Heating / Cooling mode change setting. Confirm changes using button. Now use or buttons to set the heating or cooling mode. Confirm by button.

Automatic change (via CO terminal):

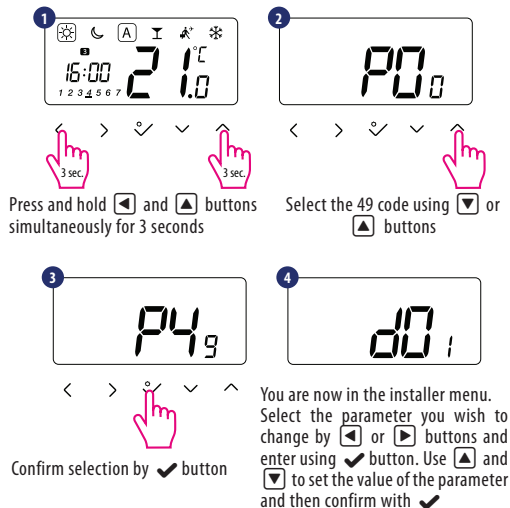
The heating/cooling mode can be changed automatically via the CO terminal in the thermostat. If 230 V AC power supply is connected to the CO terminal – then thermostat automatically switches to cooling mode. If you want to use this function, then you have to change the value of the D18 parameter to "1".

Cooling blocking:

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

Installer Mode

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



Note To restore default settings - set the P47 code at step 2 and then confirm your choice using button.

Installer Parameters

DXX	FUNCTION	PARAMETER VALUE	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
d03	External sensor connection (S1/S2)	0	External sensor not connected	0
		1	External sensor connected	
d04	External sensor used as Air sensor or Floor sensor	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
		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.	

DXX	FUNCTION	PARAMETER VALUE	DESCRIPTION	DEFAULT VALUES
d05	Cooling Control	1	Hysteresis 0.5°C (±0.25°C)	2
		2	Hysteresis 1.0°C (±0.5°C)	
d07	Valve Protection	0	Disabled	1
		1	Enabled	
d08	Frost Setpoint	5°C – 17°C	The frost protection temperature is maintained for example during active holiday mode.	5°C
d09	12/24 Hour Format	0	12 hours	1
		1	24 hours	
d10	Time zone (reserved for Internet WiFi)	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	
d12	Maximum setpoint for heating	5°C - 35°C	To set the parameter, the controller must be in the heating mode	35°C
d13	Maximum setpoint for cooling	5°C - 40°C	To set the parameter, the controller must be in the cooling mode	5°C
d14	Floor sensor protection limit (heating high limit-HL)	11°C – 45°C	In order to protect floor against 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-LI)	6°C – 40°C	In order to protect floor against overheating- heating will be turned off 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 against overheating- heating will be turned off 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 allowed 1: Cooling disabled	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

Manufacturer:

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

Importer:

Salus Controls European Distribution sp. z o.o.
ul. Szamocka 8, piętro 6, 01 748 Warszawa, Poland

UK: tech@salus-tech.com
PL: poland@saluscontrols.com
RO: tehnic@saluscontrols.ro
DK: Support@salus-controls.dk
DE / NL: info@salus-controls.de
FR: technicalsupport@saluscontrols.fr



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06/2026

