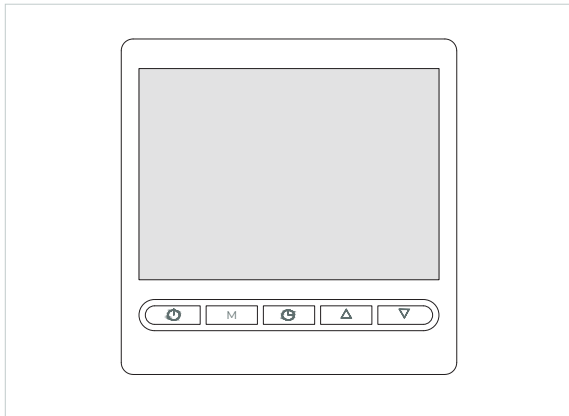# HOR/PRT-230/W Kinetic SD+PD Digital Thermostat

Product overview

HOR/PRT-230/W is a modern classic styled thermostat with a large clear screen and clearly labelled buttons. The HOR/PRT-230/W can be used as a simple temperature controlling device or a time and temperature controller for improved energy efficiency.

- Positive, ergonomic, yet traditional push buttons
- Slim-lined styling at only 13mm thick
- +/- 1°C accuracy
- Ultra low power consumption of less than 1 Watt
- Child lock to prevent misoperation
- Holiday mode for energy saving

Technical specifications

Item	Digital Thermostat
Product code	HOR/PRT-230/W
Dimensions	86 x 86 x 13 mm
Mounting type	In wall (35mm minimum)
Colour	White
Voltage	230V AC
Power consumption	<1W
Max load current	3/16A Model dependant
Protection rating	IP20
Probe sensor	NTC 10k
Working temperature	5–45°C
Accuracy	1°C
Programming ability	1 Week (5+2)

Safety

- This product should be installed by a qualified electrician.
- Ensure that the electrical wiring of the installation and connections to and from the thermostat and any remote sensor connected to it are in accordance with BS7971, the latest edition of IET wiring regulations.
- The thermostat must be wired to the electric mains through a switch capable of disconnecting all poles compliant with the current safety standards and with a contact separation of at least 3mm in all poles.
- Before commencing work on the installation, the electricity supply must be disconnected.
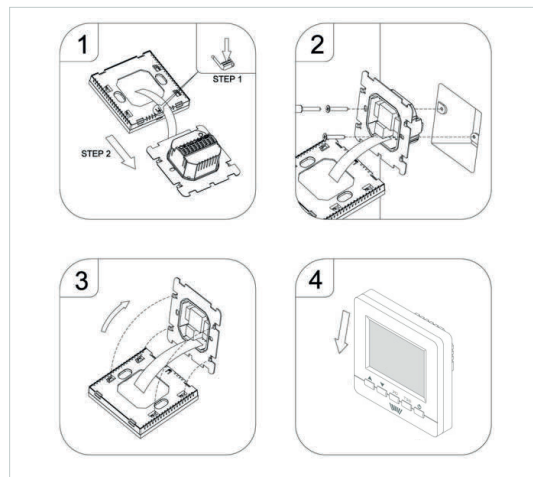
Disposal

This product should not be disposed of in household waste. The product should be disposed of in accordance with your local waste and recycling schemes.
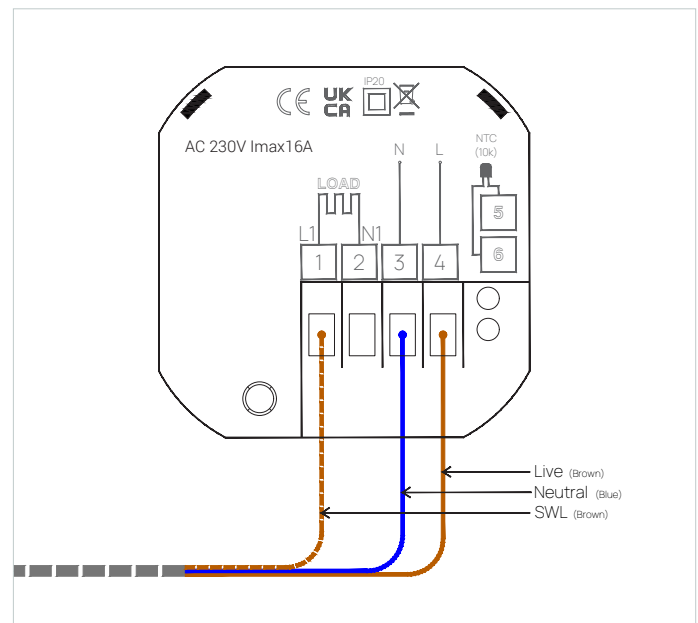
Installation

- Remove the front housing by sliding it upwards from the slots on the back plate, disconnect ribbon cable if needed.
- Set aside the front housing, ready to reattach once final work has finished.
- Make the wiring connections as shown in the diagram below.
- Screw the thermostat back plate on to the wall box through screw holes.
- Reconnect ribbon cable if removed, attach back together by sliding downwards into the slots on the rear housing.

Disassemble picture
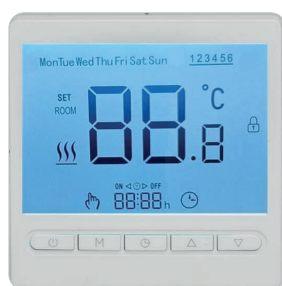

Wiring connections diagram

HOR/PRT-230/W Kinetic SD+PD Digital Thermostat

Operation

Button	Description
⏻	• Turn ON/OFF: Short press to turn on/turn off.
M	• Short press to switch between programming and manual mode.
🕒	• Short press to set time and week day. • Long press to entre programming function.
△	• Increases temperature and increases setting.
▽	• Decreases temperature and decreases setting.

Key lock: in the powered on state press and hold △ and ▽ for 5 seconds to activate button lock. The 🔒 symbol will be displayed on the screen.

To unlock press and hold △ and ▽ for 5 seconds and the 🔒 symbol will disappear.

Symbol	Meaning
〰	Calling for heat
✋	Manual mode
🕒	Time programming mode
🕒✋	Temporary manual mode (end when next time period starts)
🔒	Button lock active

Setting the time of day
Time and week setting: In the power on state, short press the 🕒 button to switch the minute, hour and week option settings, and press the △ button or ▽ button to adjust the parameter value.

Programming the thermostat
5+2 weekly programming style with six time periods a day

With the thermostat in the power on state, press and hold 🕒 for 5 seconds to enter programming mode. The days that are being programmed and the time period will be display at the top of the screen, (1 representing the first time period). The start time will start flashing, use the △ and ▽ to set the start time required then press the 🕒 button to move to setting the temperature, the temperature will start flashing. Use the △ and ▽ to adjust the temperature. Press the 🕒 to move to the next time period. The number at the top will increase but the days will stay the same. Continue to set the start times and the temperature required on all 6 periods using the same process as the previous. Once all 6 periods have been set it will move on to the weekend programming. The days will change and the number will revert back to 1. program the start time and temperature of the 6 periods for the weekend day(s) once happy with the setting, press M to save and exit the program.

1		2		3	
Wake up		Leave home		Back home	
06:00	20℃	08:00	15℃	11:30	18℃

4		5		6	
Leave home		Back home		Sleep	
13:30	15℃	17:00	20℃	22:00	18℃

The optimum comfort temperature is 18℃-22℃.
The end of the previous time period is always 1 minute before the start of the next time period.

Advanced options

In the shutdown state, press and hold the M and 🕒 keys for 5 seconds to enter the advanced parameter setting mode. The display 01 indicates the symbol at the time position below, and the display -2 flashes at the indoor temperature position to indicate the parameter value. Press the △ key in the blinking state or the ▽ key to change the parameter value, press M key to switch to the next item, after adjusting the parameters, press the power on to automatically confirm and save.

Time display	Options content	Default	Press or adjust
01	Temp compensation	-2℃	-9℃~+9℃
02	Start temp difference	1℃	1℃~5℃
03	Sensor type	In	In: Built-in sensor OU: External sensor AL: Internal and external sensors
04	Low temp protection setting	- -	5℃~10℃, press △ at 10℃, display - - means to turned off, the indoor temperature in the shutdown state, the thermostat will automatically turn on the heating.
05	High temp protection setting	70	35℃~99℃, press ▽ at 10℃, display - - means to turn off the function, if the probe detects that the temperature is higher than the set temperature, the heating device will be forcibly shut down. (This function is only available with external sensor power supply.)
06	Keylock option	0	0: In locked state, lock the switch key 1: In locked state, all key locks include the open key
07	Programming type	01	01 = 5+2 02 = 6+1 – = Non Programmable
08	Backlight selection	0	0: Turn off automatically for 10s 1: always on
09	Temp upper limit	45℃	5℃~99℃ (such as: The default is 45℃ when setting the temperature.)
10	Restart the power drop	2	0: power on 1: power off 2: restore the state before power failure

External probe temperature view: Pess and hold the △ button for 3 seconds to display the floor temperature at the time position, and after 5 seconds it will be displayed before it is restored (optional: this function is only available when the dual sensor is configured).

Sensor failure alarm: When the sensor fails, it will display Err or E1, E2 code alarm and disconnect the heating output, it will not return to normal until the fault is removed.

Factory reset: Press and hold the ⏻ and △ keys for 5 seconds in the power on state. After the full screen is displayed for 1 second, the power off indicates that the factory reset is successful.