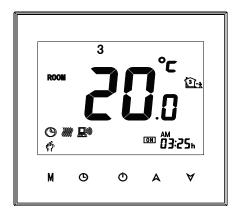


Heating Room Thermostat
User Guide
ORC-HC2-16A-RS485



Orcomm | Victor Way | Radlett Road | St Albans | AL2 2FL | www.orcomm.co.uk

Your thermostat

The ORC-HC2 range has been developed to control electric underfloor or water heating systems. These units are designed for use in commercial, industrial, civil and domestic properties.

Features

Simple installation
Acrylic face plate
Large, backlit display
Sleek, contemporary design
Elegant chrome frame
Feather touch control panel
5+2 six period per day programming
Simple, one-touch temperature control over-ride
Pre-set temperatures maintained within +/- 1°C
Internal and external sensors allow control of
both air and/or floor temperatures
Suitable for installation in a standard single pattress
box or European 60mm round box
RS485/MODBUS communication optional

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Technical Data

Sensor: NTC 10K Accuracy: ±1°C

Set Temp. Range: $0-50^{\circ}$ C Room Temp. Range: $5-99^{\circ}$ C Power Consumption: < 1.5W

Timing Error: <1%

Power Supply: 95 ~ 240VAC, 50 ~60Hz Current Load: Dry Contact (boiler heating) Shell material: PC+ABS (flame retardant)

Dimension: 86x86x13.3mm

Ambient Temp.: 0-45°C, 5-95%RH(Non-condensing)

Storage Temp.: -5-55°C

Installation Hole distance: 60mm

Operation/programming

1. Power on/off

Press **t** to turn on/off.

2. Adjusting/setting the temperature

Press A \(\neg \) to set the desired temperature.

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Welcome

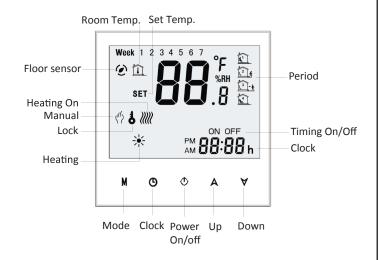
Thank you for your purchase.

Your new thermostat will provide uniform and comfortable temperature control throughout every room in your property. We bring together technology, craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design. Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please ensure a suitably qualified person installs your thermostat and complies with all local regulations.

Contents

Thermostat	1pc
Screws	1pc
Installation/programming manual	1pc
Wall plate	1pc
External senxor(Optional)	1pc

Home screen quick reference:



3. Adjusting/Setting the clock

Touch the icon \bigcirc to set minute, hour and weekday (1 = Monday, 2 = Tuesday etc.) by using the \land \forall arrows. Press \bigcirc once more to confirm and exit.

4.Locking your thermostat

Press and hold the \bigcirc and \triangle arrows for 5 seconds to lock/unlock your thermostat.

5.Adjusting/setting the program schedules

Your thermostat provides four scheduled heating periods each day – two Comfort periods - 1 & 3 (the temperature required when room is occupied) and two Economy periods – 2 & 4 (the temperature required when room is unoccupied). You can set both the time **and** temperature for each of these six daily periods. Adjusting/setting the schedules can only be carried out when in program mode;

Touch M (mode) to change between manual mode and programme mode. In manual mode,

will show in the bottom left of the screen.

Touch and hold the icon until the weekday schedule settings appear (1 2 3 4 5 will show along the top of the screen).

Use the A and ∀ arrows to adjust the time for the 1st (Comfort) period

Press the icon (♣) and use the A and ∀ arrows to set the temperature for the 1st period.

Repeat this process for periods 2 - 4.

Press the icon once more to enter the weekend schedule settings (6 & 7 will show along the top of the screen).

Repeat the above process to set the weekend schedule. Press (once more to confirm and exit.

Default settings for program schedule

Wiring your thermostat

Time display	WEEKDAY (MON. – FRI.)		WEEKEND (SAT. – SUN.)	
	TIME	TEMP.	TIME	TEMP.
Period 1 (Comfort)	08:00 waken	20°C	08:00 Waken	27°C
Period 2 (Economy)	12:00 Leave		12:00 Leave	
Period 3 (Comfort)	13.30 home	23°C	13:30 home	26°C
Period 4 (Economy)	18:00 Leave		18:00 Leave	

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Default settings above assume a 5+2 (day) weekly program.

6. System function settings

Please note:

1."Err" on your thermostat indicates a fault without the external (floor) sensor.

Your thermostat will be inoperative until the error is rectified.

2. When sensor selection is "AL" (option 4 below) the room temperature will be displayed on your thermostat by default. The floor temperature can be displayed temporarily by pressing the ∀ button for three seconds. Your thermostat will revert to display the room temperature after several seconds.

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GB Orcomm Ac 95~240V NTC/10K NTC/10K S RS485+ (Red) RS485+ (White) ORC-HC2-16A-RS485-WH 8003/5331 10. NTC-- Compatible sensors tested and approved by Crossman

Please note:

Do not over-tighten the terminals in your thermostat as damage may occur.

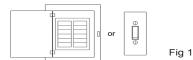
10K NTC* - Compatible sensors tested and approved by Orcomm

Function Setting and options Default Temperature -2 -9 to +9[°]C (for internal sensor) 1-5 ℃ 2 01 temperature 00: All buttons are locked except power button. 01 01: All buttons are locked IN: Internal Sensor (to control or limit the temperature) Ou: Only external sensor Sensor types AL: Internal/ External Sensor (Internal sensor tocontrol the temp. external sensor to limit the temp.) Min. Set Temp 5-15℃ 05 15-45 ℃ 35 00: display both set temp, and room temp Display Mode 01: display set temp. only 00 High temperature 25-70℃. 45 01 IP Setting 402 Α Device Program Version Number

Installing your thermostat

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm round pattress box.

Step 1. Keep power off. See Fig 1.



Step 2. Remove the mounting Plate. See Fig 2.

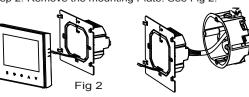
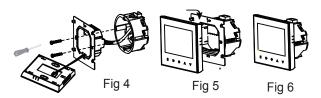


Fig 3

Step 3. Connect power supply, load and external (floor) sensor into the appropriate terminals if there is external sensor. (see "Wiring your thermostat" for details and Fig 3).

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Step 4. Fix the mounting plate into the wall with screws in the box. See Fig 4



Step 5. Fasten body of thermostat and the mounting plate through the groove. See Fig 5.

Step 6. Installation complete. See Fig 6.

RISK OF ELECTRICAL SHOCK. Disconnect/isolate power supply prior to making electrical connections. Contact with high voltage components can cause electrical shock, severe injury or death.

Warranty

Your thermostat carries an 24 month warranty from date of purchase. Service outwith the warranty period may incur a charge.