



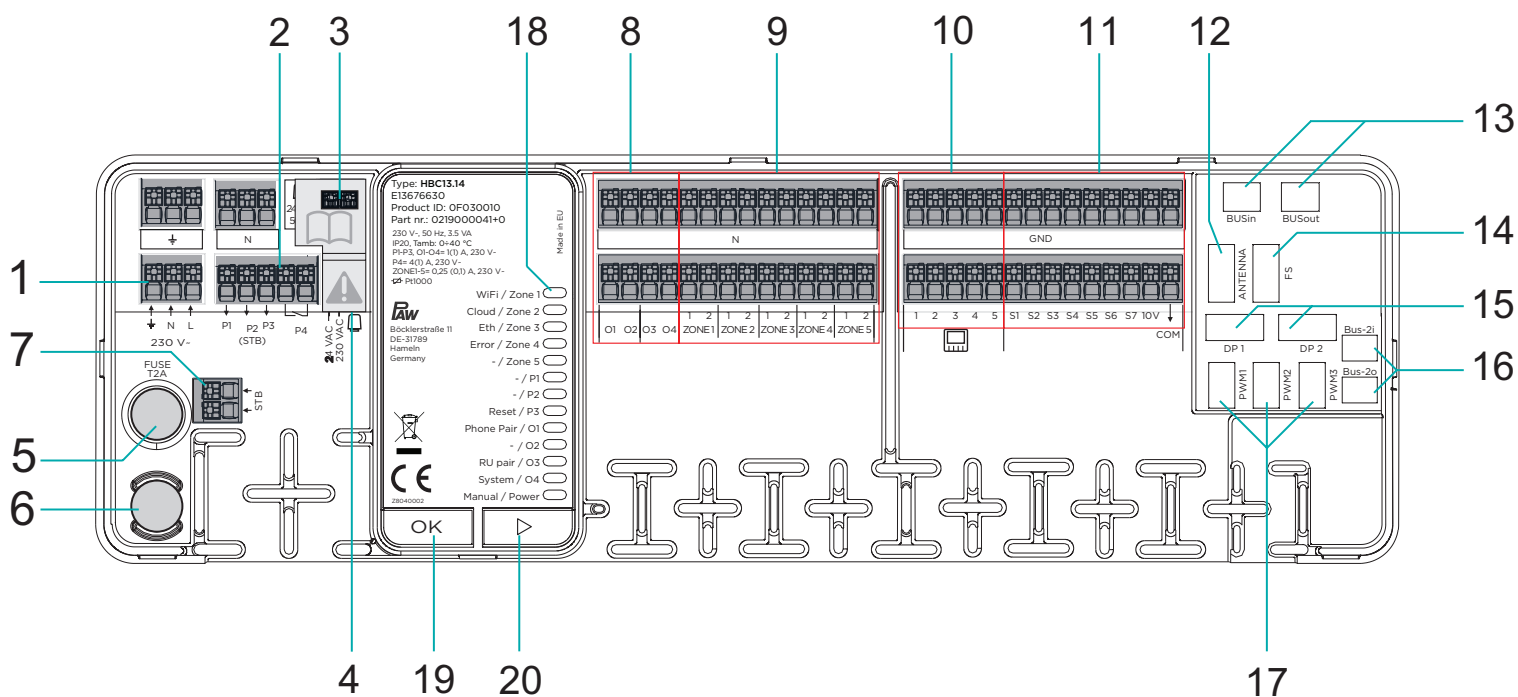
HomeBloC® Controller [HBC]

HBC13.14 – Domestic hot water preparation and zone heating

Product description

The HBC controller has been developed to control hot water preparation and room heating. In the case of radiant floor heating, control is achieved via thermal actuators on the distribution manifold valves, based on the temperatures recorded by the room climate control units. There are 5 independent temperature zones with the option to control a total of 10 heating and cooling units. The controller allows for wired or wireless connection of the room units. If required, additional controllers can be linked together to create more temperature zones or units.

View of the controller



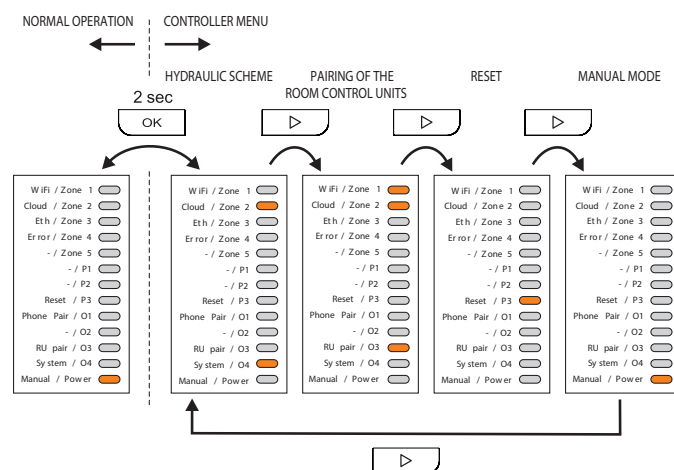
- 1 Connection terminals for the power supply of the controller (230V~)
- 2 Connection terminals for the power supply of pumps
- 3 Connection terminals for the safety temperature limiter of pump P2
- 4 Switching of the power supply for thermal actuators / control actuators 24 VAC <-> 230 VAC
- 5 Electrical fuse
- 6 Spare fuse
- 7 Connection terminals for the safety temperature limiter for pump P2
- 8 Connection terminals for switching valves and control valves
- 9 Connection terminals for controlling thermal actuators for zone valves
- 10 Connection terminals for connecting wired room units

Meaning of the LEDs

- ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5 — Indicates the operation of temperature zones. When the LED is lit, the thermal actuators associated with the zone are activated.*
- P1 P2 P3 — Indicates the operation of the pump output. When the LED is lit, the output is active.
P1 - Primary pump
P2 - Radiant floor heating circuit pump
P3 - Hot water circulation pump
- O1 — Indicates the power supply to the switching valve. When the LED is lit, the switching valve is activated.
- O2 — Indicates the status of the switching valve. When the LED is off, the switching valve is set to domestic hot water preparation. When the LED is lit, the switching valve is switched to room heating.
- O3 — Indicates control of the control valve for the radiant floor circuit.*
- O4 — Indicates control of the control valve for the direct heating circuit. If the LED is lit, the direct heating circuit is active.*
- RU pair — Indicates the pairing process. If the LED is lit, the controller is in the pairing phase with the room control units.
- System — When the LED is lit, the controller is in the hydraulic system selection mode.
- Reset — When the LED is lit, the controller is in the reset menu selection mode.
- POWER — Indicates the controller status. When the LED is lit, the controller is in normal operation; when the LED is off, the controller is in setup mode.

Controller menu

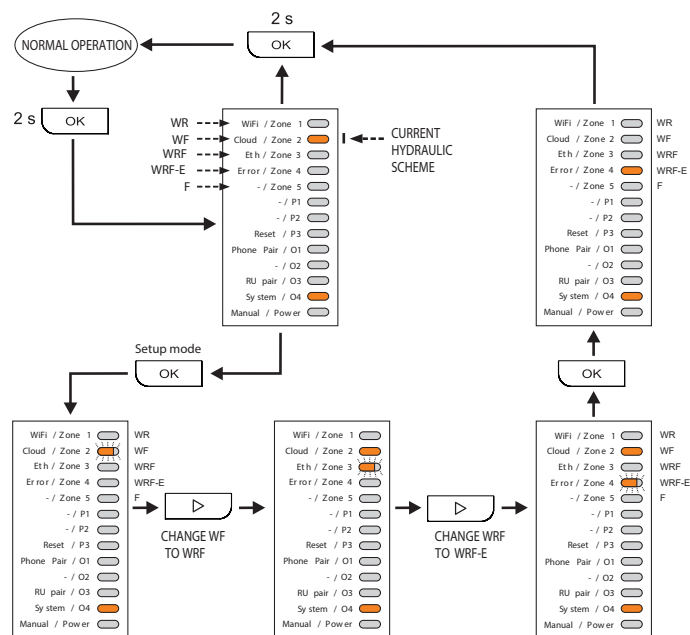
In the controller menu, you can configure the basic settings of the controller.
To switch from the home screen to the controller menu, press and hold the button for 2 seconds; to switch between the individual groups in the menu, press the .



Hydraulic scheme menu

The HomeBloC® controller offers a choice of 5 hydraulic systems. Hydraulic schemes are shown in the chapter “Hydraulic Systems” of the main instructions.

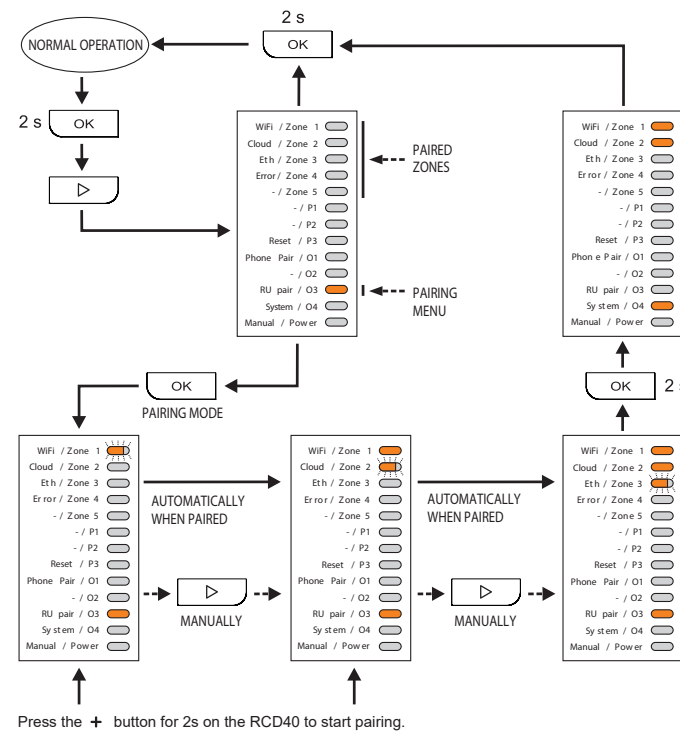
Example: Switching from scheme WF to scheme WRF-E.



Assigning room units to zones

The pairing process allows you to connect the RCD40 room control unit to the controller and assign zones to it at the same time.

Example:

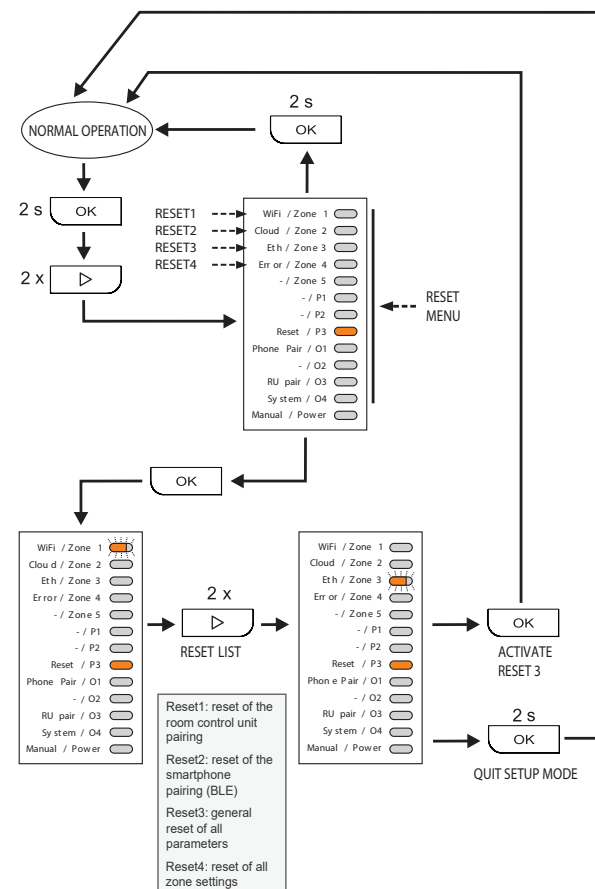


Press the button for 2s on the RCD40 to start pairing.

Reset

There are 4 types of reset available:
RESET 1 – Pairing reset for room control units
RESET 2 – Resetting BLE phone pairing
RESET 3 – Reset all parameters
RESET 4 – Reset all zone settings
(Set temperatures, time programmes,...)

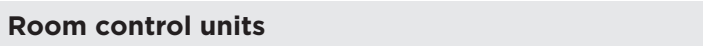
Example: Activate Reset 3



Manual mode

Example: Manual ON/OFF of output 3.

 Fast flashing: the selected output is OFF.



The room control unit exchanges the measured and desired values for its temperature zone with the controller:

- measured room temperature
- desired daytime temperature
- desired night-time temperature
- desired safety temperature
- operating mode
- user functions ON/OFF
- desired hot water temperature

Hydraulic systems

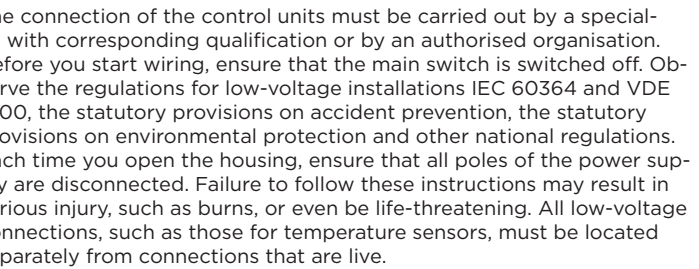
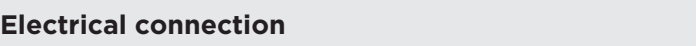
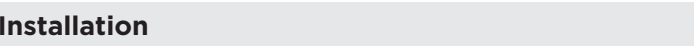
R: DHW module, radiator, IWH, circulation

F: DHW module, radiant floor heating, IWH, circulation

RF: DHW module, radiator, radiant floor heating, IWH

RF-E: DHW module, radiator, radiant floor heating

Add up to five additional zones with up to 10 actuators.



Technical data

Disposal

