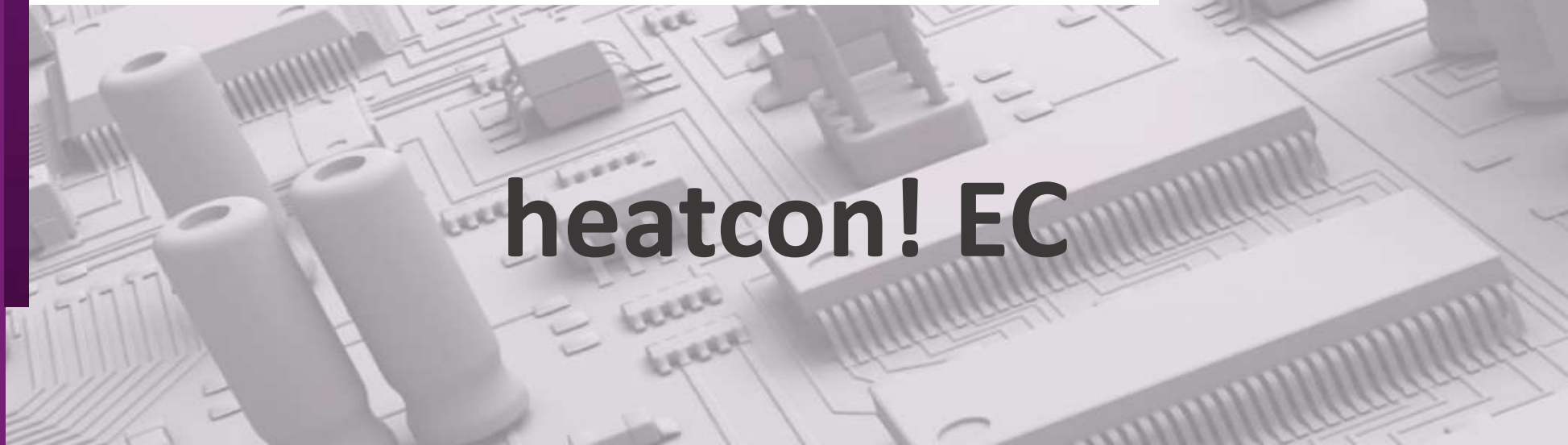# heatcon! EC

heatcon! EC

The **heatcon! EC** forms the central control unit in the **heatcon! System**.

The unit is mounted on a top-hat rail in the boiler or control cabinet.
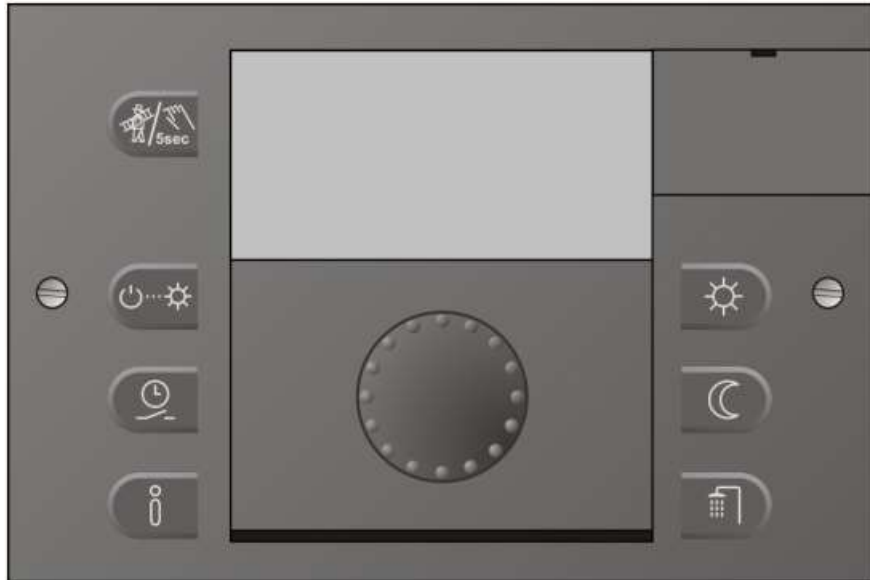
A pre-wired wall housing is available as an option.

heatcon! EC

Possible applications :

➢2 x enery generator

➢Buffer management

➢Domestic hot water

➢2 x mixed circuits

➢1 x direct heating circuit

➢3 x differential control

➢Single room control (in combination with heatapp! gateway and radio component)

heatcon! MMI (Bedienteil)

For operating the heatcon! complete system without browser, is used the heatcon! MMI.

This is used to call up the installation wizard during initial commissioning.

With only 9 steps can be set the heatcon! EC in the basic configuration.

heatcon! EM (EM 100 / EM 101)

EM 100 (Top-hat rail mounting)

The **heatcon! EM** serves as an extension of the inputs and outputs of a **heatcon! EC** within the system.

- 2x heatcon! EM on the EC are possible
- Each 1x mixer heating circuit extension
- Each 1x variable Output (Potential-free)
- Each 2x 0-10V / PWM Output
- Each 2x 0-10V Input (Setpoint value setting)

EM 101 (Wall mounting)

heatcon! RC 130

The RC 130 is a living area remote control
with room temperature detection.

- Connection via 2-wire BUS (h2B) with heatcon! EC
- Display of room setpoint temperature (top)
- Display of actual room temperature (below)
- Comfort temperature-setting with button „+" and „-"
- Operating situation indicated by symbols

EbV elektronik

heatcon! system image

Possible applications :

➢2 x enery generator

➢Buffer management

➢Domestic hot water

➢2 x mixed circuits

➢1 x direct heating circuit

➢3 x differential control

➢Single room control (in combination with heatapp! gateway and radio component)

heatcon! MMI
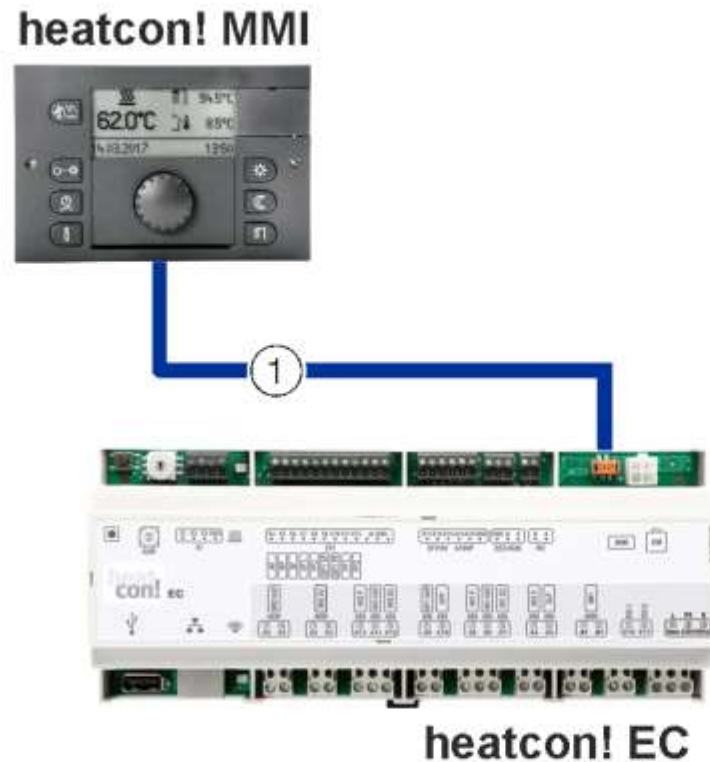
heatcon! EC

1   EbV-system bus (Device bus)
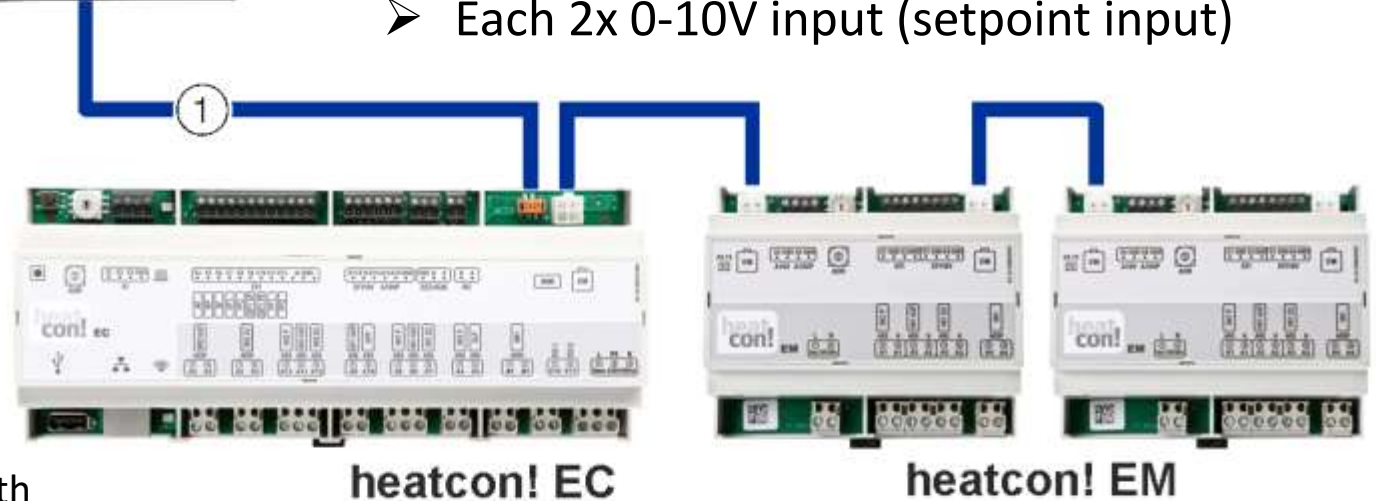
heatcon! system image

Possible applications :

➢ 2 x enery generator

➢ Buffer management

➢ Domestic hot water

➢ 2 x mixed circuits

➢ 1 x direct heating circuit

➢ 3 x differential control

➢ Single room control (in combination with heatapp! gateway and radio component)

heatcon! MMI
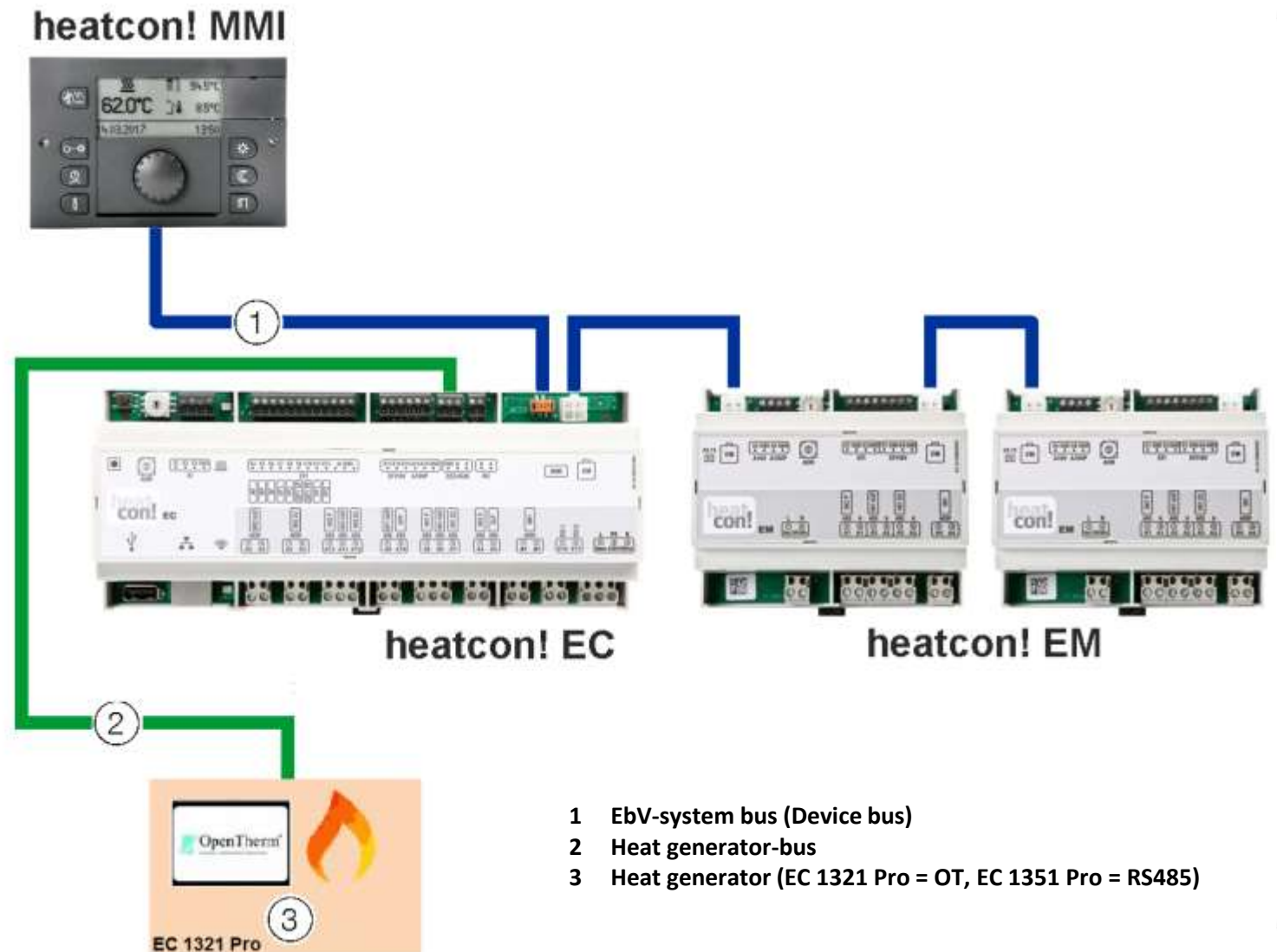
Additional connections

➢ Each 1x variable output (potential free)
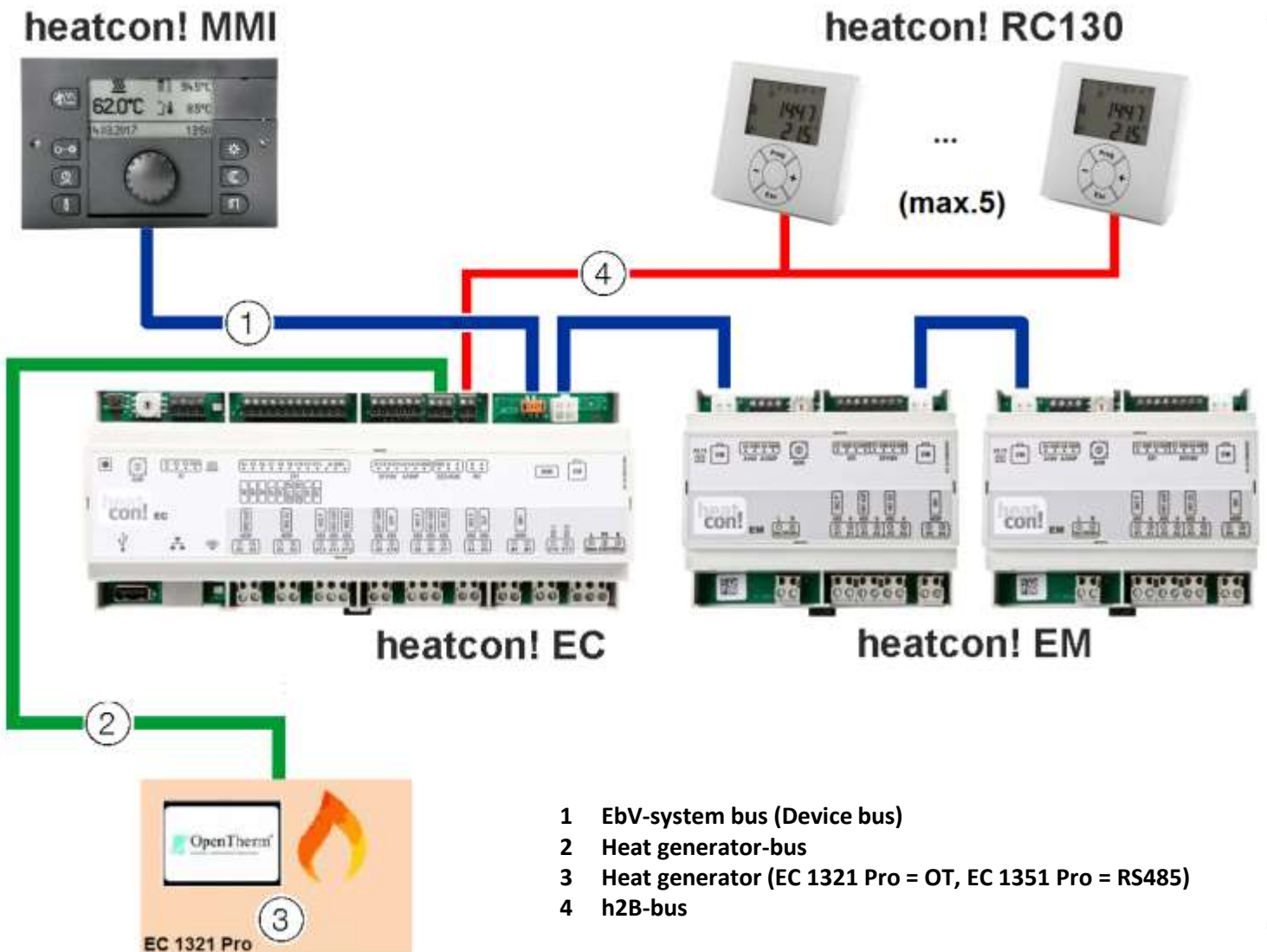➢ Each 2x 0-10V / PWM outputs
➢ Each 2x 0-10V input (setpoint input)

heatcon! EC

heatcon! EM

1   **EbV-system bus (Device bus)**

heatcon! system image

1   EbV-system bus (Device bus)
2   Heat generator-bus
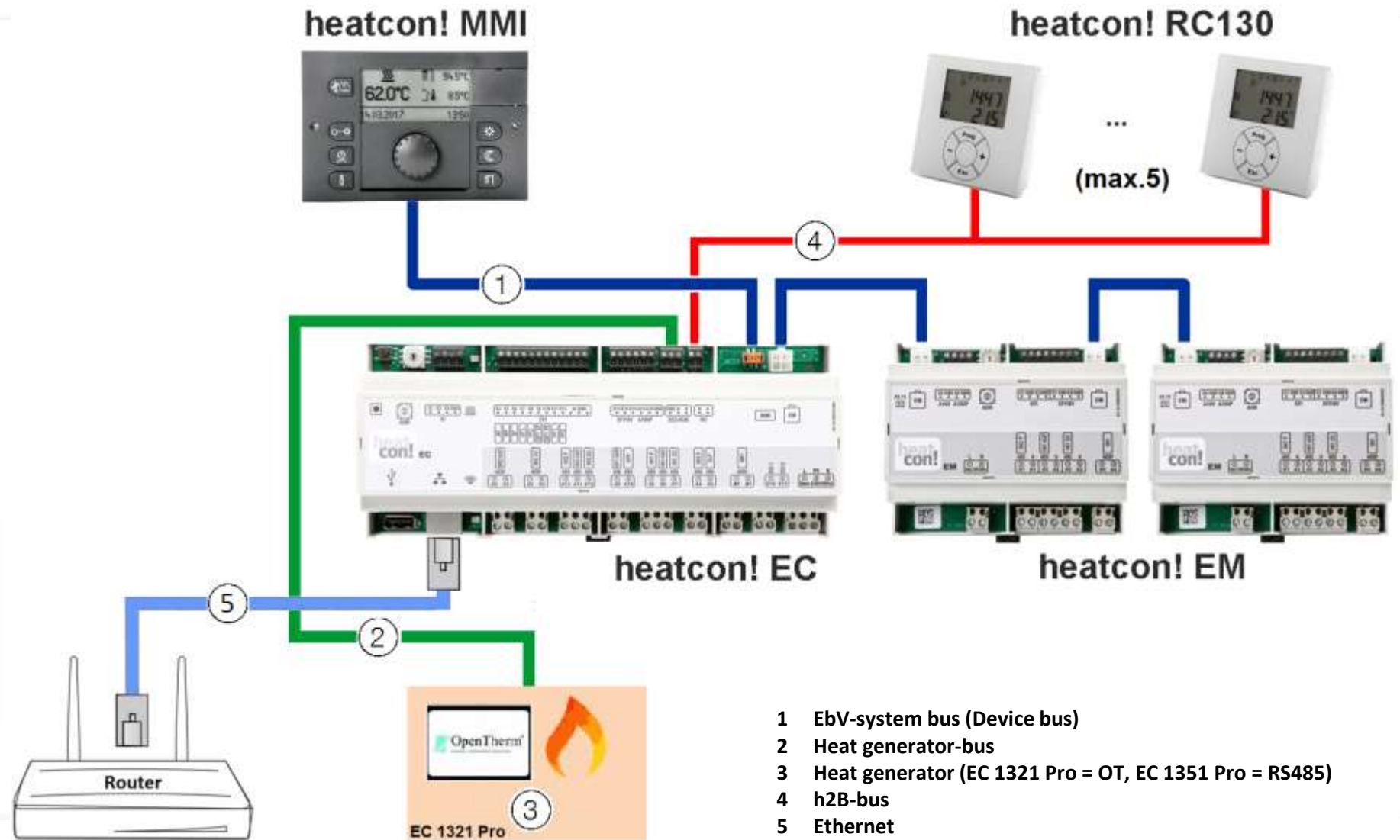3   Heat generator (EC 1321 Pro = OT, EC 1351 Pro = RS485)
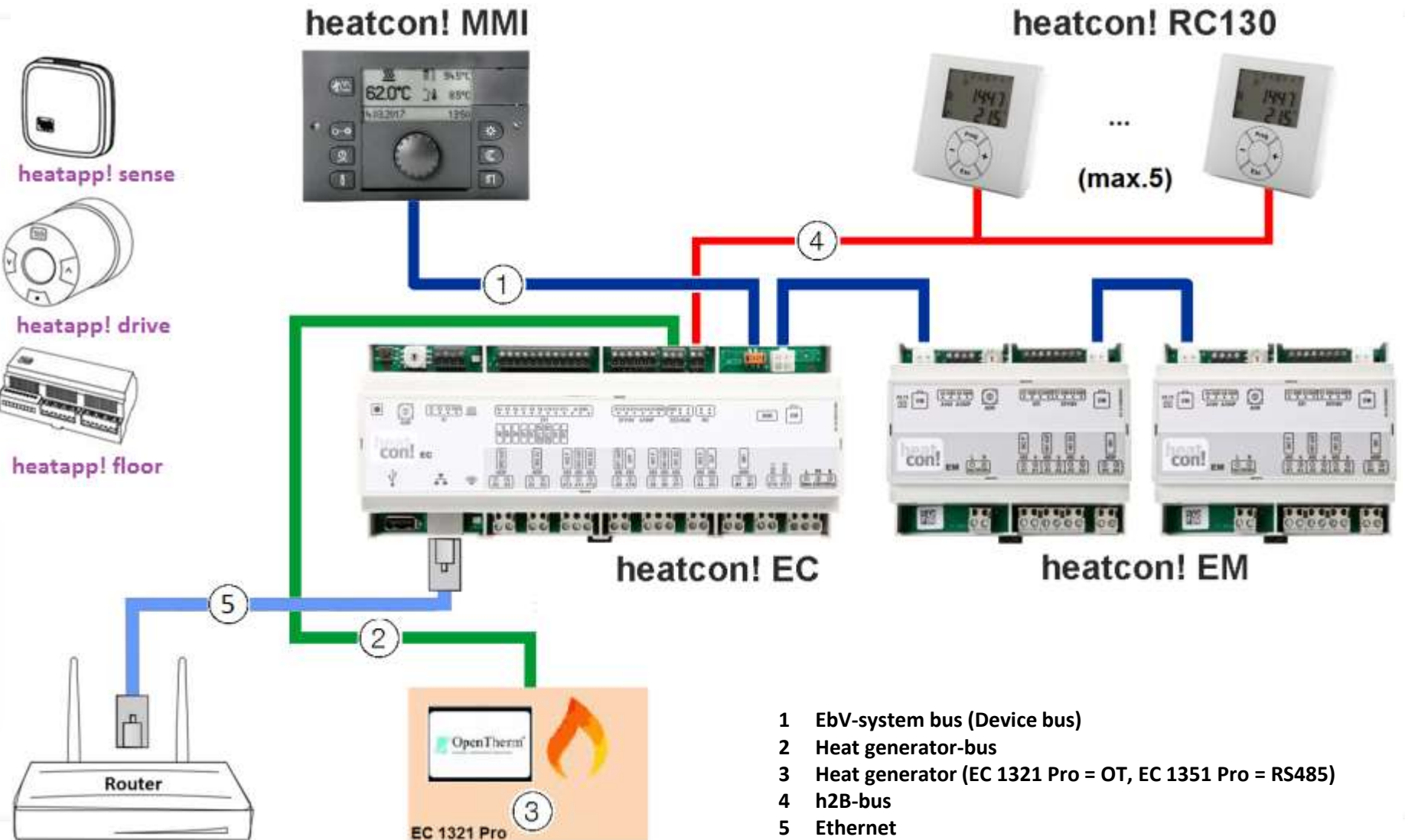
heatcon! system image

1   EbV-system bus (Device bus)
2   Heat generator-bus
3   Heat generator (EC 1321 Pro = OT, EC 1351 Pro = RS485)
4   h2B-bus
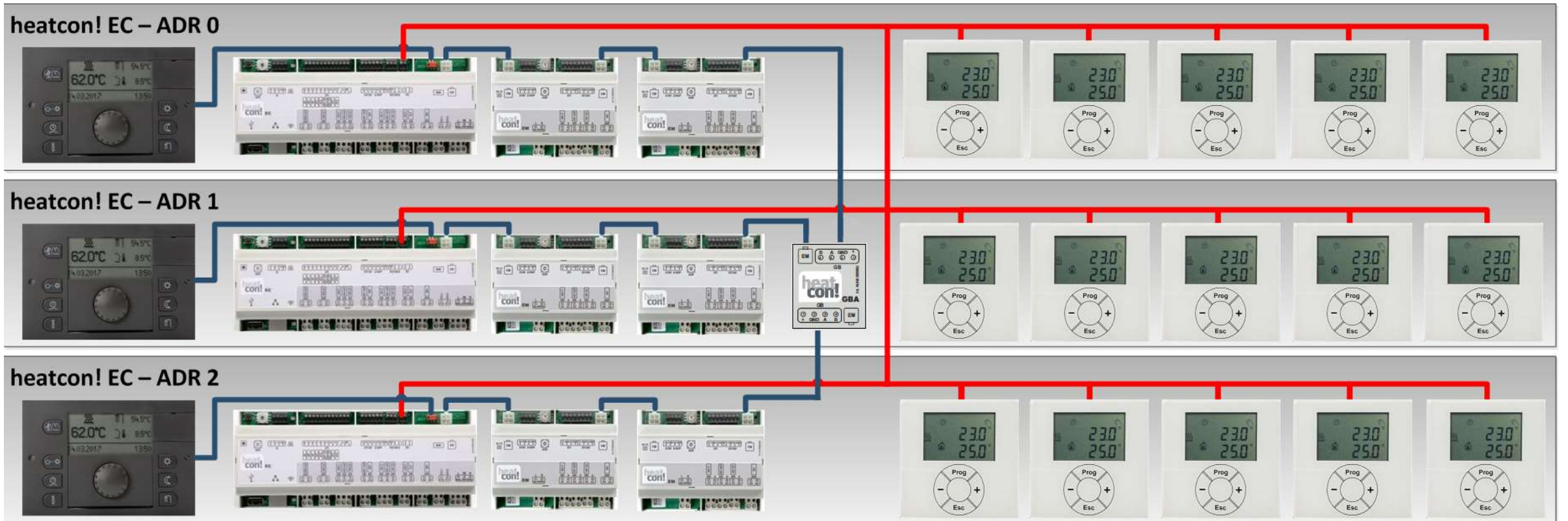
heatcon! system image

1. EbV-system bus (Device bus)
2. Heat generator-bus
3. Heat generator (EC 1321 Pro = OT, EC 1351 Pro = RS485)
4. h2B-bus
5. Ethernet

heatcon! system image
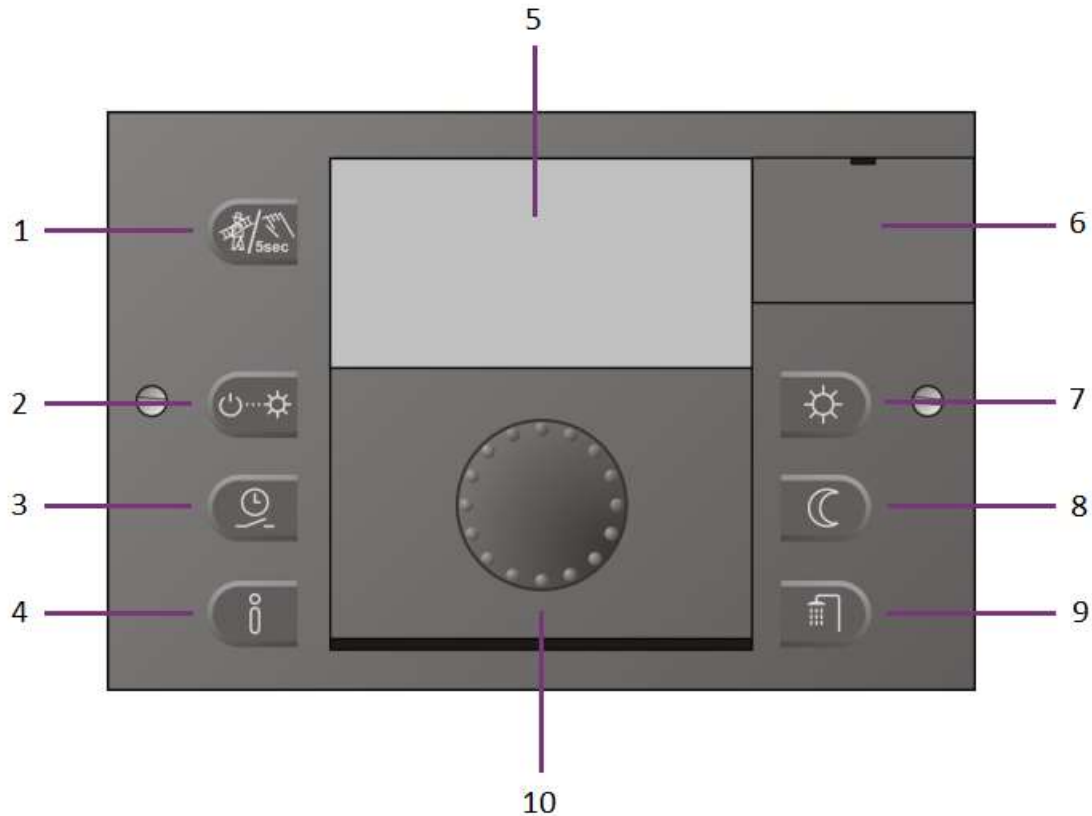

1   EbV-system bus (Device bus)
2   Heat generator-bus
3   Heat generator (EC 1321 Pro = OT, EC 1351 Pro = RS485)
4   h2B-bus
5   Ethernet

heatcon! system structure (max.)

heatcon! MMI (Operating panel)

1 – Emission measurement, manual operation

2 – Heating and lowering programs

3 – Setting the switching times

4 – Information button

5 – Multifunctional display

6 – Cover clip

7 – Comfort- and economy temperature

8 – Setback temperature

9 – Hot water day temperature

10 – Rotary knob with switching function

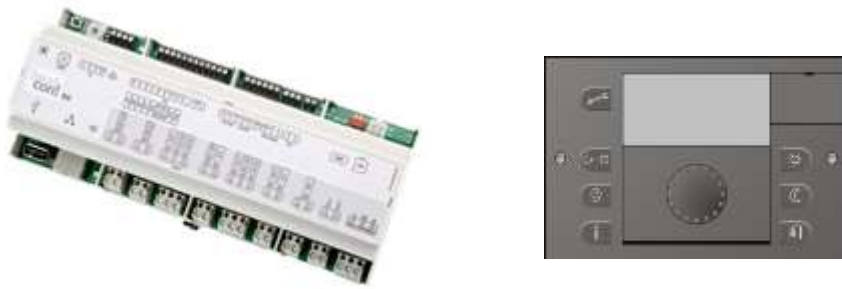# heatcon! MMI (Operating panel)

1	Selected menu level
2	Symbol to be found on the key
3	**Bold indicates** that selection is possible
4	Names or adjustment options
5	Scroll bar, with several selection options to be

heatcon! MMI (Operating panel)

Registration of the MMI control unit is not required.
Connection to the system bus is sufficient (ribbon cable is included).

Also when using 3 heatcon EC
(as extension or cascade), only one MMI control unit is required. Differentiation is made via address switches on the heatcon! EC, selection on MMI according to addressing.

heatcon! setup wizard

Setup via MMI

Setup via PC / Laptop / Tablet / Smartphone

heatcon! setup wizard

- Menu – driven setup

- Step by step setup

- Presetting the assignment of inputs and outputs on the heatcon! EC

- "Fine tuning" in the parameter menu

heatcon! setup wizard

- The hydraulics are preset with the setup wizard.

- **Before the configuration,** it is necessary to make clear which sensors, pumps, heating circuits, deflection valves are used and where they are used.

- Then a comparison is made with the Burner control System (OT)ic assignment of the inputs and outputs by the setup wizard (table for hydraulics).

- After finishing the setup wizard, further settings can be configured accordingly in the expert menu.

Advanced setting in the configuration

- Further functions are performed in the configuration menu of the MMI or in the "Expert" menu of the heatapp! app.

- It is possible to use a sensor for several functions by variable assignment of inputs and outputs (e.g. speed control, balancing, memory ...)

- A sensor can thus be assigned to different functions.

Advanced setting in the configuration

- When setting further functions in the configuration menu of the MMI or in the "Expert" menu of the heatapp! app, the sequence of activation must be observed.

  1. **Switching on the required function**
  2. **Activation of the corresponding outputs (pump/valve/0-10V)**
  3. **Assignment of the corresponding inputs (sensor/0-10V)**

- It is always helpful to prepare a hydraulic drawing so that all functions are switched on and the assignment of the outputs and inputs is carried out.

heatcon!
THE new controller system