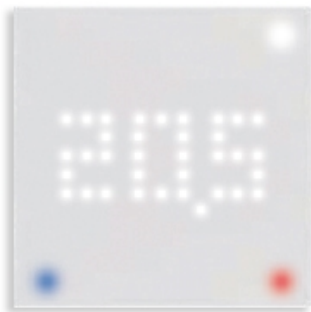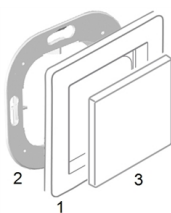## HERZ clever&smart LEDcontroller 3 F810 31

Digital room sensor for surface heating systems with built-in multi-sensor and digital communication via 1-wire bus in connection with the HERZ clever&smart Control Box. Intuitive operation via integrated touch areas and LEDs.

Technical Data

Power Supply	5 VDC (+/- 10 %)	**Protection Class**	IP 20
power consumption	0,6 W	**Dimension**	55 mm x 55 mm
Measurement Range		**Housing**	Plastic Pure white
Temperature:	0 °C ... 60 °C	**Mounting**	Surface / flush-mounted
- Accuracy / resolution:	+/- 1 °C / 0,1 °C		

Wall mounting and electrical connection

Mount the HERZ clever&smart LEDcontroller in a suitable place.

⚠️ **Caution!**
Device and function may be damaged. Select a suitable environmental condition. Direct sunlight, sources of heat and cold, e.g. radiators and windows must be avoided.

Mounting in flush-mounted switch box

Attach the mounting ring (2) to the switch box. Make the electrical connection as described below.

Electrical connection

Connect the sensor to the 1-Wire bus. GND = Grey, DQ= Orange, VCC= Red

Attach insert

Hold the cover frame (1 - not included in the scope of delivery) against the mounting ring (2). Align the HERZ clever&smart LEDcontroller

(3) with the mounting ring and press it in until it engages in the mounting ring.
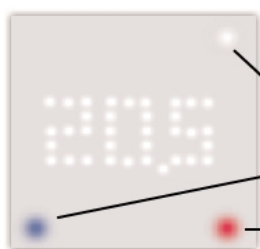
Surface mounting

Use the surface-mounted frame set 3 F810 52 for surface mounting.

1-Wire ID

1-Wire ID:
E0-D5-5E-0E-69-F1

Each HERZ clever&smart LEDcontroller has a unique 1-Wire ID. This ID is required for sensor room assignment in the HERZ clever&smart Control Box. You will find the ID on the small sticker supplied.
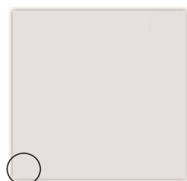
LED

LED white = Touch registered - operation active
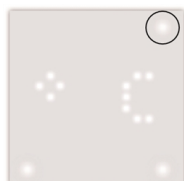
LED blue = Reduce setpoint
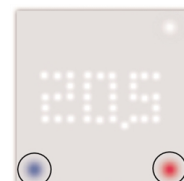
LED red = Raise setpoint

Operation

Standby Screen
Touching the touch areas activates the device.

Measuring unit and measured value display
The first touch of the touch area shows the temperature. Repeated touching changes to other measured values and first shows the unit and after a short time the measured value.
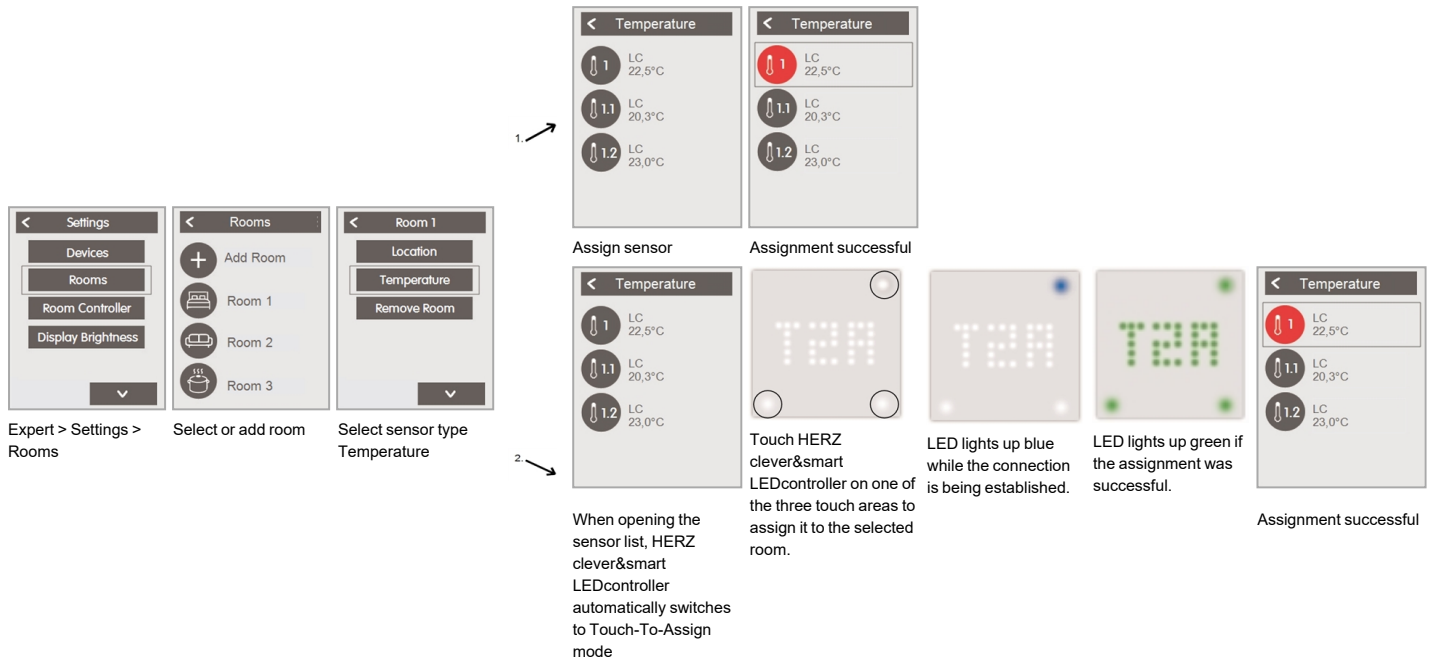
Setpoint adjustment
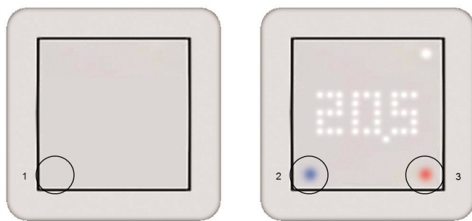The set temperature can be reduced or increased by touching the blue and red touch areas.

♡ HERZ clever&smart LEDcontroller room assignment

There are two ways to assign a room to the HERZ clever&smart LEDcontroller:

1. Using the unit ID via the HERZ clever&smart Room Controller menu 'Expert -> Settings -> Rooms -> Room X -> Temperature".

2. As described under 1. via the HERZ clever&smart Room Controller menu in combination with the Touch-To-Assign function (T2A) on the HERZ clever&smart LEDcontroller.
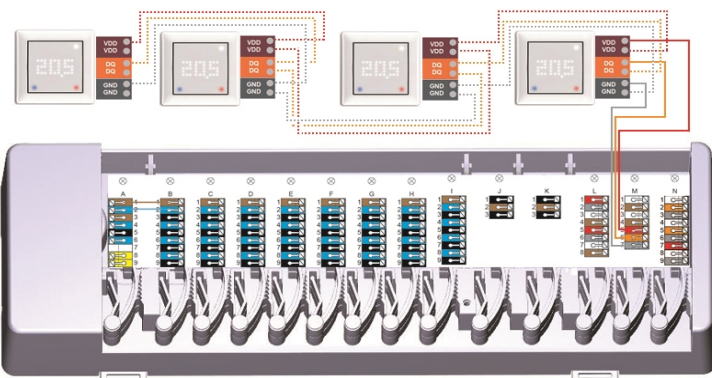
Assign sensor

Assignment successful

Expert > Settings >
Rooms

Select or add room

Select sensor type
Temperature

When opening the
sensor list, HERZ
clever&smart
LEDcontroller
automatically switches
to Touch-To-Assign
mode

Touch HERZ
clever&smart
LEDcontroller on one of
the three touch areas to
assign it to the selected
room.

LED lights up blue
while the connection
is being established.

LED lights up green if
the assignment was
successful.

Assignment successful

♡ Set room setpoint

1. Activate the room setpoint menu (1) by touching the touch area (1).

Reduce (2) or increase (3) the room setpoint by touching the touch areas.

After 20 seconds, the display returns to the standby screen. The set room setpoint is valid until the next change via HERZ clever&smart Room Controller timer or manually.

♡ HERZ clever&smart LEDcontroller with HERZ clever&smart Control Box

The 1-Wire system must be designed with 3 wires (5 VDC, DQ, GND). The wiring must be done in series, see diagram opposite. Stub lines should be avoided or made as short as possible. The total cable length can be up to 100 m. Use a suitable twisted pair cable and ensure sufficient conductor cross-section, e.g. LIYCY 2 x 2 x 0.75 mm², in order to avoid impermissible voltage drop at the HERZ clever&smart LEDcontroller below U_{min} = 4.5 VDC.