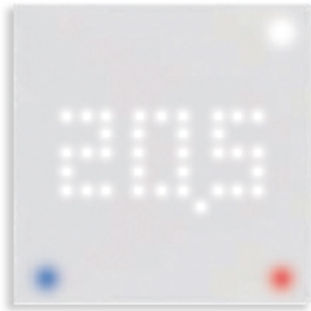


HERZ clever&smart LEDcontroller Clima 3 F810 32

Digital room sensor for surface heating and cooling systems with built-in multi-sensor and digital communication via 1-Wire bus in connection with the HERZ clever&smart Control Box Clima. Intuitive operation via integrated touch areas and LEDs. Monitoring of air quality possible via coloured status LED.

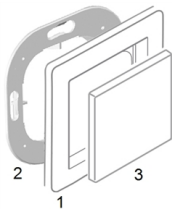


Technical Data

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		
Humidity	0 % ... 100 %		
- Accuracy / Resolution	(+/- 6 % / 0,1 %)		
CO2 equivalent*	0 ppm - 9999 ppm		
Air quality IAQ*	0 - 999		

* indicative value

Wall mounting and electrical connection



Mount the HERZ clever&smart LEDcontroller Clima 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 Clima (3) with the mounting ring and press it in until it engages in the mounting ring.

Surface mounting

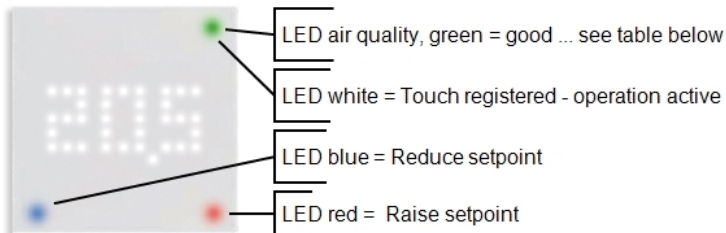
Use the surface-mounted frame set 3 F810 52 for surface mounting.

1-Wire ID

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

Each HERZ clever&smart LEDcontroller Clima 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



Measured values IAQ and CO2 equivalent

In the first few days after installation, the HERZ clever&smart LEDcontroller goes through a calibration phase during which fluctuating measurements and major deviations may occur.

CO2	Air quality
< 800 ppm	Excellent
800 - 1000 ppm	Good
1000 - 1400 ppm	Satisfactory
1400 - 2000 ppm	Medium (ventilation recommended)
2000 - 3000 ppm	Bad (ventilation required)
> 3000 ppm	Very bad (ventilation required)

IAQ	Air quality*
0 - 100	Good
101 - 150	Moderate
151 - 200	Unhealthy for sensitive groups of people
201 - 250	Unhealthy
251 - 300	Very unhealthy
301+ [LED flashes high-frequency]	Hazardous to health

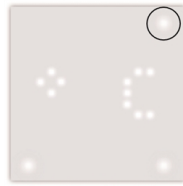
* The faster the LED flashes, the poorer the air quality

Operation



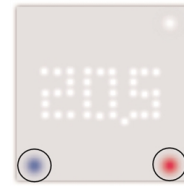
Standby Screen

IAQ ok
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 Clima room assignment

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

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

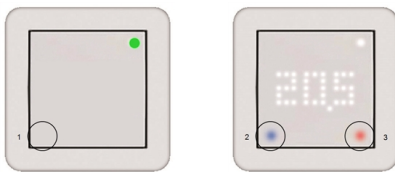
1. Room Controller Menu:

- Expert > Settings > Rooms
- Select or add room (Room 1, 2, 3)
- Select sensor type: Temperature / Humidity

2. Touch-To-Assign (T2A) Function:

- 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.

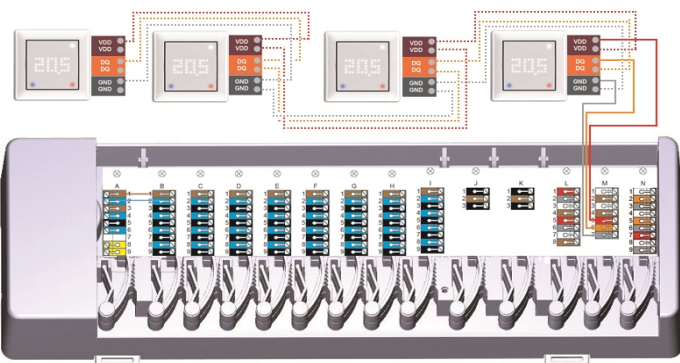
Set room setpoint



- 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 Clima below $U_{min} = 4.5$ VDC.