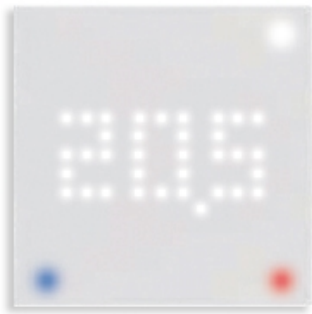# °C-Lite /°C-Lite Clima IAQ

Digital room thermostats for surface heating and cooling systems with built-in multi-sensor and digital communication via 1-Wire bus in conjunction with a current version of the °CALEONbox - see "Compatibility and connection °C-Lite with °CALEONbox" on page 2. Intuitive operation via integrated touch areas and LEDs. Air quality monitoring (Clima IAQ) possible via coloured status LED.
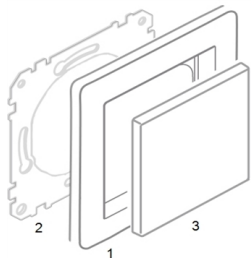

Technical Data

Power Supply	5V DC(+/- 10 %)	**Protection Class**	IP20
power consumption	0,6 W	**Dimension**	80 mm x 80 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 %)		
CO_2 equivalent*:	400 ppm - 2001 ppm		
Air quality IAQ*:	0 - 300		

* indicative value, only in Clima IAQ version

Wall mounting and electrical connection

Mount the sensor in a suitable location.

> ⚠️ **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 on plastic wall socket
Attach the mounting frame (2) to the switch box. Make the electrical connection as described below.
Electrical connection
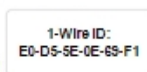Connect the sensor to 5V DC power supply. GND = Grey DQ= Orange, VCC= Red
Insert the Element
Hold the cover frame (1 - not included in the scope of delivery) against the mounting frame (2). Align the °C-Lite (3) with the mounting frame and press it in until it engages in the frame.
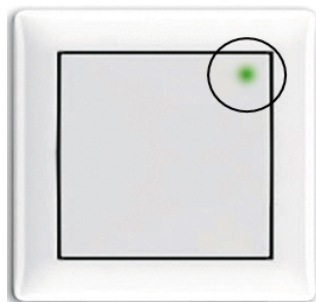
Type plate / 1-Wire ID

°C-Lite Room Sensor
5V DC | 0,6W
SOREL GmbH Mikroelektronik

CE ⚙ 📖 🗑 IP20 RoHS

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

Each sensor has a unique 1-Wire ID. This ID is required for sensor room assignment in the °CALEONbox. You will find the ID on the small sticker supplied.
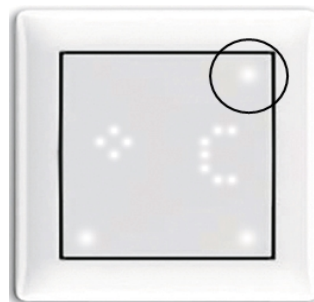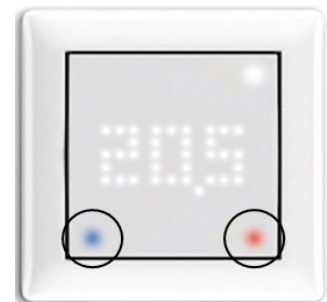
Operation

Standby Screen
IAQ ok (Clima IAQ)
Touching the touch areas activates "Display".

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.
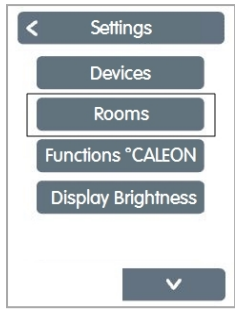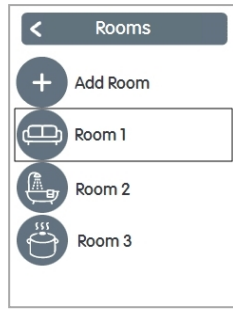
Setpoint adjustment
The set temperature can be reduced or increased by touching the blue and red touch areas.
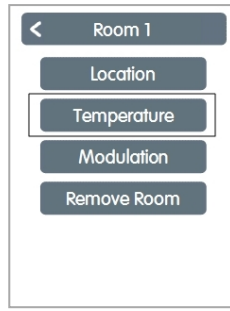
°C-Lite room assignment

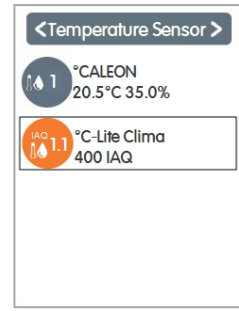The °C-Lite sensor is assigned to a room via the menu 'Expert -> Settings -> Room'.

< Settings Devices Rooms Functions °CALEON Display Brightness ∨	**< Rooms** + Add Room 🛋 Room 1 🚰 Room 2 🍲 Room 3	**< Room 1** Location Temperature Modulation Remove Room	**< Temperature Sensor >** 🌡1 °CALEON 20.5°C 35.0% IAQ1.1 °C-Lite Clima 400 IAQ
Expert > Settings > Rooms	Select or add room	Select sensor type	Assign sensor

LED

LED Air quality (Clima IAQ), green = good ... see table below

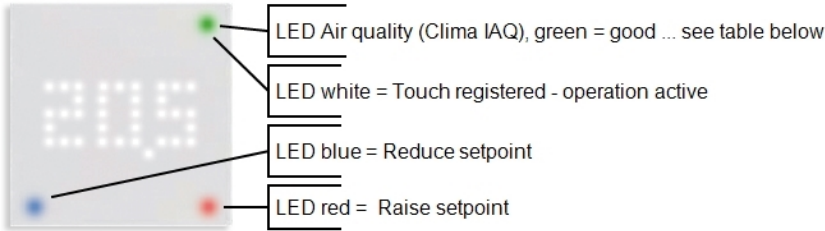LED white = Touch registered - operation active

LED blue = Reduce setpoint
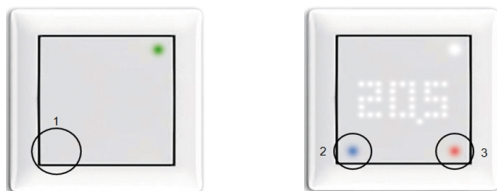
LED red = Raise setpoint

Measured values IAQ and CO2 equivalent

In the first few days after installation, the °C-Lite Clima IAQ goes through a calibration phase during which fluctuating measurements and major deviations may occur.

CO_2	Air quality
400 - 600 ppm	Excellent
601 - 1000 ppm	Good
1001 - 1500 ppm	Satisfactory
1501 - 2000 ppm	Medium (ventilation recommended)
2001 ppm +	Bad (ventilation required)

IAQ	Air quality
0 - 50	Good
51 -100	Moderate
101 - 150	Unhealthy for sensitive groups of people
151 - 200	Unhealthy
201 - 300	Very unhealthy
300 +	Hazardous to health

Set room setpoint

1. Activate the room setpoint menu (1) by touching the touch area (1). Reduce (2) or raise (3) the room setpoint by touching the touch areas.

After 20 seconds, the display returns to the standby screen.

Compatibility and connection °C-Lite with °CALEONbox

The following must be observed when connecting °C-Lite with the °CALEONbox:

- **Art. No. until .....n**
  no °C-Lite via 5V DC, external power supply and software update required
- **Art. No. from .....o**
  1 °C-Lite via 5V DC, external power supply unit and software update required for others
- **Art. No. from .....p**
  up to 8 °C-Lite can be connected

°CALEONbox Clima Heating and Cooling Controller
740o2o.Y1.22047.00196
AC100...240V, 50/60Hz, 920VA
CE Conforms to EN60730-2-9
4AT IP20 RoHS SOREL GmbH Mikroelektronik