

EasyLogic™ Sensors

CO₂ Transmitters

CL-AI-C2-SE



Product Description

The CL-AI-C2-SE is a wall-mount carbon dioxide (CO₂) transmitter designed for environmental monitoring and HVAC control applications in commercial, industrial and general buildings. The CL-AI-C2-SE ensures a building's air quality and energy efficiency.

Each device is an active sensor that converts a measurement into an analog output: 4 to 20 mA or 0 to 10 Vdc.

This sensor is ideal for:

- Controlling HVAC systems for improved comfort and energy savings
- Museums, schools, hospitals, workplaces and other locations requiring air quality control

Features

- Field calibratable, non-dispersive infrared technology-NDIR based, dual-channel device compensates for drift and deterioration for high-accuracy output
- Automatic Background Calibration for improved accuracy and field performance
- Range: 0 to 2000 ppm
- Accuracy: ± 50 ppm $\pm 3\%$
- Selectable output: 4 to 20 mA or 0 to 10 V
- Support DC and AC power supply
- Wall mounted
- Three colored LEDs, green, yellow and red, for easy status viewing
- Key component for the LEED green building program, WELL Building Standard and RESET Standard
- Compliance with ASHRAE standards for environmental control and indoor air quality

Available Products

Part Number	Description
CL-AI-C2-SE	Wall-mount CO ₂ transmitter, ± 50 ppm $\pm 3\%$

Specifications

Power Supply	
Operating voltage	24 VAC $\pm 10\%$ or 24 VDC $\pm 20\%*$
Frequency	50/60 Hz
Power consumption	≤ 2 VA
CO₂ Sensor	
Sensor type	NDIR, dual channel
Measuring range	0 to 2000 ppm
Accuracy	± 50 ppm $\pm 3\%$ of measured value (400 to 2000 ppm)
Repeatability	$\pm 2\%$
Analog output	DC power supply: 0 to 10V / 4 to 20mA AC power supply: 0 to 10V
Output power	Min. load resistance for 0 to 10V operation: 10k Ω Min. input voltage for 4 to 20mA operation: 250 Ω loop = 19.2 VDC; 500 Ω loop = 21.6 VDC
Time to first read	60s
ABC calibration	Support**
Field calibration	Support**
Response time	≤ 60 s T90
LED indicator	3 LEDs
Environment	
Operating temp.	-10 to 50 °C
Operating humidity	0 to 95% RH (non-condensing)
Storage temp.	-20 to 70 °C
Storage humidity	0 to 95% RH (non-condensing)
IP rating	IP30
Housing material	PC+ABS, UL94-V0
Regulatory Information	
Agency approvals	CE: EMC (EN61326-1) Green Premium, EU ROHS, China ROHS, REACH, RCM (Australia), UKCA (UK)
Weight	
Including packaging	140g

*Class 2. Connect all devices with proper polarity; AC power supply only supports 0 to 10V output.

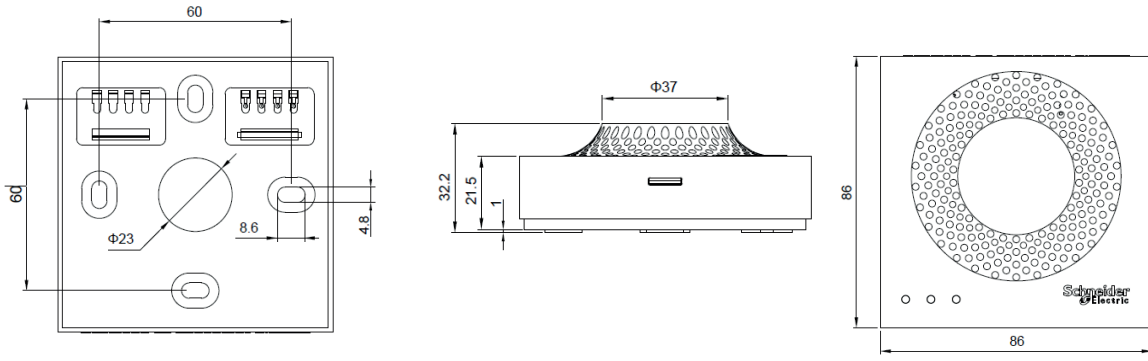
**See the Wiring section of this document for details.

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Life Is On

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Dimensions (mm)



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