

EasyLogic™ Sensors

Duct CO₂ Transmitters

CP-AI-C2-SE



Product Description

The CP-AI-C2-SE is a duct-mount CO₂ transmitter designed for environmental monitoring and HVAC control applications. This device is ideal for commercial, industrial and general buildings, ensuring air quality and energy efficiency. Each device features an active sensor that converts a measurement into an analog output: 4-20 mA or 0 to 10 Vdc.

This sensor is ideal for:

- HVAC system control for improved comfort and energy savings
- Hospitals, schools, museums and other workplaces requiring air quality control

Features

- Field calibratable, non-dispersive infrared CO₂ sensor
 - NDIR based, dual-channel device compensates for drift and deterioration for high-accuracy output
- Automatic Baseline Calibration for improved accuracy and field performance
- Selectable output: 4 to 20 mA or 0 to 10 Vdc
- Supports DC and AC power supplies
- Key component for the LEED green building program, WELL Building Standard and RESET® Standard*
- Compliant with ASHRAE standards for environmental control and indoor air quality

*Leadership in Energy and Environmental Design (LEED) is a registered trademark of the US Green Building Council. The WELL Building Standard is a trademark of the International WELL Building Institute in the United States and other countries.

Available Products

Part Number	Description
CP-AI-C2-SE	Duct-mount CO ₂ transmitter, ±50 ppm ±3%

Specifications

General	
Operating voltage	24 Vac ±10% or 24 Vdc ±20%*
Frequency	50/60Hz
Power consumption	≤2 VA
CO ₂ Sensor	
Sensor type	NDIR, dual channel
Measuring range	0 to 2000 ppm
Accuracy	±50 ppm ±3% of measured value (400 to 2000 ppm)
Repeatability	±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: 10kΩ 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
Response time	≤60s T90
Calibration**	Automatic Baseline Calibration Manual calibration
Environmental	
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	IP65
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	350 g

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

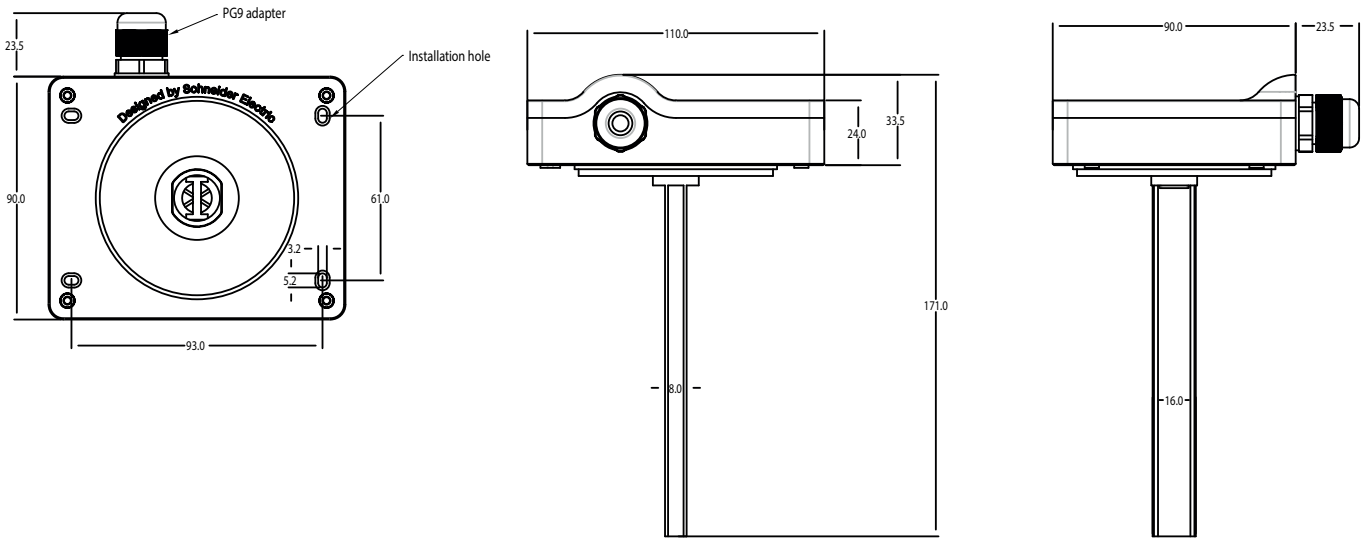
**For details, see the CO₂ Sensor Calibration section of this document.

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Life Is On

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Dimensions (mm)



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