

eSENSE (Disp)



Cost-optimised CO₂ sensor solution for residential and commercial buildings.

eSENSE™ is a CO₂ transmitter for climate control and fits directly on top of European electrical junction box standards. The unit is available both with and without display for fixed installation in the climate zone and helps you to save money by decreasing your energy consumption while creating a healthier indoor air climate.

The product measures the carbon dioxide concentration in the ambient air up to 2000 ppm and transforms the data into an analogue output.

eSENSE™ is an extremely cost-optimised sensor solution. By controlling the ventilation based on actual demand, it helps you decreasing the energy consumption and having a healthy indoor climate in both residential and commercial buildings. eSENSE™ family is also available to other normal applications or environments.

Standard specification

Measured gas	Carbon dioxide (CO ₂)
Operating principle	Non-dispersive infrared (NDIR)
Measurement range	0–2000ppm
OUT1	0–10VDC CO ₂
OUT2	2–10VDC / 4–20mA CO ₂
Accuracy (CO ₂) ¹	±30ppm ±3% of reading
Dimensions	100 x 80 x 28mm
Life expectancy	> 15 years
Operation temp. range	0–50 °C
Power supply	24V AC/DC
Power consumption	1W average
Communication	UART

Key benefits

- Maintenance-free
- Compliant with ANSI/ASHRAE Standard 62.1-2022
- Compliant with RESET grad B
- Compliant with WELL Building Standard® (WELL v2™)
- Internal automatic self-diagnostics
- Cost-optimised for connection to DDC



Note 1: Accuracy is specified over operating temperature range at normal pressure 101.3kPa. Specification is referenced to certified calibration mixtures. Uncertainty of calibration gas mixtures (±1%) is added to the specified accuracy for absolute measurements.

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Senseair

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an Asahi Kasei company