

eSENSE FAI



Cost-optimised CO₂ alarm solution for areas where carbon dioxide levels need to be monitored.

eSENSE FAI (Fresh Air Indicator) is an infrared and maintenance-free carbon dioxide alarm for installation in areas where the CO₂ levels need to be monitored, such as classrooms and offices. The product measures the carbon dioxide concentration in ambient air up to 2000 ppm and transforms the data into an analogue output.

eSENSE FAI alarms with sound and light when the levels exceed defined levels.

eSENSE FAI 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 – 2000 ppm
OUT1	0 – 10 V DC CO ₂
OUT2	0 – 2000 ppm
Accuracy (CO ₂) ¹	±30 ppm ±3% of reading
Dimensions	100 x 80 x 28 mm
Life expectancy	>15 years
Operation temperature range	0 – 50 °C
Operation humidity range	0 – 95% RH (non condensing)
Power supply	24 V AC/DC
Power consumption	<1 Watt average

Key benefits

- Audible alarm
 - Compliant with ANSI/ASHRAE Standard 62.1-2022
 - Compliant with RESET grad B
 - Compliant with WELL Building Standard® (WELL v2™)
 - One analogue output
 - Internal automatic self-diagnostics
 - Maintenance-free
 - Three LEDs: red, yellow and green
- Alarm configuration:
- | | |
|---------|--------------|
| Green: | 0 – 800 ppm |
| Yellow: | 0 – 1400 ppm |
| Red: | >1400 ppm |



Senseair