



- Three LED's;
  - Green: 0 - 800ppm
  - Yellow: 800 - 1400ppm
  - Red: >1400ppm
- Audible alarm
- Mute Button
- Measurement range from 0 - 3000ppm
- One analogue output (optional)
- Internal automatic self-diagnostics
- Maintenance-free in normal applications



## Description

The eSENSE™ -FAI is a new simple, low-cost, state-of-the-art infrared and maintenance-free carbon dioxide alarm for installation in areas where the carbon dioxide levels need to be monitored, such as classrooms and offices.

eSENSE™ -FAI measures the carbon dioxide concentration in the ambient air and alarms with sound and light when the levels are exceeding the defined levels.

## Applications

eSENSE™ -FAI is an extremely cost-optimised sensor solution for climate monitoring in, for example, classrooms and offices.

Adequate ventilation increases productivity and ability to learn according to many studies. It can also reduce the risk of temporary sickness and downtime. Measuring CO<sub>2</sub> gives a good indicator of when "fresh" outside air must be supplied to the occupants for acceptable indoor air quality. Ventilation will then be based on actual demand. This helps decrease energy consumption and maintain a healthy indoor climate.

A CO<sub>2</sub> concentration below 1000ppm should always be the aim.

## Features

SenseAir's patented state-of-the-art gold-plated non-dispersive infrared (NDIR) waveguide technology offer reliable measurements.

The eSENSE™ -FAI has a unique 'traffic light' indication system for CO<sub>2</sub> levels. Displaying green under normal condition, the colour will raise to yellow and then red upon higher concentrations of CO<sub>2</sub>.

An audible alarm is also fitted to this unit, which can be muted for thirty minutes using the switch on the side.

## Technical Specifications

Power input: 24V AC / DC +/- 20%, 50Hz

Power consumption: <1W average

Sensor: Gold-plated non-dispersive infrared sensor

Measurement range: 0 - 3000ppm

Accuracy: +/- 30ppm +/- 3% of reading

Response time: < 10 seconds

Output: 0 - 10V DC for 0 - 2000ppm

Audible alarm: 50 decibels

Operating temperature: 0°C to 50°C

Storage temperature: -40°C to 70°C

Warm-up time: <1 minute