

Carbon Dioxide (CO₂) Monitor



Description

This essential safety device monitors the amount of carbon dioxide in enclosed spaces and gives quick indication if increased ventilation is needed to improve air quality.

Poor air quality, particularly in continuously occupied and enclosed spaces, e.g. bedrooms, can lead to complaints of drowsiness and headaches.

Installation is recommended by the Scottish Technical Handbook – Domestic – Environment 3.14.2

Features

- Display shows carbon dioxide level in ppm
- Pressing the button shows average CO₂ level over the past 8 and 24 hour periods, and highest level over previous 24 hours
- Display has traffic light colours indicating action required: green (no action required), amber (improve ventilation) and red (improve ventilation further)
- Threshold ppm for display changing from green to amber and red can be customised by the specifier and installer
 - green / amber threshold 700 to 1000ppm
 - amber / red threshold 100 to 400ppm above green/amber threshold
- Readings are logged every 10 minutes
- Surface mounting, or fixes to 1g flush back box
- Typical 10-year lifespan
- 2-year guarantee

Range

Carbon Dioxide (CO₂) Monitor 1141

Standards

- LVD, EMC, RoHS

Technical Specification

CO ₂ range	0 – 5000 ppm
CO ₂ accuracy	±50 ppm
Display resolution	1 ppm
Response time	<2 minutes
Warm-up time	<1 min.
Rated voltage	240Vac
Power consumption	15mA
Rated temperature	0 – 50°C
Humidity	0 – 95% RH
IP rating	IP40
Housing material	Flame retardant ABS
Dimensions (h/w/d)	125 x 86 x 36mm
Mounting height	1.2 – 1.5m

Typical CO₂ Levels

250-350ppm	Normal background level in outdoor ambient air
350-1,000ppm	Concentrations typical of occupied indoor spaces with good air exchange
1,000-2,000ppm	Complaints of drowsiness and poor air
2,000-5,000 ppm	Stale, stuffy air. Headaches, sleepiness and stagnant, poor concentration, loss of attention, and slight nausea may also be present