

Carbon Dioxide (CO₂) and Temperature Monitor



Description

The Carbon Dioxide Monitor, monitors the amount of carbon dioxide in enclosed spaces within your home and gives quick indication if increased ventilation is needed to improve air quality. It has the additional feature of monitoring and displaying the ambient temperature.

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

- Same size as a standard plateswitch and fits neatly within a 35mm flush back box
- Two-part assembly, mounting plate can be installed at 2nd fix with monitor head installed later
- 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
- Button has traffic light colours indicating if action is required
- Threshold ppm for display; can be customised by the specifier and installer
- Display shows ambient temperature
- 2-year guarantee

Range

Carbon Dioxide (CO₂) & Temperature Monitor 1142

Technical Specification

| | |
|--------------------------|---------------------|
| CO ₂ range | 0 – 9999 ppm |
| CO ₂ accuracy | ±40 ppm |
| Display resolution | 1 ppm |
| Temperature display | Yes (°C) |
| Response time | <2 minutes |
| Warm-up time | 30 Seconds |
| 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) | 86 x 86 x 15mm |
| Mounting height | 1.4 – 1.8m |
| Mounting Box | 1g 35mm |

No user serviceable parts

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 |

Compliance

- LVD, EMC, RoHS