

Internal Wall Mounted Carbon Monoxide Sensor

Features

- 4-20mA Output
- Wide supply voltage range
- Tamperproof lid



Specification

Output ranges:

0-100ppm

0-1000ppm

Output	4-20mA
Supply voltage	10 to 30Vdc
Maximum load	700Ω @ 20mA, 24Vdc
Resolution	<0.3ppm
Sensitivity drift	<3% signal loss/year
Temperature range	-30 to +60°C
Pressure range	80 to 120kPa
RH range	15 to 90%RH non-condensing
Element life	2 years
Response time	t90 (s) from zero to 400ppm CO <30
Zero current	<± 2ppm equivalent in zero air
Storage	6 months @ 3 to 20°C
Protection	IP65 (housing only, suitable for internal mounting only)
Dimensions	55mm x 90mm dia.
Country of origin	UK

Product Codes

GS-S-CM100

0-100ppm Carbon Monoxide sensor

GS-S-CM1000

0-1000ppm Carbon Monoxide sensor



The **GS-S-CM** is designed for monitoring purposes, and should not be used in safety applications.

Technical Overview

The GS-S-CM series of wall mounting Carbon Monoxide (CO) sensors are a 4-20mA current loop powered sensor over ranges of 0 to 100ppm or 0 to 1000ppm Carbon Monoxide concentration. The sensor has a normal working life of 2 years in air, and needs to be powered up within 6 months of purchase.

Installation

1. Select a location which will give a representative sample of the prevailing space condition. The GS-S is not suitable for external mounting.

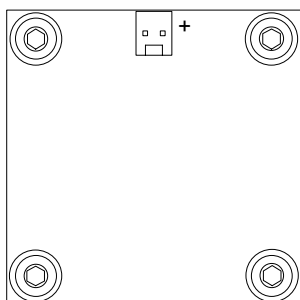
Avoid mounting the sensor in direct sunlight.

2. It is recommended that the unit be mounted with the cable entry at the bottom.
3. Remove the front cover by removing the tamperproof screw and twist the lid and separating from the main body.
4. Using the base of the housing as a template mark the hole centres. Drill two pilot holes at 85mm centres in the surface to which the sensor is to be mounted.
5. Fix the sensor to the wall using appropriate screws.
6. The housing is designed to make it easy for an electrical screwdriver to be used if desired.
7. Feed the cable through the gland and terminate. Leaving some slack inside the housing, tighten the cable gland onto the cable.
8. Replace the lid after the electrical connections have been made, and re-fit the tamperproof screw.

Connections

Red: 10 to 30Vdc

Black: 4-20mA output



Trend Scaling

(0-100ppm)		(0-1000ppm)	
Brange	-150	Brange	-1500
Trange	100	Trange	1000
Upper	100	Upper	1000
Lower	0	Lower	0
Exp	3	Exp	4