

Wall Mount Carbon Monoxide Detector with LED Indication and Relay Output



Features

- User selectable relay output detection levels
- LED indication on CO levels
- Real time CO levels with measuring range of 0 to 500ppm

Specification

Range	0 to 500ppm
Output signals:	
Relay	Dry contact 24V @ 2A
Modbus RS485	19200bps, 15KV antistatic protection
Power supply	18 to 38Vac/dc
Consumption	2.5W
Sensor life	5 years, typical
Response time	<5 minutes, for 90% step change
Stabilization time:	
First time	36 Hours
Operational	10 Minutes
LED's	See page 2 for information
Environmental:	
Operational:	
Temp	0 to 70°C
RH	0 to 95% non-condensing
Storage :	
Temp	-40 to +70°C
CE Conformity	CE Marked
Housing:	
Material	ABS
Dimensions	100 x 80 x 28mm
Protection	IP30
Country of origin	China

Product Codes

GS-S-CO-LED

Carbon Monoxide detector with LED indication and relay output

GS-S-CO-LED-M

Carbon Monoxide detector with LED indication, relay output and RS484 output

Technical Overview

The GS-S-CO-LED has 6 LED indicator lights which change colour based upon concentration levels. This allows for easy visual awareness of the CO levels, with either a relay or RS485 interface output.

Installation

1. Select a location on a wall of the controlled space which will give a representative sample of the prevailing room condition.

Avoid sitting the sensor in direct sunlight, near diffusers and steam sources.

2. Gently remove the front cover from the back plate. The front plate is removed by pressing the tab at the top of the sensor with a flat bladed screwdriver. Gently slant the screwdriver and this will separate the front cover from the back plate.
3. Using the base as a template mark the hole centres and fix to the wall with suitable screws. Alternatively the base plate can be mounted on to a conduit box or a standard recessed back box.
4. Feed cable through the knockout in the base of the housing and terminate the cores at the terminal block. Install wiring into terminal blocks as required, and push excess wire back into wall or junction box.
5. Select the relay switching point using jumpers J1 & J2.
6. Ensure that the supply voltage is within the specified tolerances.
7. Replace the front cover to the base plate until a click is heard.
8. Power the unit, pre-commissioning checks can be made after 10 minutes. Full commissioning should not be carried out for at least 36 hours.
9. It is recommended that screened cable be used and that the screen should be earthed at the controller only. Care should be taken not to lay control signal wiring in close proximity to power or other cables which may produce significant electromagnetic noise.

LED Indication

1st Green LED	<20ppm
1st & 2nd Green LED's	>20ppm
1st Yellow LED	>50ppm
1st & 2nd Yellow LED's	>100ppm
1st Red LED	>200ppm
1st & 2nd Red LED	>300ppm

Relay Jumper Settings

Jumpers	CO Value	Status	
		ON	OFF
J1 = OFF J2 = OFF	50ppm	>55ppm	<45ppm
J1 = OFF J2 = ON	100ppm	>105ppm	<95ppm
J1 = ON J2 = OFF	300ppm	>305ppm	<295ppm
J1 = ON J2 = ON	500ppm	>505ppm	<495ppm

The default jumper position is 100ppm

Connections

