# GS-S-CO-LED

## Wall Mount CO Detector with LED's & Relay Output


## Features:

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

## Benefit:

- LED Visual indication on CO levels

## 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.

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## Specification:

| | |
|---|---|
| Measuring 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 min, for 90% step change |
| Stabilization time: | |
| First time | 36 Hours |
| Operational | 10 Minutes |
| LED's | See page 3 for information |
| Environmental: | |
| Operational: | |
| Temp | 0 to 70°C (32 to 158°F) |
| RH | 0 to 95% non-condensing |
| Storage: | |
| Temp | -40 to +70°C (-40 to 158°F) |
| CE Conformity | CE Marked |
| Housing: | |
| Material | ABS |
| Dimensions | 100 x 80 x 28mm (3.94 x 3.15 x 1.1") |
| Protection | IP30 |
| Country of origin | China |

CE

The products referred to in this data sheet meet the requirements of EU Directive 2004/108/EC

## Part 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

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# Installation:


Antistatic precautions must be observed when handling these sensors. The PCB contains circuitry that can be damaged by static discharge.

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.

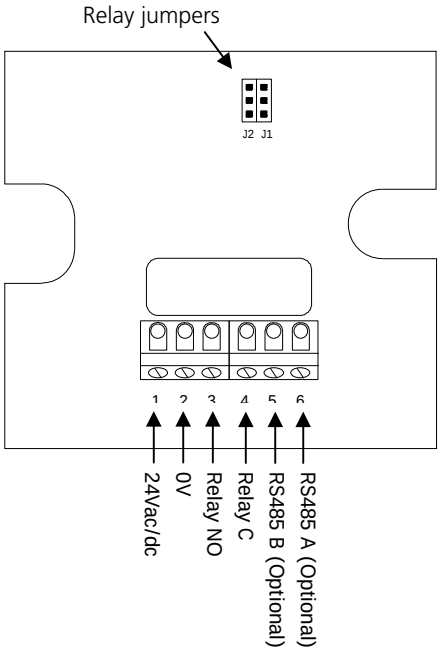
# LED Indication:

- 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 |

## Connections:



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