

Peel Carbon Monoxide Detection Systems

Product Specification/Technical Details

Model Number:	CO-150
Gases detected:	CO – Carbon Monoxide
Operating temperature:	-10 to +60 deg C (Continuous) -40 to +70 deg C (Intermittent)
Humidity rating:	5-99% RH non condensing
Warm-up time:	< 30 seconds
Alarm levels:	CO 200ppm +/-2% (On request can be calibrated to levels 0 - 10,000ppm. Conditions apply)
Response time:	Alarms are instant when the set gas levels are detected.
Power Input:	12/24 VDC
Power consumption:	2ma when in SAFE Mode <100ma when in ALARM Mode
Water Resistance:	Case -IP65 (as per installation to instruction requirements) Vents -Splash Proof 100 mesh
Unit Life:	Peel standard warranties apply for the main unit. The sensors used in this instrument are backed by the manufacturer of the sensor. All the instructions have been observed in the design process to maintain the sensor warranty.

Carbon Monoxide sensor selection

Sensor model:	TGS5042
Sensor life:	10 Years

- UL recognized component
- Meets UL2034, EN50291, and RoHS requirements

The sensor used for this product meets all the quality requirements for **ISO9001** as demonstrated by the manufacturer.

Figaro's **TGS5042** is a battery operable electrochemical sensor which offer several advantages over traditional electrochemical sensors.

Its electrolyte is environmentally friendly, it poses no risk of electrolyte leakage, can detect concentrations as high as 1% CO, operates in a range from -40° and +70°C, and it has lower sensitivity to interferant gases.

With a long life, good long term stability, and high accuracy, this sensor is the ideal choice for CO detectors

To maintain the level of precision each sensor is tested and validated for accuracy before it is used in production.

The sensors need to meet the laboratory calibrated values of the approved production reference.

Wiring/Fitting Instructions

Main Unit

Red: -12/24 VDC
White: -GND/Earth
Brown: -8.2V Trigger wire when alarm is activated (100ma Max)
Connect to Cabin Buzzer & Led Brown Wire

Cabin Buzzer & LED

Brown: -Connect to Brown wire from main unit
Black: -GND/Earth

To mount the Detector:

- Find a suitable position to mount the unit on the outside wall of the area monitoring Carbon Monoxide levels
- Drill 2 holes through the wall to match the vent/sensing ports in the rear of the detector case
- Run a small bead of silicone around the vent/sensing ports on the back of the case to prevent water entering the detector
- Screw/Bolt the detector to the wall

Note: The vent/sensing ports should remain open to air movement and should not be subject to direct spraying of water/liquids.

To mount dash LED:

- Drill a 8mm hole in desired location
- Feed LED through the hole from behind the Dash
- Fit the LED into the LED Holder
- Push Holder into the Dash