

GG-CO-EXP

EXPLOSION-PROOF CARBON MONOXIDE SENSOR



Key Features

- Explosion-proof enclosure for classified areas
- Carbon Monoxide specific electrochemical sensor technology
- 0-200 ppm factory range
- Electronics potted to eliminate internal corrosion
- Industry standard 24VDC, linear 4-20 mA output
- Operating temperature from -4°F to +122°F
- Accurately monitor CO levels for important action levels
- No false alarms from interference gases
- Real-time continuous monitoring for early CO detection

Carbon monoxide gas detection. Explosion-proof design.

The GG-CO-EXP is designed for detection of carbon monoxide vapors in hazardous areas. The standard detection range of 0-200 ppm provides real-time continuous monitoring of concentrations accurately down to 20 ppm with no false alarms.

The GG-CO-EXP utilizes a proven hydrogen sulfide specific electrochemical sensor for detecting poisonous CO gas concentrations. No false alarms due to cross-sensitivities from other gases, and no false alarms from temperature or humidity fluctuations.

The GG-CO-EXP provides an industry standard linear 4/20 mA output signal proportional to ppm concentration of carbon monoxide. Long sensor life with minimal span adjustment can be expected in most applications. The sensor is designed for simple calibration and the sensor head is easily field replaceable.

Applications

- Food Processing areas
- Warehouses
- Air Quality Monitoring
- Tank Rooms
- Ventilation Ducts
- Breweries
- Parking Garages
- Modified Atmosphere Packaging
- Bottling Plants
- Chemical Manufacturing

Benefits

- Low cost explosion protection
- No false alarms from interference gases
- Simple operation & calibration

AUTHORIZED DISTRIBUTOR:
GasDetectorsUSA.com
Houston, Texas USA
sales@GasDetectorsUSA.com
832-615-3588



Carbon monoxide gas is approximately the same weight as air and will mix evenly with the air in all spaces. For personnel protection, mount the sensor at a height in the breathing zone of the employees. It would typically be 4 to 5 feet off the ground, which also allows easy access. As a general rule of thumb, try to mount sensors within 30 feet of potential CO sources.

The **GG-CO-EXP** is intended for horn/strobe and ventilation activation, and is also useful for alarm outputs such as phone dialers and other alarm functions.

Typical sensor element life is 5+ years, with only a 20:1 cross-sensitivity to hydrogen. Field replaceable sensor element keeps long term maintenance simple and low cost. Every circuit board is potted to completely eliminate corrosion to the electronic components and copper tracing on the circuit board. An explosion-proof aluminum enclosure houses the transmitter.

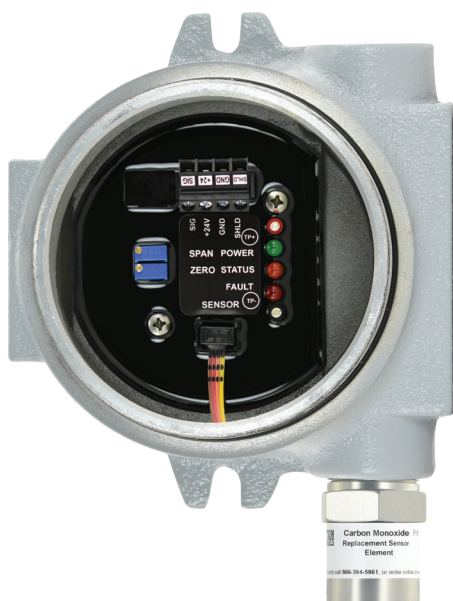
Ordering Information

The **GG-CO-EXP** is delivered calibrated and ready to install. The assembly includes sensor and potted transmitter mounted inside an explosion-proof enclosure. Use the model numbers below to order.

Order #: [GG-CO-200-EXP](#)
[GG-CO-RC-EXP](#) (replacement sensor)



replacement sensor element



SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

Input Power:

+24 VDC, 50 mA

Detection Principle:

Electrochemical

Detection Method:

Diffusion

Gases:

Carbon Monoxide (CO)

Ranges:

0-200 ppm

Output Signal:

Linear 4/20 mA (max input impedance: 700 Ohms)

Linearity:

+/- 0.5% of full-scale

Repeatability:

+/- 1% of full-scale

Response Time:

T50 = less than 10 seconds

T90 = less than 20 seconds

Accuracy:

+/- 5% of full-scale

Zero Drift:

Less than 0.1% of full-scale per month, non-cumulative

Span Drift:

Less than 2% per month

Temperature Range:

-4°F to +122°F (-20°C to +50°C)

Humidity Range:

5% to 95% non-condensing

Wiring Connections:

3 conductor, shielded, stranded, 20 AWG cable (General Cable C2525A or equivalent) up to 1500 ft

Terminal Block Plugs: (Field Wiring)

26-12 AWG, torque 4 lbs-in

Weight:

3.75 lbs

Dimensions:

6.75" high x 5.25" wide x 4.5" deep

Enclosure:

Copper-free aluminum body, epoxy powder coat finish, neoprene gasket, for hazardous areas.

NEC/CEC:

Class I, Division 1 & 2, Groups B, C, D

Class II, Division 1, Groups E, F, G

Class II, Division 2, Groups F, G

Class III

NEMA/EEMAC: 3, 4, 4X, 7BCD, 9EFG

UL Standard: 1203

CSA Standard: C22.2 No. 30

FM Classification No.: 3615

ATEX Certificate KEMA 02 ATEX 2265U

IEC Standards EN:60079-0, EN:60079-1, EN:60529

Warranty:

2 years (including sensor element)