

GG-CO-NO2

VEHICLE EXHAUST GAS SENSOR

**Key Features**

- CO/NO2 specific sensor technology. No false alarms
- Uses two electrochemical sensors
- 5+year CO, 2-3 year NO2 cell life average in most applications
- Industry standard linear 4-20 mA outputs
- Polycarbonate or stainless steel sensor enclosure
- Intelligent-design enclosure temperature control for improved cell life
- Sensor designed for any harsh environment from -4°F to +120°F
- Accurately monitor OSHA/NIOSH/ACGIH exposure limits
- Real-time continuous monitoring for early warning
- Detection range of 0-200 ppm CO, 0-10 ppm NO2

Carbon Monoxide and Nitrogen Dioxide detector combo.
Perfect solution for vehicle emissions ventilation control applications.

The Duo-Sense CO/NO2 sensor is equipped with both carbon monoxide and nitrogen dioxide sensing elements to provide accurate readings of toxic levels, with no false alarms. Useful for ventilation activation and other audio/visual signaling devices.

Each GG-CO-NO2 sensor comes equipped with an intelligent internal temperature control designed to perform in the harshest of areas. The controlled environment provides optimum moisture control for extended cell life. The high-quality injection-molded polycarbonate enclosure offers excellent chemical corrosion protection and high impact resistance.

The GG-CO-NO2 provides two industry standard linear 4-20 mA output signals compatible with most gas detection systems and PLCs. The output signals are not affected by drastic temperature or humidity variations. Expect an average cell life of 5+years for CO and 2-3 years for NO2 in most applications.

Applications

- Parking garages
- Loading Docks
- Air Quality Monitoring
- Underground Storage
- Vehicle Maintenance Buildings
- Ventilation Ducts
- Tunnels
- Car Dealerships

Benefits

- Low cost
- Simple operation
- Rugged and reliable

Optional Equipment - Warehouse Mounting Kit

Make mounting easy and protect the sensor from damage with the Wall Plate and Safety Cage Kit. Kit also includes 1/2" LB conduit body and 36" straps for pillar mounting.



One unit for both toxic gases

Designed for parking garages, vehicle maintenance buildings, and other spaces where toxic combustion engine exhaust poses a risk to personnel. The Duo-Sense CO/NO2 sensor detects gas in the concentration ranges for OSHA/NIOSH/ACGIH compliance.

The standard **GG-CO-NO2** sensor is designed to work anywhere, and at a lower base-model price than most competing models. Each circuit board is sealed forever in potting compound, protecting electronic components and copper tracing from corrosion. A specially vented polycarbonate (or stainless steel) enclosure protects the sensor from accidental damage.

Each GG-CO-NO2 detector monitors a 50' radius (7,500 square ft).

Refer to Uniform Mechanical Code, Uniform Building Code and other authorities having jurisdiction for ventilation requirements, along with audio/visual and other alarm notification requirements.

Ordering Information

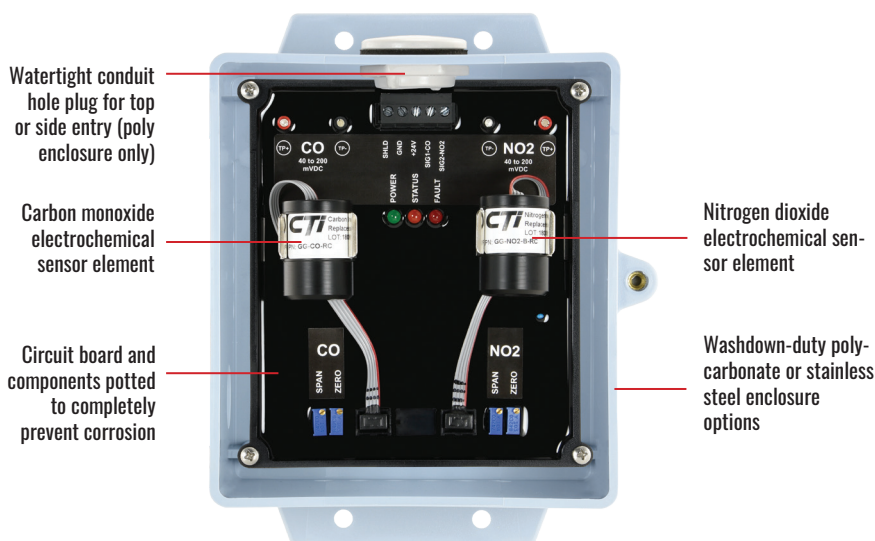
The **GG-CO-NO2** is delivered calibrated and ready to install. Use the model numbers below to order.

Order #: [GG-CO-NO2](#) (standard polycarbonate enclosure)
[GG-CO-NO2-WH](#) (warehouse kit + sensor)

[GG-CO-RC](#) (carbon monoxide replacement cell)
[GG-NO2-B-RC](#) (nitrogen dioxide replacement cell)



Warehouse kit option



SPECIFICATIONS

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

Input Power:

+24 VDC, 130 mA

Detection Principle:

Electrochemical

Detection Method:

Diffusion

Gases:

Carbon Monoxide (CO)
 Nitrogen Dioxide (NO2)

Ranges:

0/200 ppm (CO)
 0/10 ppm (NO2)

Output Signal:

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

Linearity:

+/- 1% 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 value, but dependent on calibration gas accuracy and time since last calibration

Zero Drift:

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

Span Drift:

Generally less than 2% per month (CO)
 Generally less than 5% per month (NO2)

Temperature Range:

-4°F to +122°F (-20°C to +50°C)

Humidity Range:

5% to 100% condensing

Wiring Connections:

4 conductor, shielded, stranded, 18 AWG cable (General Cable C2543A or equivalent) up to 1500 ft

Terminal Block Plugs: (Field Wiring)

12-26 AWG, torque 4 lbs-in

Enclosure:

NEMA 3RX injection-molded, washdown-duty polycarbonate sensor housing with hinged lid and captive screw. For non-classified areas. Optional 316 18 GA, NEMA 3RX washdown-duty stainless steel housing with hinged lid and captive screw. For non-classified areas

Dimensions:

7.5" high x 6.5" wide x 3.75" deep

Weight:

3 lbs

Warranty:

2-years (including sensor elements)