GasGuard CO   CARBON MONOXIDE SENSOR

Key Features

- CO specific electrochemical sensor technology. No false alarms
- 5-year cell life average in most applications
- Industry standard linear 4/20 mA output
- Corrosion, weather, and chemical resistant polycarbonate sensor enclosure
- Intelligent-design enclosure temperature control for improved cell life
- Sensor designed to adapt to any harsh environment from -20°F to +120°F
- Accurately monitor OSHA's PEL, STEL, and IDLH setpoints
- Real-time continuous monitoring for early warning.
- Detection range of 0-200 ppm Carbon Monoxide

Long cell life. Simple operation.
Rugged enough to survive the harshest industrial environments.

The GasGuard CO utilizes proven electrochemical sensor technology for fast and accurate leak detection. The standard detection range of the GasGuard CO provides real-time continuous monitoring of carbon monoxide concentrations accurately down to 10 ppm, with no false alarms.

Each GasGuard CO 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 GasGuard CO provides an industry standard linear 4/20 mA output signal compatible with most gas detection systems and PLCs. The output signal is not affected by drastic temperature variations such as washdowns, defrost cycles, etc. Expect an average of 5-years of cell life for most applications.

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
- Simple operation
- Rugged and reliable

CALIBRATION TECHNOLOGIES Inc.

GASGUARD CO

Easy ordering

The standard **GasGuard CO** sensor is designed to work anywhere, and at a lower base-model price than most competing models. With only one sensor for any application; designing, ordering, and maintaining your carbon monoxide monitoring system is simple.

Designed "Food Industry" tough

Developed for chemical washdowns of processing areas, the **GasGuard CO** is prepared to survive in just about any harsh industrial condition. Each circuit board is sealed forever in potting compound, protecting electronic components and copper tracing from corrosion. A specially vented chemical-resistant polycarbonate enclosure protects the sensor from accidental damage, weather, and even direct hose-hits from clean-up crews.

Ordering Information

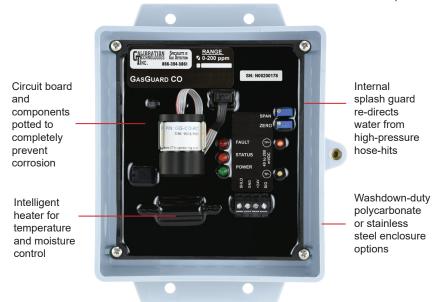The **GasGuard CO** is delivered calibrated and ready to install. Use the model numbers below to order.

Order #: GG-CO-200 (standard)
GG-CO-200-ST (stainless enclosure)
GG-CO-RC (replacement cell)

Stainless steel enclosure option

Circuit board and components potted to completely prevent corrosion

Intelligent heater for temperature and moisture control

Internal splash guard re-directs water from high-pressure hose-hits

Washdown-duty polycarbonate or stainless steel enclosure options

---

SPECIFICATIONS

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

Input Power:
+24 VDC, 350 mA

Detection Principle:
Electrochemical

Detection Method:
Diffusion

Gases:
Carbon Monoxide (CO)

Ranges:
0/200ppm (standard)
Custom ranges available. Call for more information

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

Linearity:
+/- .5% of full-scale

Repeatability:
+/- 1% of full-scale

Response Time:
T50 = less than 10 seconds
T90 = less than 20 seconds

Accuracy:
+/- 5% of 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:
Application dependent, but generally less than 2% per month

Temperature Range:
-20°F to +120°F (-28°C to +49°C)

Humidity Range:
5% to 100% condensing

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

Terminal Block Plugs (Field Wiring):
12-26 AWG, torque 4 lbs-in

Enclosure:
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

Certification:
ETL listed to UL standard 61010-1, and CSA standard C22.2 No. 61010-1-12

Warranty:
2 years (including replacement cell)