GG-CO₂

C777 GAS SENSOR CARBON DIOXIDE GG02

Key Features

- CO2 specific infrared sensor technology
- Industry standard linear 4/20 mA output
- Corrosion, weather, and chemical resistant sensor enclosures
- Sensor designed to adapt to any harsh environment from -60°F to +120°F
- Accurately monitor OSHA's PEL and STEL setpoints for personnel protection

CARBON DIOXIDE SENSOR

- Real-time continuous monitoring
- 0-3% range (0/30,000 ppm) allows setpoints at both critical levels (0.5% & 3.0%)
- 2-year warranty

Industrial strength CO2 monitoring for any harsh environment

The GG-CO2 utilizes proven infrared sensor technology for fast and accurate leak detection. With no moving parts and no cells to replace, the GG-CO2 provides real-time continuous monitoring and inexpensive long term operating costs. The GG-CO2 is carbon dioxide specific, so false alarms from floor cleaners and food off-gassing is non-existent. The output signal is also not affected by moisture or drastic temperature variations such as washdowns, defrost cycles, etc. The GG-CO2 provides an industry standard linear 4/20 mA output signal compatible with most gas detection systems and PLCs. The high-quality polycarbonate or optional stainless steel enclosures offer excellent chemical corrosion protection and high impact resistance.

Applications

- Wineries
- Food Processing areas Br
- Indoor Air Quality
- Bottling Plants
- Breweries
- Perimeter MonitoringChemical Plants
- Refrigeration Systems
 Ivestock/Poultry stunning

Benefits

- Versatile for any application
- Low cost

- Simple operation
- Rugged and reliable







The standard **GG-CO2** sensor comes equipped with a corrosion proof enclosure and adaptive temperature control designed to work anywhere. With only one sensor for any application; designing, ordering, and maintaining your CO2 monitoring system is easy. The 0/3% range (0/30,000 ppm) is broad enough to handle OSHA's recommended alarm levels (0.5% and 3.0%), providing plenty of upper range detection for high output systems.

Designed "Food Industry" tough

The **GG-CO2** is prepared to survive in just about any harsh industrial condition. Every circuit board is sealed forever in potting compound, which protects electronic components and copper tracing from corrosion. A specially vented chemical-resistant polycarbonate enclosure protects the sensor from accidental damage, weather, and direct hose-hits from clean-up crews. An 18 ga stainless steel sensor enclosure is also available for applications that require it.

Ordering Information

The **GG-CO2** is delivered calibrated and ready to install. Use the model numbers below to order.

Order #:	GG-C02-1% GG-C02-3% (standard) GG-C02-5% GG-C02-20% GG-C02-100% GG-C02-xxx-ST (stainless enclosure) GG-C02-xxx-DM (duct mount)	Standard polycarbonate enclosure
		Mounting flanges for easy installation
	R VOICE STATE R VOIC	Splashguard redirects water from hose-hits
		Single-screw door latch for easy access

SPECIFICATIONS

Input Power: +24 VDC, 350 mA

Detection Principle: (NDIR) Non-Dispersive Infrared

Detection Method: Diffusion

Gas: Carbon Dioxide (CO2)

Range: 0/1% 0/3% (standard) 0/5%

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

Linearity: +/- 3% of full-scale **Repeatability:** +/- 3% of full-scale

Response Time: T50 = less than 30 seconds T90 = less than 60 seconds

Accuracy: +/- 5% of value, but dependent on calibration gas accuracy

Zero Drift: Less than 1% of full-scale per month, non-cumulative

Span Drift: Less than 1% of full-scale per month, non-cumulative

Temperature Range: -60°F to +120°F (-51°C to +49°C)

Humidity Range: 5% to 100% condensing Wiring Connections:

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

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

Completely potted circuit board for corrosion protec-

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

tion

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

Certification:

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

Warranty: 2 years



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