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
• 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
• Indoor Air Quality
• Bottling Plants
• Breweries
• Refrigeration Systems
• Perimeter Monitoring
• Chemical Plants
• Livestock/Poultry stunning

Benefits

• Versatile for any application
• Simple operation
• Low cost
• 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-CO2-1%
- GG-CO2-3% *(standard)*
- GG-CO2-20%
- GG-CO2-100%
- GG-CO2-xxx-ST *(stainless enclosure)*
- GG-CO2-xxx-DM *(duct mount)*

**SPECIFICATIONS**

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

- **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:**
  - 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:**
  - 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