

GG-O₃-A

OZONE SENSOR

**Key Features**

- 2-year warranty, including replacement sensor element
- Electronics are potted to completely eliminate corrosion in wet environments
- Ozone specific electrochemical sensor technology
- No more special-order guesswork or added costs
- 24Vdc power with industry standard linear 4/20 mA output
- Corrosion, weather, and chemical resistant polycarbonate sensor enclosure
- Intelligent-design temperature controlled enclosure for improved cell life
- Sensor designed to adapt to any harsh environment from 0°F to +120°F
- Accurately monitor OSHA's PEL AND STEL setpoints
- Detectable range: 0-1 ppm

Early warning Ozone monitoring for water bottlers

The GG-O3-A ozone sensor utilizes proven electrochemical sensor technology for fast and accurate detection. The standard detection range of the GG-O3-A provides real-time continuous monitoring of ozone concentrations down to 0.1 ppm.

The intelligent internal temperature control of the GG-O3-A provides optimum temperature control for extended cell life. The high-quality injection-molded polycarbonate enclosure offers excellent chemical corrosion protection and high impact resistance.

The GG-O3-A 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 or other atmospheric conditions.

Applications

- Bottling Plants
- Photocopier / Laser Print Centers
- Tank Storage
- Ozone Generation Stations
- Water Treatment

Benefits

- Low cost
- Rugged and reliable
- Simple operation

The standard **GG-03-A** sensor is designed to work anywhere, and at a lower base-model price than most competing models. With only one electrochemical sensor for any application, designing, ordering and maintaining your ozone detection system is less hassle.

Designed “Food Industry” tough

The **GG-03-A** sensor is prepared to survive in just about any harsh industrial condition. Every 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. Stainless steel enclosures are available for applications which require them.

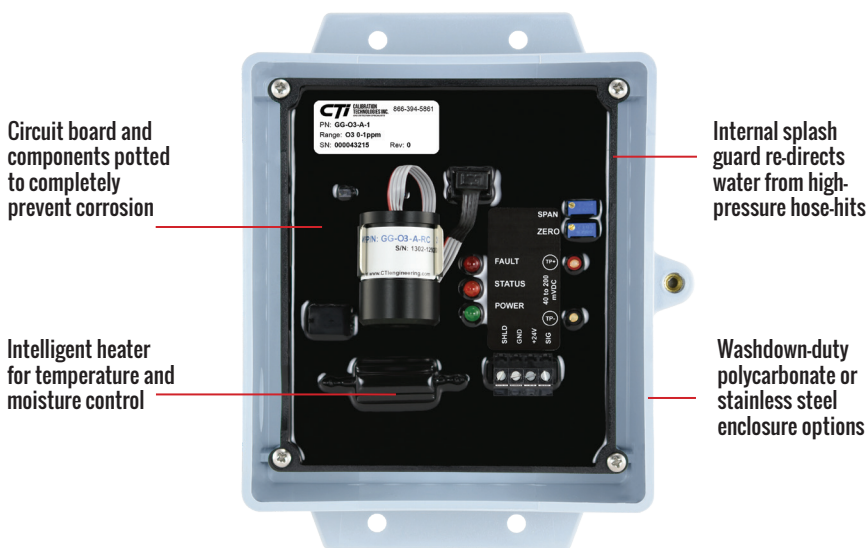
Ordering Information

The **GG-03-A** is delivered factory calibrated and ready to install. Use the model numbers below to order:

- Order #:** [GG-03-A-1](#) (standard)
[GG-03-A-1-ST](#) (stainless enclosure)
[GG-03-A-RC](#) (replacement cell)



Stainless steel enclosure option



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:

Ozone (O3)

Ranges:

0-1 ppm

Custom ranges available. Call for more information

Output Signal:

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

Linearity:

+/- 1% of full-scale

Repeatability:

+/- 1% of full-scale

Response Time:

T50 = less than 120 seconds

T90 = less than 180 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 3% per month

Temperature Range:

-0°F to +120°F (-18°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 (including sensor element)

