



### 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-O3-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-O3-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-O3-A** is delivered factory calibrated and ready to install. Use the model numbers below to order:

**Order #:** [GG-O3-A-1](#) (standard)  
[GG-O3-A-1-ST](#) stainless enclosure)  
[GG-O3-A-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:**  
Ozone (O<sub>3</sub>)

**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:**  
SGS listed to UL 61010-1, and CSA C22.2 No. 61010-1-12

**Warranty:**  
2 years (including sensor element)

