

GASGUARD O₃

OZONE SENSOR



Key Features

- Ozone selective electrochemical sensor technology.
- Industry standard linear 4/20 mA output
- Corrosion, weather and chemical resistant polycarbonate sensor enclosure
- Electronics completely sealed in potting compound to protect against corrosion
- Intelligent-design enclosure temperature control for improved cell life
- Sensor designed to adapt to any harsh environment from 0°F to +120°F
- Real-time continuous monitoring for early detection of toxic concentrations.
- Accurately monitor OSHA's PEL, STEL setpoints for personnel protection
- Detectable range: 0-1 ppm

Early warning Ozone monitoring for water bottlers

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

The intelligent internal temperature control of the GasGuard O3 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 GasGuard O3 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
- Tank storage
- Water treatment
- Photocopier / laser print centers
- Ozone generation stations

Benefits

- Low cost
- Simple operation
- Rugged and reliable

GASGUARD O₃

The standard **GasGuard O₃** sensor is designed to work anywhere, and at a lower base-model price than most of our competition. With only one electrochemical sensor for any application, designing, ordering and maintaining your ozone detection system is less hassle.

Designed “Food Industry” tough

The **GasGuard O₃** is prepared to survive in just about any harsh industrial condition, including acid washdown of processing areas. 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.

Ordering Information

The **GasGuard O₃** is delivered calibrated and ready to install. Use the model numbers below to order.

GG-O3

GG-O3-RC (replacement cell)



SPECIFICATIONS

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE

DETECTION PRINCIPLE:

Electrochemical

DETECTION METHOD:

Diffusion

GASES:

Ozone (O₃)

RANGES:

0/1 ppm

OUTPUT SIGNAL:

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

POWER SUPPLY:

+24 VDC, 250 mA

RESPONSE TIME:

T₅₀ = less than 60 seconds

T₉₀ = less than 180 seconds

ACCURACY:

+/- 5% of value, but dependant 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 dependant, but generally less than 3% per month

LINEARITY:

+/- 0.5% of full-scale

REPEATABILITY:

+/- 1% of full-scale

WIRING CONNECTIONS:

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

ENCLOSURE:

Injection-molded NEMA 4X polycarbonate housing with hinge. Captive screw in lid. For non-classified areas.

TEMPERATURE RANGE:

0°F to +120°F (-29°C to +49°C)

HUMIDITY RANGE:

5% to 100% condensing

DIMENSIONS:

7.5" high x 6.5" wide x 3.5" deep

WEIGHT:

2 lbs