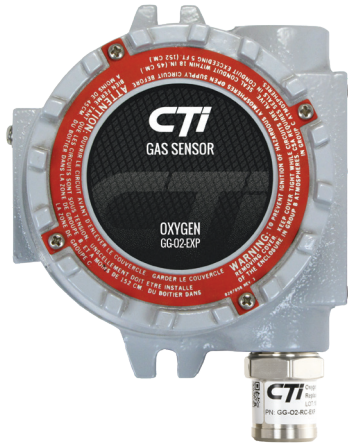


GG-O₂-EXPEXPLOSION-PROOF
OXYGEN SENSOR**Key Features**

- Explosion-proof enclosure for classified areas
- Oxygen specific electrochemical sensor technology
- Industry standard linear 4/20 mA output
- Electronics potted to eliminate internal corrosion
- Temperature and moisture control for improved cell life
- Sensor designed to adapt to any harsh environment from -4°F to +122°F
- Accurately monitor oxygen deficiency or enrichment levels
- Real-time continuous monitoring
- Detection ranges of 0-25% or 15-25% O₂ (volume)

Industrial oxygen level monitoring. Designed “food industry tough” with a 3-year sensor.

The GG-O₂-EXP utilizes a proven electrochemical oxygen sensor with a typical life-span of 3 years. With a large capacity electrolyte reservoir for exceptional cell life, the GG-O₂-RC-EXP electrochemical cell is designed with excellent chemical durability and is not affected by pressure changes or interference gases such as carbon dioxide.

Every GG-O₂-EXP sensor comes equipped with an internal temperature control designed to perform in the harshest of areas. The controlled environment provides temperature and moisture control for extended cell life.

The GG-O₂-EXP 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 such as washdown and defrost cycles, and is minimally affected by barometric pressure changes.

Applications

- Air Quality Monitoring
- Refrigeration Systems
- Confined Space
- Tank Rooms
- Food Processing
- Breweries

Benefits

- Low cost of ownership
- Simple operation
- Rugged and reliable



Durability and long life

The standard **GG-O2-EXP** sensor is designed to work anywhere, and at a lower base-model price than most competing models. With the rugged extended life cell, the **GG-O2-EXP** sensor will give you years of trouble-free operation resulting in an extremely low cost of ownership. Typical alarm set-points include a 19.5% alarm set-point for oxygen deficiency monitoring for personnel protection, and 23.5% for oxygen enrichment situations.

Designed "Food Industry" tough

From hot mechanical rooms, to acid washdowns of processing areas, the **GG-O2-EXP** 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. An explosion proof aluminum enclosure houses the transmitter.

Ordering Information

The **GG-O2-EXP** is delivered calibrated and ready to install. Use the model numbers below to order.

Order #: [GG-O2-0/25-EXP](#) (standard)
[GG-O2-15/25-EXP](#)

[GG-O2-RC-EXP](#) (replacement cell)



SPECIFICATIONS

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

Input Power:

+24 VDC, 40 mA

Detection Principle:

Electrochemical

Detection Method:

Diffusion

Gases:

Oxygen (O₂)

Ranges:

0/25% (volume)
 15/25% (volume)

Output Signal:

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

Pressure Limits:

0.5 to 1.5 Atmosphere

Linearity:

+/- 0.5% of full-scale

Repeatability:

+/- 1% of full-scale

Response Time:

T50 = less than 30 seconds
 T90 = less than 60 seconds

Accuracy:

+/- 2% of value, but dependent on calibration gas accuracy and time since last calibration

Zero Drift:

Less than 0.5% of full-scale per month, non-cumulative

Span Drift:

Less than 0.5% per month

Temperature Range:

-4°F to +122°F (-20°C to +50°C)

Humidity Range:

5% to 100% non-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:

Copper-free aluminum body, epoxy powder coat finish, neoprene gasket, for hazardous areas

Dimensions:

6.75" high x 5.25" wide x 4.55" deep

Weight:

3.75 lbs

Warranty:

2-years (including sensor element)