The GG-NO2-EXP is designed for detection of nitrogen dioxide vapors in hazardous areas. The standard detection range of 0-10 ppm provides real-time continuous monitoring of concentrations accurately down to 1 ppm with no false alarms.

The GG-NO2-EXP utilizes a proven nitrogen dioxide specific electrochemical sensor for monitoring toxic levels produced by diesel-powered heavy engines and other sources. No false alarms due to cross-sensitivities from other gases, and no false alarms from temperature or humidity fluctuations.

The GG-N02-EXP provides an industry standard linear 4/20 mA output signal proportional to ppm concentration of nitrogen dioxide. Long sensor life with minimal span adjustment can be expected in most applications. The sensor is designed for simple calibration and the sensor head is easily field replaceable.
Nitrogen dioxide is heavier than air and will tend to accumulate in low-lying areas in poorly ventilated rooms. For optimum personnel protection (representative concentration reading that an employee would be exposed to), mount the sensor at a height in the breathing zone of the employees. It would typically be about 4 to 5 feet off the ground, which also allows easy access. As a general rule of thumb, try to mount sensors within 30 feet of potential NO2 sources.

The GG-NO2-EXP is intended for horn/strobe and ventilation activation, and is also useful for alarm outputs such as phone dialers, bay doors and other alarm functions.

Typical sensor element life is 3 years, with minimal cross-sensitivity to other gases. Field replaceable sensor element keeps long term maintenance simple and low cost. Every circuit board is potted to completely eliminate corrosion to the electronic components and copper tracing on the circuit board. An explosion-proof aluminum enclosure houses the transmitter.

**Ordering Information**

The GG-NO2-EXP is delivered calibrated and ready to install. The assembly includes sensor and potted transmitter mounted inside an explosion-proof enclosure. Use the model numbers below to order.

**Order #:**
- GG-NO2.10-EXP
- GG-NO2.RC-EXP (replacement sensor)

**SPECIFICATIONS**

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

**Input Power:**
+24 VDC, 50 mA

**Detection Principle:**
Electrochemical

**Detection Method:**
Diffusion

**Gases:**
Nitrogen Dioxide (NO2)

**Ranges:**
0-10 ppm (standard)

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

**Linearity:**
+/- 0.5% of full-scale

**Repeatability:**
+/- 1% of full-scale

**Response Time:**
T50 = less than 45 seconds  
T90 = less than 90 seconds

**Accuracy:**
+/- 5% of full-scale

**Zero Drift:**
Less than 0.1% of full-scale per month, non-cumulative

**Span Drift:**
Less than 3% per month

**Temperature Range:**
-4°F to +122°F (-20°C to +50°C)

**Humidity Range:**
5% to 95% 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)
26-12 AWG, torque 4 lbs-in

**Weight:**
3.75 lbs

**Dimensions:**
6.75” high x 5.25” wide x 4.5” deep

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

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