GG-CL₂-EXP



Key Features

- Explosion-proof enclosure for classified areas
- Chlorine selective electrochemical sensor technology
- 0-5 ppm factory range
- Electronics potted to eliminate internal corrosion .
- Industry standard 24VDC, linear 4-20 mA output
- Operating temperature from -4°F to +122°F
- Accurately monitor OSHA's TWA & STEL levels for personnel protection

EXPLOSION-PROOF

CHLORINE SENSOR

- No false alarms from interference gases
- Real-time continuous monitoring for early leak detection

Toxic chlorine detection. Explosion-proof design.

The GG-CL2-EXP is designed for detection of chlorine gas in hazardous areas. The standard detection range of 0-5 ppm provides real-time continuous monitoring of concentrations accurately down to 0.5 ppm with no false alarms.

The GG-CL2-EXP utilizes a proven chlorine specifc electrochemical sensor for detecting toxic chlorine gas concentrations. These toxic fumes can be from storage tanks, sanitizing or other sources. No false alarms due to crosssensitivities from other gases, and no false alarms from temperature or humidity fluctuations.

The GG-CL2-EXP provides an industry standard linear 4/20 mA output signal proportional to ppm concentration of chlorine. 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.

Applications

- Compressor Rooms
 - Sea Vessels

- Refrigeration System Heat Treatment
- Cold Storage
- Pulp and Paper
- Chemical Plants

Tank Rooms

Breweries

Benefits

- · Low cost explosion protection
- No false alarms from interference gases
- Simple operation & calibration

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Chlorine gas is more than twice as heavy as 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 no higher than 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 CL2 leak sources.

The **GG-CL2-EXP** is intended for horn/ strobe and ventilation activation, and is also useful for alarm outputs such as phone dialers 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.

SPECIFICATIONS

Input Power: +24 VDC, 50 mA

Detection Principle: Electrochemical

Detection Method: Diffusion

Gases: Chlorine (CL2)

Ranges: 0-5 ppm (standard)

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

Linearity: +/- 0.5% of full-scale

Repeatability: +/- 1% of full-scale

Ordering Information

The **GG-CL2-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.

GG-CL2-5-EXP
GG-CL2-RC-EXP (replacement sensor)



replacement sensor element



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

Response Time: T50 = less than 30 seconds T90 = less than 60 seconds

Accuracy: +/- 5% of full-scale

Zero Drift: Less than 0.1% of full-scale per month, noncumulative

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. NEC/CEC: Class I, Division 1 & 2, Groups B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III NEMA/EEMAC: 3, 4, 4X, 7BCD, 9EFG UL Standard: 1203 CSA Standard: C22.2 No. 30 FM Classification No.: 3615 ATEX Certificate KEMA 02 ATEX 2265U IEC Standards EN:60079-0, EN:60079-1, EN:60529

Warranty:

2 years (including sensor element)