

GASGUARD Cl₂

CHLORINE SENSOR



Key Features

- Electronics completely potted to prevent corrosion in harsh, wet environments
- Chlorine specific electrochemical sensor technology. Absolutely no false alarms
- 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 -20°F to +120°F
- Real-time continuous monitoring for early detection of toxic concentrations.
- Accurately monitor OSHA's PEL, STEL and IDLH setpoints for personnel protection
- Detectable range: 0-5 ppm

Toxic chlorine gas detection designed 'food industry' tough

The GasGuard Cl₂ utilizes proven electrochemical sensor technology for fast and accurate detection. The standard detection range of the GasGuard Cl₂ provides real-time continuous monitoring of hydrogen concentrations accurately down to 0.5 ppm, with no false alarms.

The intelligent internal temperature control of the GasGuard Cl₂ 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 Cl₂ 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

- Process areas
- Tank storage
- Injection systems
- Semiconductor
- Sanitizing systems
- Air monitoring

Benefits

- Easy to order
- Low cost
- Simple operation
- Rugged and reliable

GASGUARD Cl₂

One sensor for any environment = low cost & easy ordering

The standard **GasGuard Cl₂** 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 chlorine detection system is less hassle.

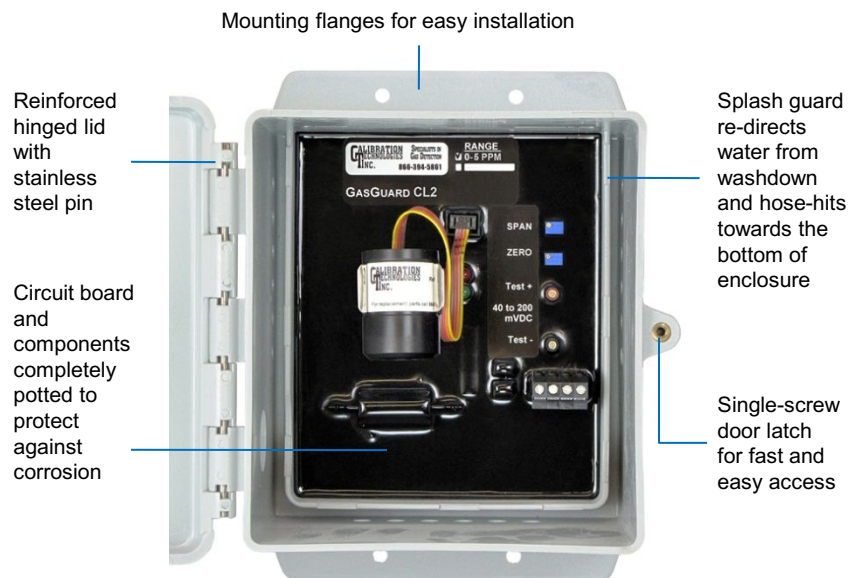
Designed "Food Industry" tough

The **GasGuard Cl₂** 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 Cl₂** is delivered calibrated and ready to install. Use the model numbers below to order.

GG-Cl₂
GG-CL2-ST (with stainless steel enclosure)
GG-Cl₂-RC (replacement cell)



SPECIFICATIONS

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

DETECTION PRINCIPLE:

Electrochemical

DETECTION METHOD:

Diffusion

GASES:

Chlorine (Cl₂)

RANGES:

0/5 ppm

OUTPUT SIGNAL:

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

POWER SUPPLY:

+24 VDC, 350 mA

RESPONSE TIME:

T₅₀ = less than 60 seconds

T₉₀ = less than 120 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 Hinged lid with captive screw. For non-classified areas.

TEMPERATURE RANGE:

-20°F to +120°F (-29°C to +49°C)

HUMIDITY RANGE:

5% to 100% condensing

DIMENSIONS:

7.5" high x 6.5" wide x 3.75" deep

WEIGHT:

2 lbs