

GASGUARD H₂S HYDROGEN SULFIDE SENSOR



Key Features

- H₂S specific electrochemical sensor technology. Absolutely no false alarms.
- Industry standard linear 4/20 mA output.
- Corrosion, weather and chemical resistant polycarbonate sensor enclosure.
- Intelligent-design enclosure temperature control for improved cell life.
- Sensor designed to adapt to any harsh environment from -40°F to +120°F.
- Accurately monitor OSHA's PEL, STEL and setpoints for personnel protection.
- Real-time continuous monitoring for early warning.
- Detectable range: 0-50 ppm

Long cell life. Simple operation.

And rugged enough to survive the harshest industrial environments.

The GasGuard H₂S utilizes proven electrochemical sensor technology for fast and accurate leak detection. The standard detection range of the GasGuard H₂S provides real-time continuous monitoring of carbon monoxide concentrations accurately down to 10 ppm, with no false alarms.

Every GasGuard H₂S sensor comes equipped with an intelligent internal temperature control designed to perform in the harshest of areas. The controlled environment provides optimum moisture control for extended cell life. The high-quality injection-molded polycarbonate enclosure offers excellent chemical corrosion protection and high impact resistance.

The GasGuard H₂S 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 and humidity variations during washdown. Expect an average of 4 years cell life for most applications.

Applications

- Sewer gas monitoring
- Paper mills
- Petroleum refineries
- Tanneries

Benefits

- Low cost
- Simple operation
- Rugged and reliable

GASGUARD H₂S

Easy ordering

The standard **GasGuard H2S** sensor is designed to work anywhere, and at a lower price than most of our competition. With only one sensor for any application, designing, ordering and maintaining your hydrogen sulfide monitoring system is less hassle.

Developed for corrosive environments, the **GasGuard H2S** 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. A specially vented chemical-resistant polycarbonate enclosure protects the sensor from accidental damage, weather and direct hose-hits from clean-up crews.

Ordering Information

The **GasGuard H2S** is delivered calibrated and ready to install. Use the model numbers below to order.

GG-H2S-50

GG-H2S-RC (*replacement cell*)



SPECIFICATIONS

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

DETECTION PRINCIPLE:

Electrochemical

DETECTION METHOD:

Diffusion

GASES:

Hydrogen Sulfide (H₂S)

Other gases available. Call for more information

RANGES:

0/50 ppm

OUTPUT SIGNAL:

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

POWER SUPPLY:

+24 VDC, 350 mA

RESPONSE TIME:

T₅₀ = less than 10 seconds

T₉₀ = less than 30 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:

Generally less than 2% 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 with hinged lid and captive screw. For non-classified areas.

TEMPERATURE RANGE:

-40°F to +120°F (-40°C to +49°C)

HUMIDITY RANGE:

5% to 100% condensing

DIMENSIONS:

7.5" high x 6.5" wide x 3.75" deep

WEIGHT:

3.0 lbs