

GG-NH3

Ammonia Gas Detector

- 2-year warranty, including replacement sensor element
- SAFECCELL technology checks electrical viability of the electrochemical cell
- Electronics are potted to completely eliminate corrosion in wet environments
- Ammonia specific electrochemical sensor technology. No false alarms
- Industry standard linear 4-20 mA output
- Corrosion, weather, and chemical resistant polycarbonate sensor enclosure
- Intelligent-design temperature controlled enclosure for improved cell life

OVERVIEW

The GG-NH3 utilizes proven electrochemical sensor technology for fast and accurate leak detection. The standard detection range of the GGNH3 provides real-time continuous monitoring of ammonia concentrations accurately down to 5 ppm, with no false alarms.

Every GG-NH3 sensor comes equipped with an intelligent internal temperature control designed to perform in the harshest areas. The controlled environment provides optimum moisture control for extended cell life. The highquality injection-molded polycarbonate enclosure offers excellent chemical corrosion protection and high impact resistance.

The GG-NH3 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 washdowns, defrost cycles, etc. SAFECCELL checks the electrical viability of the electrochemical cell and drops signal to 0.5 mA when the cell is failed or missing.



APPLICATIONS

- Food Processing areas
- Cold Storage
- Compressor Rooms
- Tank Rooms
- Ventilation Ducts
- Sea Vessels
- Refrigeration Systems
- Perimeter Monitoring
- Pulp and Paper
- Heat Treatment
- Breweries
- Chemical Plants

NH3

**Finally, one sensor designed to perform in all environments.
The intelligently adaptive GG-NH3 goes anywhere.**

Input Power:	+24 VDC, 350 mA
Detection Principle:	Electrochemical
Detection Method:	Diffusion
Gases	Ammonia (NH3)
Ranges	0/100 ppm (standard) 0/250 ppm 0/500 ppm 0/1000 ppm Custom ranges available. Call for more information
Output Signal:	Linear 4-20 mA (max input impedance: 700 Ohms)
Linearity:	+/- 1% of full-scale
Repeatability:	+/- 1% of full-scale
Response Time:	T50 = less than 30 seconds T90 = less than 60 seconds
Accuracy:	+/- 5% of value, but dependent on calibration gas accuracy and time since last calibration A11
Zero Drift:	Less than 0.1% of full-scale per month, noncumulative
Span Drift:	Application dependent, but generally less than 3% per month
Temperature Range:	-50°F to +122°F (-46°C to +50°C)
Humidity Range:	5% to 100% 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:	NEMA 3RX injection-molded, washdown-duty polycarbonate sensor housing with hinged lid and captive screw. For non-classified areas. Optional 316 18 GA, NEMA 3RX washdown-duty stainless steel housing with hinged lid and captive screw. For non-classified areas
Dimensions:	7.5" high x 6.5" wide x 3.75" deep
Weight:	2.15 lbs
Certification:	SGS listed to UL 61010-1, and CSA C22.2 No. 61010-1-12
Warranty:	2-years (including sensor element)

BENEFITS

- Versatile for any application
- Easy to order
- Low cost
- Simple operation
- Rugged and reliable

ORDERING INFORMATION

The GG-NH3 is delivered calibrated and ready to install. Use the model numbers below to specify your factory calibrated range. Keep in mind, each sensor can be field calibrated to any range listed below.

ORDER NR:

GG-NH3-100 (standard)

GG-NH3-250

GG-NH3-500



Stainless steel enclosure option

ONE SENSOR FOR ANY ENVIRONMENT (LOW COST & EASY ORDERING)

The standard GG-NH3 sensor is designed to work anywhere, and at a lower base-model price than most competing models. With only one electrochemical sensor for any application; designing, ordering, and maintaining your ammonia detection system is easy. We typically recommend a 0/100 ppm range for all personnel and product protection areas. Higher ranges (0/250, 0/500, 0/1000) are an option to suit higher alarm setpoint areas such as engine rooms.

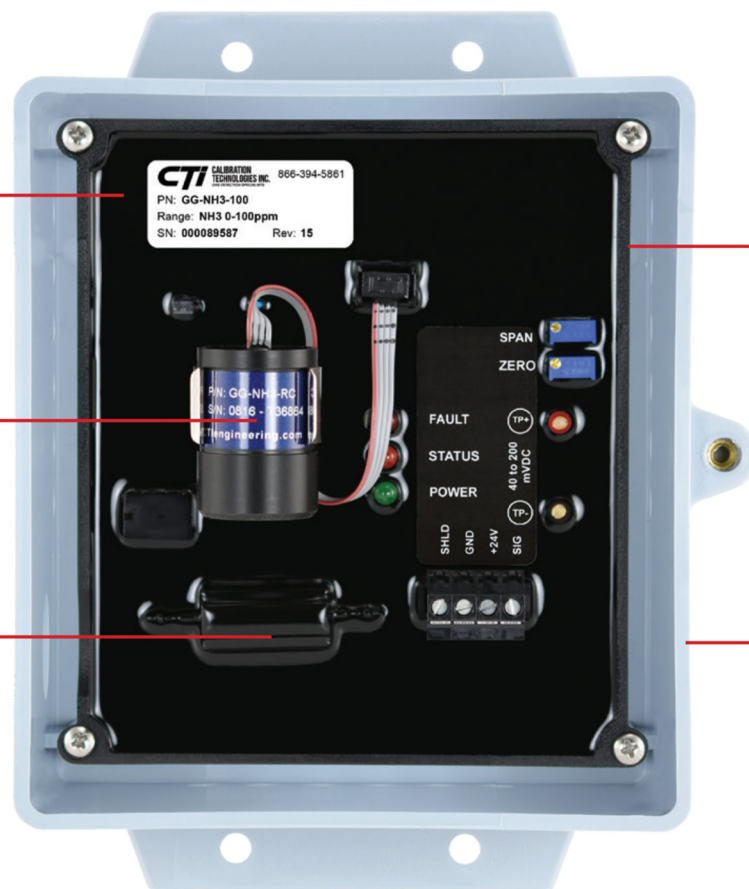
DESIGNED “FOOD INDUSTRY” TOUGH

From blast cells to engine rooms, to chemical washdowns of processing areas, the GG-NH3 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 even direct hose-hits from clean-up crews. Stainless steel enclosures are available for applications which require them.

Circuit board and components potted to completely prevent corrosion

SAFECCELL technology checks electrical viability of the electrochemical cell

Intelligent heater for temperature and moisture control



Internal splash guard re-directs water from high-pressure hose-hits

Washdown-duty polycarbonate or stainless steel enclosure options