

Industrial Gas Detection



PROTECTING PEOPLE
PROTECTING PROPERTY

Built for harsh conditions. Our sensors thrive where others fail.

- ✓ Designed to handle -50°F to +140°F operating temperatures.
- ✓ Encapsulated circuit board prevents corrosion and withstands high-pressure washdowns.
- ✓ Every sensor passes rigorous testing and includes a 2-year warranty.
- ✓ Products are in stock and ready for fast shipping.

Ammonia Sensor | 0-100 ppm

[More Information](#)

GG-NH3



- Low-range to mid-range ammonia sensor designed for washdown areas, compressor rooms, coolers, docks, cold rooms, freezers, etc.
- The ammonia specific electrochemical cell is designed to adapt to any harsh environment from -50°F to +140°F (-45°C to +55°C). The cell does not false alarm from moisture, extreme temperatures or other gases.
- Select from a list of available ranges (0-100, 0-250, 0-300, 0-500, & 0-1000ppm NH3). Custom ranges available upon request.
- Designed with weather-proof NEMA 3RX washdown-duty polycarbonate enclosure.
- Circuitry is sealed in a potting compound to protect against moisture and corrosion.

Ammonia Sensor | 0-20,000 ppm

[More Information](#)

GG-NH3-2%



- High-range ammonia sensor designed for catastrophic leak detection and electrical shutdown in compressor rooms. (0-10,000 ppm range also available.)
- The ammonia selective catalytic-bead sensor technology does not false alarm from moisture, extreme temperatures or other gases.
- Designed with weather-proof NEMA 3RX to be used outdoors or in washdown areas.
- Circuitry is sealed in a potting compound to protect sensitive components and copper tracing from moisture and corrosion.
- Use in same system with the low-range, GG-NH3 sensor for complete compressor room protection.

Ammonia Sensor | Vent Line

[More Information](#)

GG-VL2-NH3



- Mounted directly on the outdoor vent line, the GG-VL2-NH3 provides continuous monitoring of refrigeration system relief valves. Mounting kit is included.
- Catalytic Bead sensor, range: (0-1% [10,000ppm] NH3).
- Designed for harsh environments (-50°F to +140°F [-45°C to +55°C]) with industry standard linear 4/20 mA output.
- Circuit board sealed in potting material to protect sensitive sensor components and copper tracing from corrosion.
- Innovative sensor housing allows for simple & low-cost sensor replacement.
- 316 Stainless steel 18 gauge enclosure, with easy sensor replacement and calibration.

Synthetic Refrigerant Sensor

[More Information](#)

GG-R



- NDIR infrared sensor with infrared sensor technology.
- Circuit board sealed in potting material to protect sensitive sensor components and copper tracing from corrosion.
- Weatherproof NEMA 3RX washdown-duty polycarbonate enclosure safe for outdoors and washdown areas.
- Offered for a variety of popular synthetic refrigerants including, R123, R125, R134A, R22, R401A, R404a, R407A, R407C, R410A, R434A, R449A, R507A, R1234YF, R1234ZE, and many more.

Controller | 6-Channel

[More Information](#)

GG-6



- A full feature controller for medium to large gas detection systems provides a stand-alone system. The GG-6 can also integrate to, but operate independently of, a plant control system.
- Includes: graphic LCD display, six programmable 10A relay outputs, event logging, dual adjustable setpoints per channel, and power supply. Analog output board optional.
- System configuration through user-friendly, menu-driven LCD operator interface.
- Can accommodate up to three expansion modules (GG-XM) maxing out at 30 sensors total (8 sensors on each GG-XM).
- Weatherproof NEMA 4X polycarbonate enclosure safe for outdoors and washdown areas.

Controller | 2-Channel

[More Information](#)

GG-2



- The perfect controller for small gas detection systems or compressor rooms. The GG-2 can also integrate to, but operate independently of, a plant control system.
- Includes: graphic LCD display, six 10A relay outputs, event logging, dual adjustable setpoints per channel, discrete analog outputs, and power supply.
- System configuration through user-friendly, menu-driven LCD operator interface.
- Weatherproof NEMA 4X polycarbonate enclosure safe for outdoors and washdown areas.

Relay Module

[More Information](#)

RM420-LR



- 4-20 mA feed-through design maintains signal output function.
- Relay output with Form C dry contacts, 10A, 24VDC or 120VAC.
- Threaded insert allows for 1/2" or 1" conduit and fittings.
- LR rigid conduit body allows for outdoor or washdown installation.
- 10" 3-wire pigtail included for wiring to sensor.

Calibration Gas | Calibration Kit

[More Information](#)

17L & 34L Bottles



- Gas Detectors need to be calibrated every 6 months. Learn to calibrate by watching one of our online instructional videos, then purchase the necessary supplies from CTI.
- Most refrigerant gases are available in 17L bottles as well as 34L bottles.
- Most gases are in stock and available for quick and easy shipping worldwide.
- Calibration Kit includes: 0.8 LPM/300psi regulator for 17 liter bottle (hose included), calibration cups to fit all CTI sensors, and a rugged carrying case that holds two bottles of calibration gas and accessories.

Horn/Strobe | 24VDC

[More Information](#)

SHA-24



- The SHA series horn/strobe is designed to provide audible/visual signal for life safety and property protection.
- The weatherproof design for outdoor or washdown installations is corrosion and chemical resistant.
- 24 Volts DC operation (16-33V range).
- High intensity intermittent strobe flash.
- Blue, amber, red, or clear strobe lenses available.
- Field-selectable horn tone with continuous, temporal, or chime pattern.

StackLight

[More Information](#)

24VDC & 120VAC



- Available in both 24VDC and 120VAC configurations.
- Available in 1-Light, 2-Light, 3-Light, 4-Light, and 5-Light models with buzzer. Custom color configurations available (Green, Blue, Amber, Yellow, Red, White).
- Colored light modules display at-a-glance alarm status. Fluted light modules allow for easy viewing even in direct sunlight.
- User-selectable horn tone with continuous or temporal pattern. LEDs provide 50,000 hours working life. 24 VDC with low power consumption.
- Separate horn and light circuits allow for multiple wiring configurations. Corrosion, weather and chemical resistant. Safe for washdown areas.

Portables | BW Solo

[More Information](#)

BW-Solo-NH3



- The Solo provides accurate detection of ammonia from 0 to 1,000 ppm.
- Small, lightweight, and water resistant, the Solo is compact and comfortable to wear.
- The large LCD screen provides real-time readings with bright, wide-angle alarm bars.
- It features a 1 year battery life, four alarm levels and an internal, vibrating alarm for high noise areas.
- Also offered for CL2, CO, H2, H2S, NO2, and O2.

Portables | BW Ultra

[More Information](#)

BW Ultra



- Monitor up to 5 different gases with one unit.
- The integral motorized pump allows for remote sampling and fast response, while the large LCD screen allows for easy-to-read monitoring.
- Waterproof, relatively small, and lightweight concussion-proof enclosure.
- Datalogging is possible with the IntelliDoX reader.
- Includes a rechargeable lithium battery and a heavy duty alligator clip.

Carbon Dioxide Sensor

[More Information](#)

GG-CO2

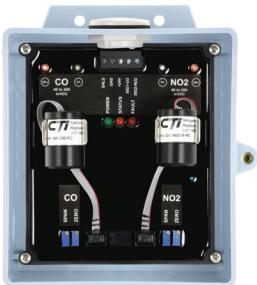


- NDIR infrared sensor with carbon dioxide specific infrared sensor technology.
- Circuit board sealed in potting material to protect sensitive sensor components and copper tracing from corrosion.
- Weatherproof NEMA 3RX washdown-duty polycarbonate enclosure safe for outdoors and washdown areas.
- Part Number (specify range): GG-CO2-1%, GG-CO2-3%, GG-CO2-5%, GG-CO2-20% GG-CO2-100%.

Carbon Monoxide and NO2 Sensor | DuoSense

[More Information](#)

GG-CO-NO2



- Electrochemical carbon monoxide sensor, (0-200 ppm CO). Electrochemical nitrogen dioxide sensor, (0-10 ppm NO2).
- Target gas specific electrochemical sensor technology. Industry standard linear 4/20 mA output.
- Circuit board sealed in potting material to protect sensitive sensor components and copper tracing from corrosion.
- Designed to adapt to any harsh environment from -20°F to +120°F.
- Weatherproof NEMA 3RX washdown-duty polycarbonate enclosure safe for outdoors and washdown areas.

Entrance Monitor

[More Information](#)

EM2-24 | EM2-120



- At-a-glance visual indication of gas concentrations.
- Offered as EM2-24 (24VDC feed through) or EM2-120 (120VAC stand-alone).
- Onboard 8A relay with adjustable alarm setpoint.
- Large 3" diagonal LCD display operates down to -40°F (-40°C).
- Electronics are potted to protect against water damage and corrosion.
- Industry standard linear 4/20 mA input/output works with CTI sensors or any other brand.
- Watertight IP68 enclosure designed for washdown areas and outdoors.

Stand-Alone Gas Detection Solution



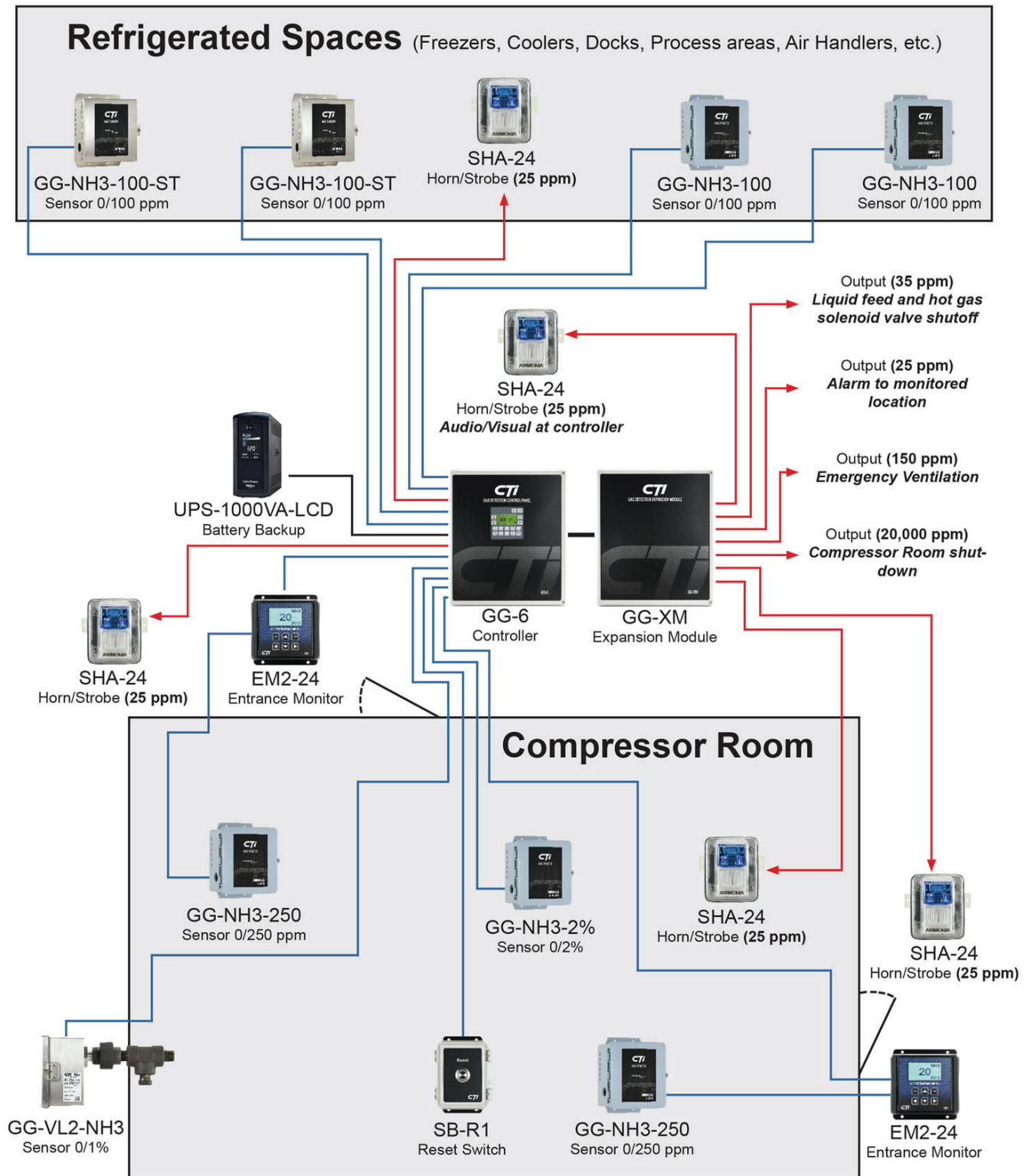
Combine an **EM2-120** and any gas sensor to create a simple, stand-alone detection solution.

Mount the sensor inside the room containing the potential gas leak and install the entrance monitor outside the main door to the room.

Program the system to respond to different levels of gas by turning on a fan, sounding an alarm, or triggering a warning light.

Ammonia detection system layout example

The example schematic below complies with IAR-2-2021, RAGAGEP, and most insurance carriers.



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