



GENESIS INTERNATIONAL, INC.

*SHERLOCK*TM

ELECTRO-CHEMICAL AMMONIA REFRIGERANT GAS SENSOR IN NEMA 3R WASHDOWN HOUSING



The **SHERLOCK** Ammonia (NH₃) Electro-Chemical Cell Refrigerant Gas Sensor was designed to monitor for the presence of Ammonia refrigerant gases within an enclosed space. The sensor is mounted within the space to be monitored and connected by cable to a **SHERLOCK** or *Wizard* Control. The "Electro-Chem" comes in a NEMA 3R Grey plastic box or a NEMA 3R Washdown Housing (Pictured). The Electro-Chem is a reliable method of monitoring for a level refrigerant gas leaks in environments that have high humidity.

The LED on the front of the sensor remains lit when the sensor is operating within parameters. The LED will flash when the sensor element needs to be changed. After changing the sensor element, a push button on the sensor will reset the timer for when the next time the element needs to be changed out.

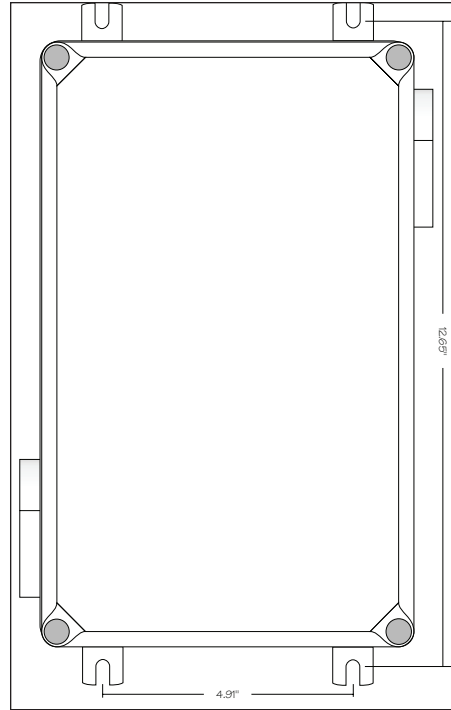
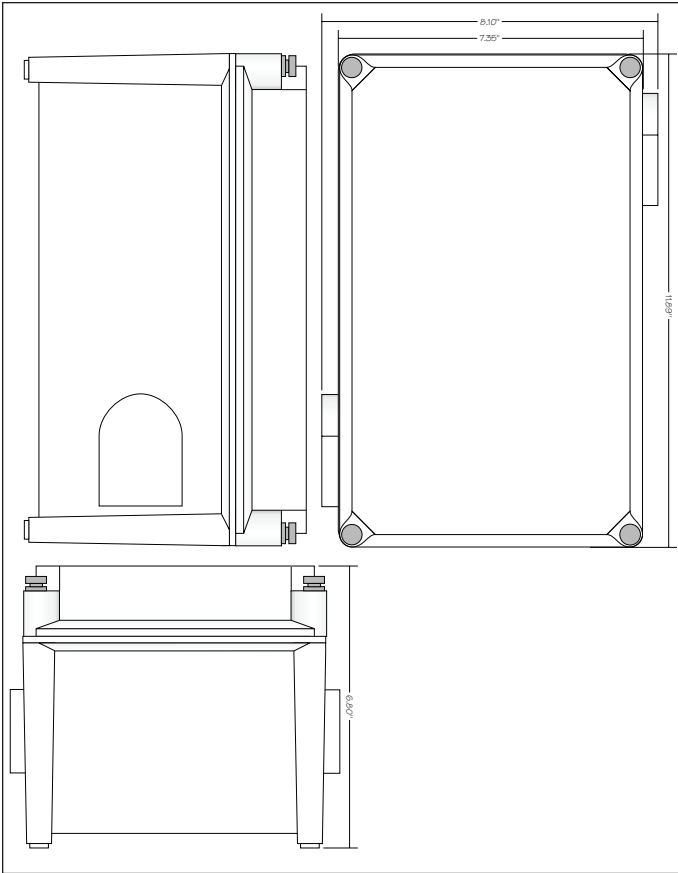
SPECIFICATIONS

ENCLOSURE RATING	NEMA 3R ABS Plastic Washdown
DIMENSIONS	12 x 7 x 6 (305x178x152) Inches (mm)
OPERATING ENVIRONMENT	
TEMPERATURE	
Machine Room Model	Part Number 60-0242 32°-110°F (0°-43.3°C)
Freezer Room Model	Part Number 60-0243 -40°-110°F (-40°-43.3°C)
HUMIDITY	
	0 - 90% RH Non-Condensing
POWER INPUT	12VDC, 0.1 Amps
OUTPUTS	Current Driven
EFFECTIVE RANGE	0 - 500 ppm
SENSITIVITY	±1 ppm at 77°F (25°C), 45% RH
RESOLUTION	1 ppm
RESPONSE TIME	Under Than 20 Seconds
CALIBRATION	Every 12 Months and after new sensor cell is installed.
WARM-UP TIME	Readings will stabilize in 30 Minutes
LIFE EXPECTANCY	Average of 24 Months, Sensor Cell can be Field Replaced

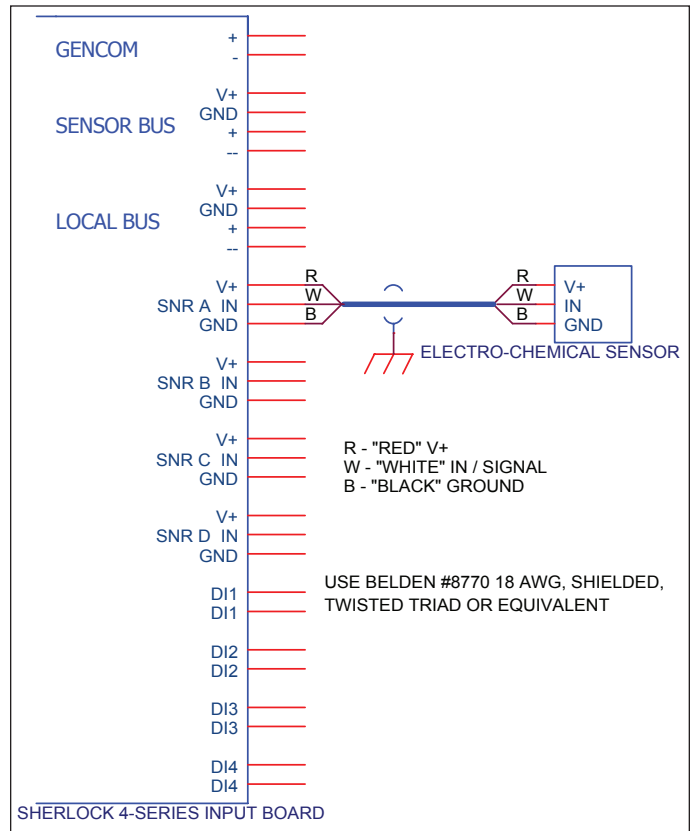
APPLICATIONS

Typical applications include:
Refrigeration Mechanical Rooms
Refrigerated Rooms
Food Processing Plants

MOUNTING & DIMENSIONS



SENSOR WIRING DIAGRAM



WARNING!!!! The Electro-Chemical sensor will pick up all types of ammonia gas including fumes from household cleaners containing ammonia and is not to be applied into all refrigerated storage applications where other toxic gases are used in the same room. Some installations are not suitable for Electro-Chemical technology. Misapplication may result in damage to sensor. Contact the factory for a specific list of approved applications.



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