

# Sensor Data Sheet

# SENSALERT PLUS



## Ammonia – Low Interferent (0 - 50 ppm) Part No. 823-0201-22 FM Performance Certified <sup>1</sup>

- Minimum Indicated Concentration ..... 2 ppm
- Repeatability ..... ± 2% of Reading
- Accuracy<sup>2</sup> ..... ± 5% of Reading
- Span Drift ..... < 10% change per year (typical)
- Response Time (Rise)<sup>3</sup> ..... T<sub>50</sub>: < 11 seconds  
T<sub>90</sub>: < 70 seconds, successive exposures
- Recovery Time (Fall)<sup>3</sup> ..... T<sub>10</sub>: < 60 seconds
- Temperature Range ..... -20° to 50°C (-4° to 122°F)
- Humidity Range (continuous) ..... 15–90 %RH, non-condensing
- Humidity Range (intermittent)..... 0–99 %RH, non-condensing
- Pressure Range ..... Ambient atmospheric, ± 1 psi
- Expected Sensor Life<sup>4</sup> ..... 3 years from Shipping Date
- Recommended Calibration Flow Rate ..... 500 to 1000 cc/min
- Oxygen Requirement ..... 1% by volume, minimum
- SensAlert 4-Channel Controller..... Compatible

<sup>1</sup> For use in an FM Approved SensAlert Plus Transmitter.  
<sup>2</sup> When unit is calibrated and serviced at recommended intervals.  
<sup>3</sup> Room Temperature.  
<sup>4</sup> Continuous or frequent exposure to target or interferent gases will shorten the life of the sensor.

### Cross-Interferences\*

Gas	Gas Exposure	Sensor Output
Alcohols	1000 ppm	None
Carbon Dioxide	5000 ppm	None
Carbon Monoxide	100 ppm	None
Hydrocarbons	% Range	None
Hydrogen	10,000 ppm	None
Hydrogen Sulfide	10 ppm	+1 ppm

\* Interference factors may differ from sensor to sensor, it is not advisable to calibrate with interferent gases.

## Special Calibration Considerations:

### **Ammonia – Low Interferent Sensor (PN° 823-0201-22)**

#### Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in the SensAlert<sup>Plus</sup> User Manual or SensAlert ASI User Manual.

#### Span Calibration

It is recommended that this sensor be calibrated at the half-scale concentration of 25 ppm. There are no special calibration considerations for this sensor. Complete span calibration instructions are provided in the SensAlert<sup>Plus</sup> User Manual or SensAlert ASI User Manual.

#### Test-on-Demand Cell

There is no Test-On-Demand cell available for this sensor.

#### Moisture Barrier & Moisture Concerns

The use of a SensAlert<sup>Plus</sup> Moisture Barrier is not recommended with this sensor. In cases where ambient moisture is high, it is recommended that the sensor undergo a 3 minute pre-exposure to ensure the gas is seasoned in prior to calibration.