

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE



**Ammonia
Low Interferent
(0 – 300 ppm)
Part No. 823-0201-41
FM Performance Certified ¹**

Minimum Indicated Concentration	9 ppm
Repeatability	± 5% of Reading
Accuracy ²	± 10% of Reading
Span Drift	< 10% change per 6 months (typical)
Response Time (Rise) ³	T ₅₀ : < 10 seconds T ₉₀ : < 50 seconds, successive exposures
Recovery Time (Fall) ³	T ₁₀ : < 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	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

¹ For use in an FM Approved SensAlert Plus Transmitter.
² When unit is calibrated and serviced at recommended intervals.
³ Room Temperature, seasoned system.

Cross-Interferences*

Gas	Gas Exposure	Sensor Output
Alcohols	1000 ppm	None
Carbon Dioxide	5000 ppm	None
Carbon Monoxide	100 ppm	None
Chlorine	5 ppm	None
Hydrogen	3000 ppm	None
Hydrogen Sulfide	10 ppm	+1 ppm
Sulfur Dioxide	0.5 ppm	-1 ppm

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

Special Calibration Considerations:

Ammonia (PN° 823-0201-41)

Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in the SensAlert^{Plus} User Manual or SensAlert ASI User Manual.

Span Calibration

It is recommended that this sensor be calibrated 150 ppm NH₃. The use of Teflon™ tubing is recommended with this gas to prevent gas absorption into the tubing walls. Complete span calibration instructions are provided in the SensAlert^{Plus} 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^{Plus} 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.