

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE®



**Ammonia – Low Interferent
(0 - 100 ppm)
Part No. 823-0201-21
FM Performance Certified ¹**

| | |
|---|--|
| Minimum Indicated Concentration | 3 ppm |
| Repeatability | ± 2% of Reading |
| Accuracy ² | ± 5% of Reading |
| Span Drift | < 10% change per year (typical) |
| Response Time (Rise) ³ | T ₅₀ : < 11 seconds |
| | T ₉₀ : < 70 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 ⁴ | 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.

⁴ 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° 823-0201-21)

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 at the half-scale concentration of 50 ppm. There are no special calibration considerations for this sensor. 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.