

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE



Carbon Monoxide – Low Interferent
(0 - 500 ppm)
Part No. 823-0219-42
FM Performance Certified¹



Minimum Indicated Concentration	15 ppm
Repeatability	± 5% of Reading
Accuracy ²	± 10% of Reading
Span Drift	< 12% change per year (typical)
Response Time (Rise) ³	T ₅₀ : < 10 seconds
	T ₉₀ : < 30 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
Ammonia	200 ppm	<1 ppm
Carbon Dioxide	5000 ppm	None
Hydrogen	18 ppm	1 ppm ¹
Hydrogen Sulfide	100 ppm	None ²
Nitric Oxide	17 ppm	<1 ppm
Nitrogen Dioxide	20 ppm	<1 ppm

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

¹ Based on a 950ppm exposure

² Until filter breakthrough

Special Calibration Considerations:

Carbon Monoxide – Low Interferent Sensor (PN° 823-0219-42)

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 250 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 acceptable with this sensor. In cases where a moisture barrier is used, it is recommended that the sensor be calibrated with the barrier in place and undergo a 60 second pre-exposure to ensure the gas is seasoned in prior to calibration.