

# Sensor Data Sheet

# SENSALERT PLUS

## SENSIDYNE®



**Carbon Monoxide – Low Interferent  
(0 - 100 ppm)  
Part No. 823-0219-41  
FM Performance Certified 1**



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

<sup>1</sup> Based on a 950ppm exposure

<sup>2</sup> Until filter breakthrough

## Special Calibration Considerations:

### **Carbon Monoxide – Low Interferent Sensor (PN° 823-0219-41)**

#### 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 50 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 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.