

# Sensor Data Sheet

# SENSALERT PLUS

# SENSIDYNE®



**Carbon Monoxide – Low Interferent**  
**(0 - 1000 ppm)**  
**Part No. 823-0219-43**  
**FM Performance Certified<sup>1</sup>**



- Minimum Indicated Concentration ..... 30 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<sup>PLUS</sup> 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° 823-0219-43)**

#### 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 500 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.