

# Sensor Data Sheet

# SENSALERT PLUS

## SENSIDYNE



**Hydrogen Sulfide**  
**(0 - 100 ppm)**  
**Part No. 823-0206-21**  
**FM Performance Certified <sup>1</sup>**

Minimum Indicated Concentration .....	3 ppm
Repeatability .....	± 2% of Reading
Accuracy <sup>2</sup> .....	± 10% of Reading
Span Drift .....	< 10% 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 .....	-40° to 50°C (-40° 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 .....	2 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.

**Cross-Interferences\***

Gas	Gas Exposure	Sensor Output
Ammonia	100 ppm	None
Carbon Monoxide	50 ppm	+1 ppm
Chlorine	10 ppm	-1 ppm
Ethylene	100 ppm	None
Hydrogen	700 ppm	+1 ppm
Hydrogen Chloride	5 ppm	None
Hydrogen Cyanide	10 ppm	None
Nitric Oxide	35 ppm	None
Nitrogen Dioxide	5 ppm	-1 ppm
Sulfur Dioxide	5 ppm	+1 ppm

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

## Special Calibration Considerations:

### **Hydrogen Sulfide Sensor (PN° 823-0206-21)**

#### Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in Section 3.1 of the SensAlert Plus 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 Section 3.2 of the SensAlert Plus User Manual.

#### Test-on-Demand Cell

Test-On-Demand cell available for this sensor: PN° 821-0204-06 (Type S)