Sensor Data Sheet

SENSALERT® PLUS

SENSIDYNE®

Sulfur Dioxide – Filtered for H_2S
(0 – 10.0 ppm)
Part No. 823-0218-22
FM Performance Certified [1]

Minimum Indicated Concentration	0.3 ppm
Repeatability	± 2% of Reading
Accuracy[2]	± 10% of Reading
Span Drift	< 10% change per year (typical)
Response Time (Rise)[3]	T_{50}: < 10 seconds
	T_{90}: < 15 seconds, successive exposures
Recovery Time (Fall)[3]	T_{10}: < 30 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	3 years from Shipping Date
Recommended Calibration Flow Rate	500 to 1000 cc/min
Oxygen Requirement	1% by volume, minimum
SensAlert 4-Channel Controller	Non-Compatible

[1] For use in an FM Approved SensAlert Plus Transmitter.

[2] When unit is calibrated and serviced at recommended intervals.

[3] Room Temperature.

Cross-Interferences*

Gas	Gas Exposure	Sensor Output
Carbon Monoxide	60 ppm	+1 ppm
Chlorine	2 ppm	-1 ppm
Ethylene	100 ppm	None
Hydrogen	100 ppm	None
Hydrogen Chloride	5 ppm	None
Hydrogen Cyanide	2 ppm	+1 ppm
Hydrogen Sulfide	15 ppm	None
Nitric Oxide	35 ppm	None
Nitrogen Dioxide	1 ppm	-1 ppm

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

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Special Calibration Considerations:
Sulfur Dioxide – Filtered Sensor (PN° 823-0218-22)

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 5 ppm. Where possible, a 2 to 5 minute pre-exposure is recommended prior to calibration. This pre-exposure helps to "season-in" the calibration equipment so that gas reaches the sensor at full concentration. The use of Teflon™ tubing is recommended with this gas to prevent gas absorption into the tubing walls. 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.