## Sensor Data Sheet

# SENSALERT PLUS





## Hydrogen Sulfide (0 – 10.0 ppm) Part No. 823-0206-23 FM Performance Certified <sup>1</sup>



<sup>&</sup>lt;sup>1</sup> For use in an FM Approved SensAlert Plus Transmitter.

#### **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

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

<sup>&</sup>lt;sup>2</sup> When unit is calibrated and serviced at recommended intervals.

<sup>&</sup>lt;sup>3</sup> Room Temperature.

## **Special Calibration Considerations:**

## Hydrogen Sulfide Sensor (PN° 823-0206-23)

### Zeroing The Sensor

The sensor should be zeroed in clean ambient air or bottled Zero Air. If bottled air is used, the sensor should undergo a 3 to 5 minute pre-zeroing exposure to pass through minor moisture transients observed in 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 H<sub>2</sub>S. Teflon tubing is recommended for gas delivery. It is recommended that the sensor undergo a 3 to 5 minute pre-calibration exposure in order to season the gas delivery system and provide for a full calibration concentration. 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

This sensor uses a Type S ToD Cell, p/n 821-0204-06.

#### Moisture Considerations

This sensor exhibits a minor moisture transient on sudden changes in moisture (typically less than the zero suppression). The sensor will undergo a negative transient when going from ambient (moist) air to completely dry air and a positive transient going from dry air to moist air. This sensor is compatible with the SensAlert<sup>Plus</sup> moisture barrier provided the sensor is calibrated with the barrier in place.