Hydrogen Sulfide
(0 – 10.0 ppm)
Part No. 823-0206-23
FM Performance Certified

Minimum Indicated Concentration .............. 0.3 ppm
Repeatability ........................................... ± 2% of Reading
Accuracy2 ................................................... ± 10% of Reading
Span Drift .................................................. < 10% change per year (typical)
Response Time (Rise)3 .............................. T50: < 10 seconds
........................................................................ T90: < 30 seconds, successive exposures
Recovery Time (Fall)3 ................................. T10: < 45 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 ................. Not 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*

<table>
<thead>
<tr>
<th>Gas</th>
<th>Gas Exposure</th>
<th>Sensor Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>100 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>50 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>10 ppm</td>
<td>-1 ppm</td>
</tr>
<tr>
<td>Ethylene</td>
<td>100 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>700 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>5 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Hydrogen Cyanide</td>
<td>10 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Nitric Oxide</td>
<td>35 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>5 ppm</td>
<td>-1 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>5 ppm</td>
<td>+1 ppm</td>
</tr>
</tbody>
</table>

* Interference factors may differ from sensor to sensor, it is not advisable to calibrate with interferent gases.
Special Calibration Considerations:
Hydrogen Sulfide Sensor (PN° 823-0206-23)

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 SensAlertPlus 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 H2S. 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 SensAlertPlus 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 SensAlertPlus moisture barrier provided the sensor is calibrated with the barrier in place.