Hydrogen Sulfide
(0 - 100 ppm)
Part No. 823-0206-21
FM Performance Certified ¹

Minimum Indicated Concentration .............. 3 ppm
Repeatability ....................................... ± 2% of Reading
Accuracy² ............................................. ± 10% of Reading
Span Drift ............................................ < 10% change per year (typical)
Response Time (Rise)³ ......................... T₉₀: < 10 seconds
Recovery Time (Fall)³ ......................... T₀₅: < 30 seconds, successive exposures
Tᵣ₉₀: < 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 ........................... 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

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° 823-0206-21)

Zeroing The Sensor
There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in Section 3.1 of the SensAlert$^+$ User Manual or SensAlert ASI 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$^+$ User Manual or SensAlert ASI User Manual.

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