Hydrogen Sulfide
(0 - 50 ppm)
Part No. 823-0206-22
FM Performance Certified

- Minimum Indicated Concentration ............. 2 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
  \(T_{90}: < 30\) seconds, successive exposures
- Recovery Time (Fall)\(^3\) ............................ \(T_{10}: < 60\) 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° 823-0206-22)**

**Zeroing The Sensor**

There are no special zeroing considerations for 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 25 ppm. 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.