Hydrogen
(0 - 1000 ppm)
Part No. 823-0210-21
FM Performance Certified ¹

Minimum Indicated Concentration ............... 30 ppm
Repeatability ........................................... ± 5% of Reading
Accuracy² .................................................. ± 10% of Reading
Span Drift .............................................. < 10% change per year (typical)
Response Time (Rise)³ .............................. T₅₀: < 20 seconds
Recovery Time (Fall)³ ................................. T₁₀: < 120 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 ............... 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>Carbon Monoxide</td>
<td>5 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>1 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene</td>
<td>1.3 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>3 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Nitric Oxide</td>
<td>4 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>5 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>5 ppm</td>
<td>None</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 Sensor (PN° 823-0210-21)

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

Span Calibration
It is recommended that this sensor be calibrated at the half-scale concentration of 500 ppm. There are no special calibration considerations for this sensor. Complete span calibration instructions are provided in Section 3.2 of 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.