Chlorine
(0 - 10.0 ppm)
Part No. 823-0202-21
*FM Performance Certified*

Minimum Indicated Concentration ......... 0.3 ppm
Repeatability ............................................. ± 2% of Reading
Accuracy2 .............................................. ± 10% of Reading
Span Drift ............................................... < 10% change per 6 months (typical)
Response Time (Rise)3 ....................... \( T_{50}: < 10 \text{ seconds} \)
.......................................................... \( T_{90}: < 40 \text{ seconds, successive exposures} \)
Recovery Time (Fall)3 ....................... \( T_{10}: < 60 \text{ seconds} \)
Temperature Range ............................... \(-20^\circ \text{ to } 50^\circ \text{C }\) \((-4^\circ \text{ to } 122^\circ \text{F})\)
Humidity Range (continuous)4 ............... 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

*Interference factors may differ from sensor to sensor, it is not advisable to calibrate with interferent gases.*

**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>100 ppm</td>
<td>none</td>
</tr>
<tr>
<td>Bromine</td>
<td>1 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Chlorine Dioxide</td>
<td>2 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>100 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>20 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Nitric Oxide</td>
<td>500 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>5 ppm</td>
<td>+1 ppm</td>
</tr>
</tbody>
</table>

1 For use in an FM Approved SensAlert Plus Transmitter.
2 When unit is calibrated and serviced at recommended intervals.
3 Room Temperature.
4 High humidity can result in Chlorine gas absorption and adsorption.

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Chlorine
(0 - 10.0 ppm)
Part No. 823-0202-21
*FM Performance Certified*
Special Calibration Considerations:
Chlorine Sensor (PN° 823-0202-21)

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 5 ppm. Where possible, a 2 to 5 minute pre-exposure is recommended prior to calibration. This pre-exposure helps to “season-in” the calibration equipment so that gas reaches the sensor at full concentration. Complete span calibration instructions are provided in the SensAlertPlus User Manual or SensAlert ASI User Manual.

Test-on-Demand Cell
Test-On-Demand cell available for this sensor: 821-0204-02 (Type C).