Chlorine
(0 – 5.00 ppm)
Part No. 823-0202-22

FM Performance Certified

Minimum Indicated Concentration .......... 0.15 ppm
Repeatability .................................. ± 2% of Reading
Accuracy2 ........................................ ± 10% of Reading
Span Drift ....................................... < 10% change per 6 months (typical)
Response Time (Rise)3 .......................... T50: < 10 seconds
Recovery Time (Fall)3 ........................... T10: < 60 seconds
Temperature Range ............................. -20° to 50°C (-4° to 122°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

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.

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</td>
<td>10,000 ppm</td>
<td>None</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>100 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Cyanide</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>

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

**Chlorine Sensor (PN° 823-0202-22)**

**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 2.5 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).