Phosgene  
(0 – 1.00 ppm)  
Part No. 823-0247-21

Minimum Indicated Concentration ............. 0.03 ppm  
Repeatability ........................................... ± 5% of Reading  
Accuracy1 ................................................. ± 10% of Reading (0 to 0.75ppm)  
............................................................ ± 15% of Reading (0.75 to 1.00ppm)  
Span Drift .................................................. < 5% change per 6 months (typical)  
Response Time (Rise)2 .................................... T_{50}: < 60 seconds  
............................................................ T_{90}: < 120 seconds, successive exposures  
Recovery Time (Fall)2 ...................................... T_{10}: < 120 seconds  
Temperature Range ..................................... -20° to 50°C (-4° to 122°F)  
Humidity Range (continuous)3 ....................... 15–90 %RH, non-condensing  
Humidity Range (intermittent) ......................... 0–99 %RH, non-condensing  
Pressure Range .......................................... Ambient atmospheric, ± 1 psi  
Expected Sensor Life ................................. 2 years from Shipping Date  
Recommended Calibration Flow Rate .......... 500 to 1000 cc/min  
Oxygen Requirement ................................. 1% by volume, minimum  
SensAlert 4-Channel Controller .................... Not Compatible

1 When unit is calibrated and serviced at recommended intervals.  
2 Room Temperature.  
3 High humidity can result in 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>Ammonia</td>
<td>100 ppm</td>
<td>none</td>
</tr>
<tr>
<td>Arsine</td>
<td>1 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>100 ppm</td>
<td>none</td>
</tr>
<tr>
<td>Chlorine</td>
<td>2.5 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>0.4 ppm</td>
<td>+1 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>20 ppm</td>
<td>Yes, n/d**</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>1100 ppm</td>
<td>none</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>10 ppm</td>
<td>-1 ppm</td>
</tr>
<tr>
<td>Phosphine</td>
<td>6 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  
** Interference after filter break-through, no data available.
Special Calibration Considerations:  
Phosgene Sensor (PN° 823-0247-21)

Zeroing The Sensor
Due to possible moisture transients, a 5 minute exposure time is recommended if dry or zero air is used to zero 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 0.5 ppm. Where possible, a 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).