

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE®



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

Minimum Indicated Concentration	0.03 ppm
Repeatability	± 5% of Reading
Accuracy ¹	± 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*

Gas	Gas Exposure	Sensor Output
Ammonia	100 ppm	none
Arsine	1 ppm	+1 ppm
Carbon Monoxide	100 ppm	none
Chlorine	2.5 ppm	+1 ppm
Hydrogen Chloride	0.4 ppm	+1 ppm
Hydrogen Sulfide	20 ppm	Yes, n/d**
Isopropanol	1100 ppm	none
Nitrogen Dioxide	10 ppm	-1 ppm
Phosphine	6 ppm	+1 ppm

*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 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 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 SensAlert^{Plus} User Manual or SensAlert ASI User Manual.

Test-on-Demand Cell

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