

Sensor Data Sheet

SENSALERT PLUS

SENSIDYNE®



Chlorine
(0 – 20.0 ppm)
Part No. 823-0202-23

Minimum Indicated Concentration	0.6 ppm
Repeatability	± 2% of Reading
Accuracy ²	± 10% of Reading
Span Drift	< 10% change per 6 months (typical)
Response Time (Rise) ³	T ₅₀ : < 10 seconds
	T ₉₀ : < 30 seconds, successive exposures
Recovery Time (Fall) ³	T ₁₀ : < 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.....	Not 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*

Gas	Gas Exposure	Sensor Output
Carbon Monoxide	100 ppm	none
Bromine	1 ppm	+1 ppm
Chlorine Dioxide	2 ppm	+1 ppm
Hydrogen	10,000 ppm	None
Hydrogen Chloride	100 ppm	+1 ppm
Hydrogen Cyanide	100 ppm	-1 ppm
Hydrogen Sulfide	20 ppm	None
Nitric Oxide	500 ppm	+1 ppm
Nitrogen Dioxide	5 ppm	+1 ppm

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

Special Calibration Considerations:

Chlorine Sensor (PN° 823-0202-23)

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 10 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 Section 3.2 of 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).