

Sensor Data Sheet

SENSALERT PLUS



Chlorine
(0 - 10.0 ppm)
Part No. 823-0202-21
FM Performance Certified ¹

- 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 T₅₀: < 10 seconds
T₉₀: < 40 seconds, successive exposures
- 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 2 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*

Gas	Gas Exposure	Sensor Output
Carbon Monoxide	100 ppm	none
Bromine	1 ppm	+1 ppm
Chlorine Dioxide	2 ppm	+1 ppm
Hydrogen Chloride	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 (P/N 823-0202-21)

Zeroing The Sensor

There are no special zeroing considerations for this sensor. Complete zeroing instructions are provided in the SensAlert Plus 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 SensAlert Plus User Manual.

Test-on-Demand Cell

Test-On-Demand cell available for this sensor: P/N 821-0204-02