

APPENDIX A

SENSOR SPECIFICATIONS

HYDROGEN CHLORIDE

(Refillable)

(0-10.0 ppm)

Part No. 081201-D-1X

Minimum Indicated Concentration	0.4 ppm
Repeatability	± 10% of reading
Accuracy *	± 10% of full scale
Zero Drift	< 5% change per year (typical)
Span Drift	< 3% change per month (typical)
Response Time (Rise)	T ₅₀ : < 40 seconds, successive exposures T ₉₀ : < 180 seconds, successive exposures
Recovery Time (Fall)	T ₁₀ : < 180 seconds
Temperature Range (continuous)	-5° to 40°C (23°F to 104°F)
Humidity Range (continuous)	5–95 %RH, non-condensing
Humidity Range (intermittent†)	0–99 %RH, non-condensing
Pressure Range	Ambient atmospheric, ± 1 psi
Recommended Calibration Flow Rate	1.0 LPM
Oxygen Requirement	None
Position Requirement	± 30° from vertical

† Gas exposure should not exceed eight (8) hours during any 24 hour period.

* When unit is calibrated and serviced at recommended intervals.

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Interferent	TLV	LEL	Exposure	Response
Carbon Monoxide	25 ppm	12.5 %v	91 ppm	+ 1 ppm
Chlorine	0.5 ppm	***	5 ppm	+ 1 ppm
Hydrocarbons	asphyxiant		% Range	None
Hydrogen	asphyxiant	4.0 %v	1 %vol	None
Hydrogen Cyanide	C 4.7 ppm	5.6 %v	15 ppm	+ 1 ppm
Hydrogen Sulfide	10 ppm	4.0 %v	3.6 ppm	+ 1 ppm
Hydrogen Bromide		***	1 ppm	+ 1 ppm
Hydrogen Fluoride	C 3 ppm	***	3 ppm	None
Sulfur Dioxide	2 ppm	***	5 ppm	no data

Interferent Notes

(***) means the substance is not combustible in air under normal conditions. "C" Denotes a ceiling (in TLV column).

If an interferent is present and there is no target gas, certain transmitters will not display the interferent response until the EFFECT of the interferent reaches ± 0.04 ppm. This is due to display "blanking" that occurs between - 0.03 ppm and + 0.03 ppm on transmitters that display gas concentrations with two digits after the decimal.