

APPENDIX A

SENSOR SPECIFICATIONS

CHLORINE

(Refillable)

(0-10.0 ppm)

Part No. 021201-D-1

Minimum Indicated Concentration	0.4 ppm
Repeatability	± 10% of reading
Accuracy *	± 10% of reading
Zero Drift	< 5% change per year (typical)
Span Drift	< 10% change per month (typical)
Response Time (Rise)	T ₅₀ : < 30 seconds, successive exposures T ₉₀ : < 60 seconds, successive exposures
Recovery Time (Fall)	T ₁₀ : < 180 seconds
Temperature Range (continuous)	-5° to 45°C (23°F to 113°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.

CHLORINE

Interferent	TLV	LEL	Exposure	Response
Bromine	0.1 ppm	***	2.5 ppm	+ 1 ppm
Carbon Monoxide	25 ppm	12.5 %v	200 ppm	None
Chlorine Dioxide	0.1 ppm	***	10 ppm	+ 1 ppm
Fluorine	0.1 ppm	***	0.8 ppm	+ 1 ppm
Hydrocarbons			%vol range	None
Hydrogen	asphyxiant	4.0 %v	4.5 ppm	- 1 ppm
Hydrogen Chloride	C 5 ppm	***	1000 ppm	+ 1 ppm
Hydrogen Cyanide	C 4.7 ppm	5.6 %v	10 ppm	None
Hydrogen Sulfide	10 ppm	4.0 %v	200 ppm	None
Nitrogen Dioxide	3 ppm	***	670 ppm	+ 1 ppm
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.