

APPENDIX A

SENSOR SPECIFICATIONS

FLUORINE

(0-25.0 ppm)

Part No. 151142-D-2

Minimum Indicated Concentration	0.4 ppm
Repeatability	± 2% of reading
Accuracy *	± 2% of full scale
Zero Drift	< 5% change per year (typical)
Span Drift	< 10% change per year (typical)
Response Time (Rise)	T ₅₀ : < 10 seconds, (typical) T ₉₀ : < 30 seconds, successive exposures
Recovery Time (Fall)	T ₁₀ : < 60 seconds
Temperature Range	-20° to 50°C (-4° to 122°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	1% by volume, minimum

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

* When unit is calibrated and serviced at recommended intervals.

FLUORINE

Interferent	TLV	LEL	Exposure	Response
Bromine	0.1 ppm	***	2.3 ppm	+ 1 ppm
Carbon Monoxide	25 ppm	12.5 %v	100 ppm	None
Chlorine	0.5 ppm	***	2.3 ppm	+ 1 ppm
Chlorine Dioxide	0.1 ppm	***	12 ppm	+ 1 ppm
Hydrocarbons	asphyxiant	3.1 %v	%-range	None
Hydrogen	asphyxiant	4.0 %v	1000 ppm	None
Hydrogen Chloride	C 5 ppm	***	136 ppm	+ 1 ppm
Hydrogen Cyanide	C 4.7 ppm	5.6 %v	10 ppm	None
Hydrogen Sulfide	10 ppm	4.0 %v	33 ppm	- 1 ppm *
Nitric Oxide	25 ppm	***	100 ppm	None
Nitrogen Dioxide	3 ppm	***	19 ppm	+ 1 ppm
Sulfur Dioxide	2 ppm	***	5 ppm	+ 1 ppm

Interferent Notes

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

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.