

APPENDIX A

SENSOR SPECIFICATIONS

ARSINE

(0-1.00 ppm)

Part No. 121042-D-1

Minimum Indicated Concentration	0.04 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.

ARSINE

Interferent	TLV	LEL	Exposure	Response
Acetylene	asphyxiant	2.5 %v	ppm-range	No Data-Pos(+) Interferent
Carbon Monoxide	25 ppm	12.5 %v	300 ppm	None
Diborane	0.1 ppm	0.8 %v	1.3 ppm	+ 1 ppm
Germane	0.2 ppm	***	0.5 ppm	+ 1 ppm
Hydrocarbons			%vol range	None
Hydrogen	asphyxiant	4.0 %v	3000 ppm	+ 1 ppm
Phosphine	0.3 ppm	***	0.8 ppm	+ 1 ppm
Silane	5 ppm	***	1.8 ppm	+ 1 ppm
Sulfur Dioxide	2 ppm	***	4 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.