

HYDROGEN FLUORIDE

(0-10.0 ppm)

Part No. 071142-D-1

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 month (typical)
Response Time (Rise)	T ₅₀ : < 40 seconds T ₉₀ : < 90 seconds
Recovery Time (Fall)	T ₁₀ : < 70 seconds
Temperature Range (continuous)	-20° to 50°C (-4°F to 122°F)
Humidity Range (continuous)	5–95 %RH, non-condensing <i>(Note: High humidity causes HF absorption)</i>
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.

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Interferent	TLV	LEL	Exposure	Response
Arsine	0.05 ppm	***	0.1 ppm	None
Boron Trifluoride	C 1 ppm	***	2.7 ppm	+ 1 ppm * #
Carbon Monoxide	25 ppm	12.5 %v	1000 ppm	None
Carbon Dioxide	5000 ppm	***	5000 ppm	None
Chlorine	0.5 ppm	***	2.5 ppm	+ 1 ppm
Chlorine Trifluoride	C 0.1 ppm	***	1 ppm	no data
Diborane	0.1 ppm	0.8 %v	0.1 ppm	None
Fluorine	1 ppm	***	3 ppm	no data
Germane	0.2 ppm	***	1 ppm	None
Hydrogen	asphyxiant	4.0 %v	1 %vol	None
Hydrochloric Acid	C 5 ppm		1.53 ppm	+ 1 ppm
Hydrogen Sulfide	10 ppm	4.0 %v	10 ppm	None
Nitrogen Dioxide	3 ppm	***	100 ppm	+ 1 ppm
Silicon Fluoride	2.5 mg/m ³	***	0.75 ppm	+ 1 ppm
Sulfur Dioxide	2 ppm	***	1.8 ppm	no data

Interferent Notes

(*) Long term exposure may damage sensor.

(***) 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 ± 4 ppm. This is due to display "blanking" that occurs between -3 ppm and + 3 ppm on transmitters that display gas concentrations as whole numbers (no decimals).