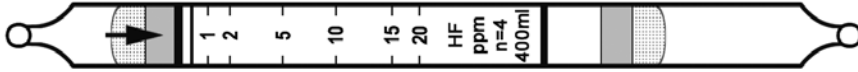


Hydrogen Fluoride HF No. H-10-105-10



	Extended Range	Standard Range	Extended Range
Range (ppmv)	0.25 - 10	0.5 - 20	1 - 40
No. of Pump Strokes	8	4	2
Sample Volume (mL)	800	400	200
Sample Time (min)	8 x 0.5	4 x 0.5	2 x 0.5
Correction Factor	0.4	1	1.6

Precision (Relative Standard Deviation)*: $\leq \pm 20\%$

Linearity with No. of Pump Strokes: $r^2 = 0.98$

Humidity: Calibrated at 50% RH and 23°C (73°F).

% Relative Humidity	30%	40%	50%	60%	70%	80%	90%
Correction Factor	0.3	0.4	1.0	1.3	1.6	2.0	2.6

Temperature Range: No effect 10 - 30°C (50 - 86°F) at constant 41% RH.

Storage Life: 2 years in darkness at 5 - 25°C (40 - 77°F). Refrigeration Preferred.

Color Change: Beige → Purple

Reaction Principle: $\text{HF} + \text{NaOH} \rightarrow \text{NaF} + \text{H}_2\text{O}$

DATA SHEETS

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
CO	250	0
CO ₂	50000	0
NH ₃	300	0 [^]
NO	100	0
H ₂ S	800	0
SO ₂	200	0
CH ₄	25000	0
HCl	4	entire tube [#]
Cl ₂	15	entire tube [#]

* Data based on Honeywell pumps and tubes used in standard range.

[#] Pink color over entire tube length.

[^] May interfere in mixtures.

Other Possible Interferences: Other acid vapors; amines and other bases. No effect of 100 ppm toluene or 2400 ppm hexane.