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Gas Detection Tube Data Sheet

Hydrogen Chloride HCl No. 10-108-22

	Extended Range	Standard Range	Extended Range
Range (ppmv)	10-250	20-500	40-1000
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 1.5	1.5	1.0
Correction Factor	0.5	1	2.0

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

Linearity with No. of Pump Strokes: $r^2 > 0.995$

Humidity: No effect at RH (5-95%)

Temperature Range: No effect at 0 - 40°C (32 - 104°F); at -20°C, the response is reduced by about 5%.

Storage Life: 2 years in darkness at 5 °C(40°F). Refrigeration preferred.

Color Change: Yellow → Red

Reaction Principle: HCl + Base → Chloride (dye color change)

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
CH ₄	25000	0
CO	500	0
CO ₂	1000	0
H ₂ S	100	0
SO ₂	1000	0
NO	200	0
NO ₂	100	0
NH ₃	100	0
HF	100	0
Cl ₂	200	0
Hexane	2000	0
Toluene	2000	0

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

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.