

# Hydrogen Chloride HCl No. H-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 5-95% RH.

Temperature Range: No effect 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 required.

Color Change: Yellow → Red

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

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

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

DATA SHEETS