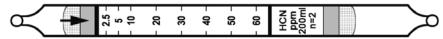
Hydrogen Cyanide HCN No. H-10-126-10



	Extended Range	Standard Range	Extended Range
Range (ppmv)	1.25 - 30	2.5 - 60	5 - 120
No. of Pump Strokes	4	2	1
Sample Volume (mL)	400	200	100
Sample Time (min)	4 x 2.5	2 x 2.5	2.5
Correction Factor	0.4	1	2

<u>Precision (Relative Standard Deviation)*:</u> ≤±20% <u>Linearity with No. of Pump Strokes</u>: r² >0.999

Humidity: 5% - 95%RH

 % Relative Humidity
 < 5%</th>
 10%
 50%
 95%

 Correction Factor @ 10 ppmv
 1.0
 1.0
 1.2
 1.4

Temperature Range: No effect 0 - 40°C (32 - 104°F)

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

<u>Color Change</u>: Yellow \rightarrow Red (ignore light orange color formed in clean air)

Reaction Principle: 2HCN + HgCl₂ → Hg(CN)₂ + 2HCl

HCl + Base → Chloride Salt + H₂O (dye color change)

Cross-sensitivity:	Concentration (ppmv)	Apparent Reading*
Substance		rteauring
H ₂	2000	0
CH₄	25000	0
CO	300	0
H ₂ S	100	<1#
HCI	100	<1#
SO ₂	20	20#
NH ₃	50	0
CO ₂	5000	0

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

Note: A light orange color may form when drawing in air with no HCN present. This color can be ignored and does not affect true HCN readings, which form a bright pinkish-red color. The color boundary is sharp in ambient, humid air and somewhat diffuse in very dry air.

[#] Measured in dry gas; at >20% RH, no response is observed by these gases.