

Performance

1 offormation					
Measuring Range	17 to 50 ppm	50 to 800 ppm	800 to 2400 ppm		
Number of Pump Strokes	2	1	1/2		
Correction Factor	1/3	1	3		
Sampling Time	1 minute per pump stroke				
Detecting Limit	1 ppm (n=2)				
Colour Change	Yellow → Red				
Reaction Principle	Hydrogen cyanide reacts with mercuric Chloride to form the hydrogen chloride then discolours the indicator to red. 2HCN + HgCl₂ → Hg(CN)₂+ 2HCl HCl + Base → Chloride product				
Coefficient of Variation	10% (for 50 to 200 ppm), 5% (for 200 to 800 ppm)				
Shelf Life	3 Years				
Corrections for temperature & humidity	Unnecessary				
Store the tubes at cool and dark place.					

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Hydrogen sulphide	<u>≥</u> 500 ppm	Plus error	Red discoloration
Sulphur dioxide	<u>≥</u> 500 ppm	Plus error	Red discoloration

Calibration gas generation Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
-	C 4.7 ppm	5.6 to 40%