

**Specification :**

Measurement Range	Extended	Standard	Extended
	0.2 – 1 ppm	1 – 20 ppm	20 – 40 ppm
No. of Pump Strokes	5 (500 ml)	1 (100 ml)	½ (50 ml)
Volume Correction Factor (VCF)*	1/5	1.0	2.0
Sampling Time	1 minutes per pump stroke (100 ml)		
Color Change	Blue → Yellow		
Detection Limit	0.1 ppm (5 pump strokes)		
Shelf Life	1 year		
Relative standard deviation	± 10 – 15 %		

* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

Reaction Principle :

HCl + Base → Reaction product

Possible Interferences :

Compound	Concentration (ppm)	Interference	Color Change / Comments
Chlorine	≥1	+	Yellow
Nitric acid	≥30	+	Yellow
Sulphur dioxide	≥50	+	Yellow
Nitrogen dioxide	≥5	+	Yellow
Hydrogen fluoride	≥150	+	Yellow
Ammonia	≥ 0.4 %	-	Lower readings
Hydrogen sulphide	≤ 1.5 %	No Effect	No Effect
Carbon dioxide	≤ 20 %	No Effect	No Effect

Correction For Environmental Parameters :

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.

Calibration Of The Tube :

Static gas dilution method.