

**Specification :**

Measurement Range	Extended	Standard	Extended
	50 – 100 ppm	100 – 4000 ppm	4000 – 8000 ppm
No. of Pump Strokes	2(200 ml)	1(100 ml)	½ (50 ml)
Volume Correction Factor (VCF)*	0.5	1.0	2
Sampling Time	2.5 minutes per pump stroke (100 ml)		
Color Change	White → Orange		
Detection Limit	20 ppm (2 pump strokes)		
Shelf Life	3 years		
Relative standard deviation	± 10 – 15 %		

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

**Reaction Principle :**

ClO<sub>2</sub> + o-Tolidine → Orange reaction product.

**Possible Interferences :**

Compound	Concentration (ppm)	Interference	Color Change / Comments
Chlorine	200	+	Orange
Nitrogen Dioxide	100	+	Orange
Bromine	70	+	Orange
Iodine	≤421	No	No Effect

**Correction For Environmental Parameters :**

Temperature (°C):	10	20	30	40
Temperature Correction Factor (TCF) *:	1.22	1	0.86	0.83

Relative humidity

Not necessary between 10 - 90 %.

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

**Calibration Of The Tube :**

Static gas dilution method.