



1. PERFORMANCE

- 1) Measuring range : 0.3-8 ppm
Number of pump strokes : 3 (300mℓ)
- 2) Sampling time : 4.5 minute s/3 pump strokes
- 3) Detectable limit : 0.15 ppm (300mℓ)
- 4) Shelf life : 1 year (Necessary to store in refrigerated conditions ; 0 ~ 10 ℃)
- 5) Operating temperature : 0 ~ 40 ℃
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 3 pump strokes
- 8) Colour change : Yellow → Red

2. RELATIVE STANDARD DEVIATION

RSD-low : 5% RSD-mid. : 5% RSD-high : 5%

3. CHEMICAL REACTION

Hydrogen cyanide reacts with Mercuric chloride and liberates hydrogen chloride, then PH indicator is discoloured.
 $\text{HCN} + \text{HgCl}_2 \rightarrow \text{HCl}$

4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Sulphur dioxide	Red stain is produced.	1.0	Higher readings are given.
Hydrogen sulphide	∕		∕
Acrylonitrile	∕		∕
Phosphine	∕		∕
Ammonia		2.0	Lower readings are given.

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	corrected Concentration (ppm)				
	0 ℃ (32 ℉)	10 ℃ (50 ℉)	20 ℃ (68 ℉)	30 ℃ (86 ℉)	40 ℃ (104 ℉)
8	10.0	9.8	9.0	7.5	7.0
7	8.3	7.6	7.0	6.6	6.2
6	6.9	6.4	6.0	5.6	5.4
5	5.8	5.2	5.0	4.8	4.5
4	4.5	4.2	4.0	3.8	3.7
3	3.4	3.2	3.0	2.9	2.8
2	2.2	2.1	2.0	1.9	1.8
1	1.1	1.1	1.0	0.9	0.9
0.6	0.7	0.7	0.6	0.5	0.5
0.3	0.3	0.3	0.3	0.3	0.3