

## 1. PERFORMANCE

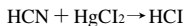
- |                             |   |            |            |           |
|-----------------------------|---|------------|------------|-----------|
| 1) Measuring range          | : 1-20 ppm  | 0.5-10 ppm | 0.25-5 ppm | 0.2-4 ppm |
| Number of pump strokes      | : 1 (100mℓ)   | 2 (200mℓ)  | 4 (400mℓ)  | 5 (500mℓ) |
| 2) Sampling time            | : 1.5 minutes/1 pump stroke                                     |            |            |           |
| 3) Detectable limit         | : 0.05ppm (500mℓ)   |            |            |           |
| 4) Shelf life               | : 1 year (Necessary to store in refrigerated place ; 0 ~ 10 °C) |            |            |           |
| 5) Operating temperature    | : 0 ~ 40 °C   |            |            |           |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE")                |            |            |           |
| 7) Reading                  | : Direct reading from the scale calibrated by 1 pump stroke     |            |            |           |
| 8) Colour change            | : Yellow → Red  |            |            |           |

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10%    RSD-mid. : 5%    RSD-high : 5%

## 3. CHEMICAL REACTION

By decomposing with an Oxidizer, Hydrogen cyanide is produced, Hydrogen cyanide reacts with Mercuric chloride, then Hydrogen chloride is liberated and PH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm		Coexistence
		Less than		
Butadiene		350 ppm		Not affected.
Toluene		600 ppm		∕
Hexane		800 ppm		∕
Styrene		720 ppm		∕

(NOTE)

In case of 2 to 5 pump strokes can be used to determine the lower concentration.

Following formula is available for actual concentration.

$$\text{Actual concentration} = \text{Temperature corrected value} \times \frac{1}{\text{Number of strokes}}$$

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
20	26	22.5	20	18	17
18	23	20	18	16.5	15.5
16	20.5	18	16	15	14
14	18	15.5	14	13	12
12	15.5	13.5	12	11	10.5
10	13	11	10	9.5	9
8	10.5	9	8	7.5	7
6	8	7	6	6	5.5
4	5.5	4.5	4	4	4
2	3	2	2	2	2
1	1.5	1	1	1	1