



## 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.



## 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                          | 8.8         | 8.0         | 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          |

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