



## 1. PERFORMANCE

- |                             |  |            |             |
|-----------------------------|--|------------|-------------|
| 1) Measuring range          | : 1-75 ppm   | 0.2-15 ppm | 0.1-7.5 ppm |
| Number of pump strokes      | 1 (100mℓ)  | 5 (500mℓ)  | 10 (1000mℓ) |
| 2) Sampling time            | : 10 minutes/5 pump strokes                                  |            |             |
| 3) Detectable limit         | : 0.02 ppm (1000mℓ)  |            |             |
| 4) Shelf life               | : 2 years  |            |             |
| 5) Operating temperature    | : 0 ~ 40 °C  |            |             |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE")             |            |             |
| 7) Reading                  | : Direct reading from the scale calibrated by 5 pump strokes |            |             |
| 8) Colour change            | : White → Greenish brown                                     |            |             |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Iodine pentoxide is reduced.



## 4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Toluene			Higher readings are given.
Xylene			∕
Carbon monoxide		2.0	Whole reagent is changed to Pale brown, unclear stain is produced and higher readings are given.
Hexane		2.0	∕

(NOTE)

In case of 1 or 10 pump strokes, following formula is available for the actual concentration.

$$\text{Actual concentration} = \text{Temperature corrected value} \times \frac{5}{\text{Number of pump strokes}}$$

### CORRECTION FOR AMBIENT CONDITIONS:

Temperature; In order to correct for temperature, multiply the tube reading with the following factors.

Temperature (°C)	0	1	2	3	4	5	6	7	8	9
Correction Factor	0.69	0.71	0.72	0.73	0.75	0.76	0.78	0.79	0.81	0.82
Temperature (°C)	10	11	12	13	14	15	16	17	18	19
Correction Factor	0.84	0.85	0.87	0.88	0.90	0.92	0.93	0.95	0.97	0.98
Temperature (°C)	20	21	22	23	24	25	26	27	28	29
Correction Factor	1.00	1.02	1.04	1.05	1.07	1.09	1.11	1.13	1.14	1.16
Temperature (°C)	30	31	32	33	34	35	36	37	38	39
Correction Factor	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.36
Temperature (°C)	40									
Correction Factor	1.39									