

## 1. PERFORMANCE

- |                             |   |             |
|-----------------------------|---|-------------|
| 1) Measuring range          | : 1-10 ppm  | 0.2-2.0 ppm |
| Number of pump strokes      | : 1 (100ml)   | 4 (400ml)   |
| 2) Sampling time            | : 1.5 minutes/1 pump stroke                                       |             |
| 3) Detectable limit         | : 0.1 ppm (400ml)   |             |
| 4) Shelf life               | : 1 year (Necessary to store in a 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            | : Pale orange → Blueish purple                                    |             |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with an Oxidizer, Hydrogen chloride is produced and PH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Trichloroethylene FIG.1	Similar stain is produced.	2	Higher readings are given.
1,2-Dichloroethylene FIG.2	∕	2	∕
Hydrogen chloride	∕	2	∕
Vinyl chloride	∕	40	∕

(NOTE)

In case of 4 pump strokes, following formula is available for the actual concentration.

Actual concentration =  $1/5 \times$  Temperature corrected value

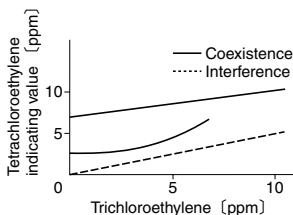


FIG.1 Influence of Trichloroethylene

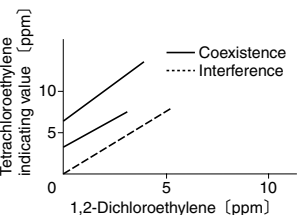


FIG.2 Influence of 1,2-Dichloroethylene

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)
10	12.5	11.3	10.0	9.4	8.7
9	11.9	10.5	9.0	8.5	7.9
8	9.4	8.7	8.0	7.5	7.0
7	8.2	7.6	7.0	6.6	6.2
6	7.0	6.5	6.0	5.6	5.2
5	5.8	5.4	5.0	4.8	4.3
4	4.6	4.3	4.0	3.8	3.5
3	3.5	3.3	3.0	2.8	2.6
2	2.3	2.2	2.0	1.9	1.7
1	1.1	1.1	1.0	1.0	0.9