

1. PERFORMANCE

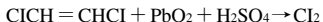
- 1) Measuring range : 5-400 ppm
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 3 ppm
- 4) Shelf life : 1 year (Necessary to store in a refrigerated place ; 0 ~ 10 °C)
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary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

2. RELATIVE STANDARD DEVIATION

RSD-low : 15 % RSD-mid. : 10 % RSD-high : 5 %

3. CHEMICAL REACTION

Chlorine is produced by an Oxidizer. By reacting between this Chlorine and *o*-Toluidine, Orthoquinone is produced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	ppm	Coexistence
Trichloroethylene	FIG.1	Similar stain is produced.	3	Higher readings are given.
Tetrachloroethylene	FIG.2	∕	3	∕
Vinyl chloride		∕	5	∕
Chloride		∕	15	∕

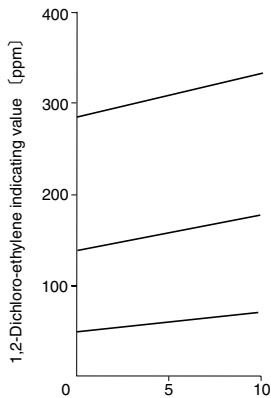


FIG.1 Influence of Trichloroethylene

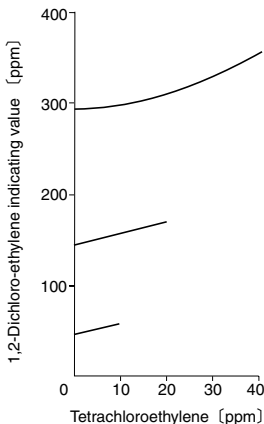


FIG.2 Influence of Tetrachloroethylene

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)
400	570	465	400	330	280
300	420	350	300	235	205
200	290	235	200	160	145
150	220	180	150	130	115
100	145	120	100	90	70
50	65	58	50	45	40
30	40	35	30	26	22
10	10	10	10	10	10