

## 1. PERFORMANCE

- 1) Measuring range : 2.3-36.8 ppm    1-16 ppm    0.2-3.2 ppm  
     Number of pump stroke    1/2 (50mL)    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) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) 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.  
 $\text{Cl}_2\text{C} = \text{CHCl} + \text{PbO}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{HCl}$

## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Tetrachloroethylene FIG.1	Similar stain is produced.	2	Higher readings are given.
1,2-Dichloroethylene FIG.2	"	2	"
Hydrogen chloride	"	2	"
Vinyl chloride	"	20	"

(NOTE )

In case of 4 pump strokes, following formula is available for the actual concentration.  
 Actual concentration =  $1/5 \times$  Reading value.

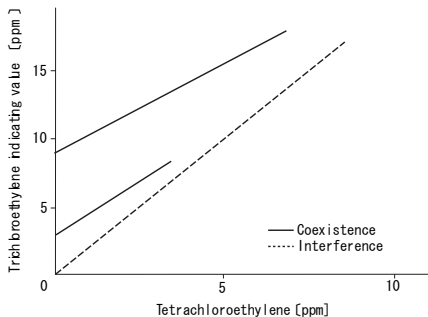


FIG.1 Influence of Tetrachloroethylene

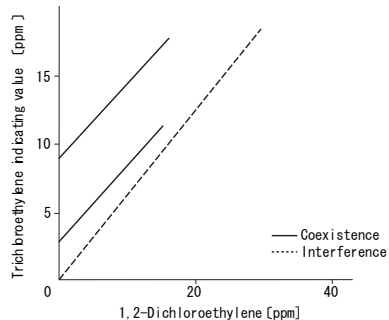


FIG.2 Influence of 1,2-Dichloroethylene