

1. PERFORMANCE

- 1) Measuring range : 1.25-125ppm 0.5-50 ppm
 Number of pump strokes 1/2(50mL) 1(100mL)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 0.2 ppm
- 4) Shelf life : 3 years
- 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 pink → Yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with alkali, PH indicator is discoloured.
 $\text{CH}_3\text{COOH} + \text{Na}_2\text{SiO}_3 \cdot n\text{H}_2\text{O} \rightarrow \text{CH}_3\text{CO}_2\text{Na} + \text{H}_2\text{O}$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Sulphur dioxide		Similar stain is produced.	$1/20 \times$ Acetic acid	Higher readings are given.
Nitrogen dioxide	300	//	10	Unclear stain is produced.
Hydrogen chloride FIG.1		Pink stain is produced.	$2 \times$ Acetic acid	Higher readings are given.
Chlorine FIG.2		Yellow stain is produced.	5	//

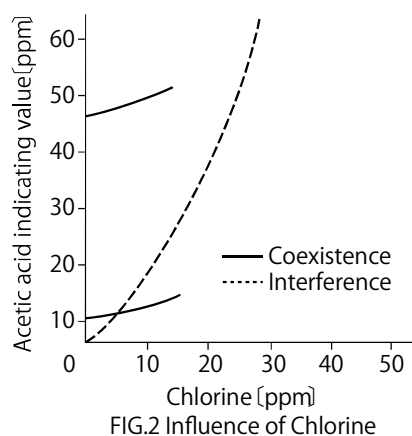
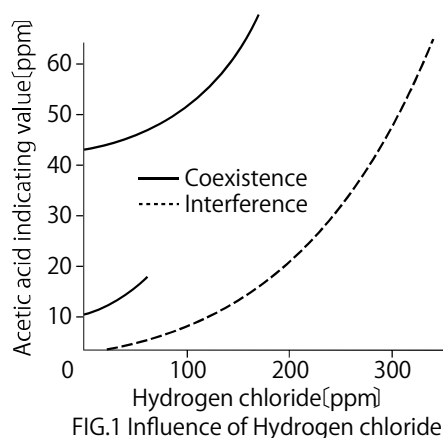


TABLE OF THE COEFFICIENT FOR TEMPERATURE CORRECTION(BASED ON 20°C)

Temperature(°C)	0	5	10	15	20	25	30	35	40
Correction factor	1.24	1.17	1.10	1.05	1.00	0.95	0.90	0.85	0.80