

1. PERFORMANCE

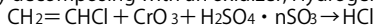
- 1) Measuring range : 0.44-13.2 ppm 0.2-6.0 ppm 0.09-2.7 ppm
- Number of pump strokes : 1 (100mL) 2 (200mL) 4 (400mL)
- 2) Sampling time : 3 minutes / 2 pump strokes
- 3) Detectable limit : 0.05 ppm (400mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary (0~40°C)(See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 2 pump strokes
- 8) Colour change : Greenish yellow → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By decomposing with an oxidizer, Hydrogen chloride is produced and pH indicator is discoloured.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Acetylene	—	The accuracy of readings is not affected.	3%	Lower readings are given.
Ethylene	—	"	200	"
Hydrogen chloride	Less than 500	"	—	The accuracy of readings is not affected.
Chlorine	Less than 50	"	—	"

(NOTE)

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

Actual concentration = Temperature corrected value × 0.45

TEMPERATURE CORRECTION TABLE(100mL)

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
6.0	24.1	17.4	13.2	13.2	13.2
5.0	19.4	13.8	11.0	11.0	11.0
4.0	15.1	10.6	8.8	8.7	8.5
3.0	10.8	7.6	6.6	6.4	6.1
2.0	6.8	4.7	4.4	4.3	4.1
1.0	3.18	2.20	2.2	2.10	2.00
0.8	2.47	1.76	1.76	1.66	1.55
0.6	1.83	1.32	1.32	1.24	1.16
0.4	1.25	0.88	0.88	0.83	0.77
0.2	0.58	0.44	0.44	0.42	0.40

TEMPERATURE CORRECTION TABLE(200mL/400mL)

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
6.0	8.1	6.6	6.0	5.8	5.6
5.0	6.5	5.4	5.0	4.7	4.6
4.0	5.0	4.2	4.0	3.8	3.5
3.0	3.6	3.1	3.0	2.8	2.6
2.0	2.3	2.1	2.0	1.8	1.6
1.0	1.13	1.03	1.0	0.80	0.70
0.8	0.90	0.82	0.80	0.64	0.57
0.6	0.68	0.62	0.60	0.47	0.46
0.4	0.45	0.41	0.40	0.35	0.32
0.2	0.23	0.21	0.20	0.20	0.20