

## 1. PERFORMANCE

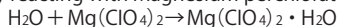
- 1) Measuring range : 0.05-2.0 mg/L
- Number of pump strokes : 1(100mL)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 0.03 mg/L
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary ( See "TEMPERATURE CORRECTION TABLE" )
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow→Blue(over 0.6 mg/L) or Yellowish green(below 0.6 mg/L)

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with Magnesium perchlorate, PH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols FIG.1	Similar stain is produced.	Higher readings are given.
Aliphatic hydrocarbons	The accuracy of readings is not affected.	The accuracy of readings is not affected.
Aromatic hydrocarbons	//	//
Sulphur dioxide	//	//
Hydrogen sulphide	//	//

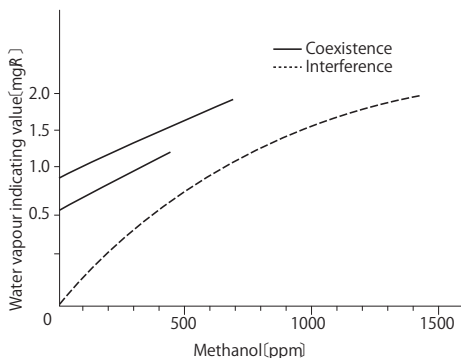


FIG.1 Influence of Methanol

TEMPERATURE CORRECTION TABLE

Tube Readings (mg/l)	Corrected Concentration (mg/l)								
	32 °F	41 °F	50 °F	59 °F	68 °F	77 °F	86 °F	95 °F	104 °F
2.0	3.70	3.06	2.46	2.00	1.60	1.28	0.92	0.66	
1.8	4.40	3.26	2.66	2.20	1.80	1.44	1.10	0.82	0.58
1.6	4.00	2.94	2.40	1.95	1.60	1.30	0.98	0.74	0.52
1.4	3.30	2.52	2.08	1.72	1.40	1.15	0.85	0.64	0.44
1.2	2.70	2.06	1.80	1.48	1.20	0.98	0.72	0.54	0.38
1.0	1.92	1.66	1.50	1.24	1.00	0.82	0.60	0.46	0.30
0.8	1.58	1.38	1.24	1.00	0.80	0.66	0.50	0.36	0.25
0.6	1.10	1.02	0.90	0.74	0.60	0.50	0.37	0.26	0.18
0.4	0.72	0.68	0.60	0.50	0.40	0.34	0.25	0.18	0.12
0.2	0.38	0.36	0.32	0.26	0.20	0.18	0.14	0.08	0.06
0.1	0.18	0.17	0.15	0.13	0.10	0.08	0.06	0.05	0.04
0.05	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.03	0.02