

## 1. PERFORMANCE

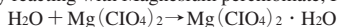
- 1) Measuring range : 0.05-2.0 mg/ℓ
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 0.03 mg/ℓ
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) 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 <span style="float: right;">FIG.1</span>	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	∕	∕

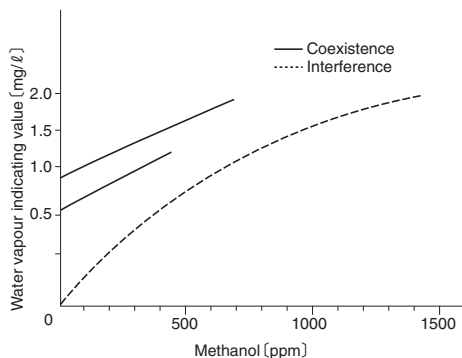


FIG.1 Influence of Methanol

## 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	