

1. PERFORMANCE

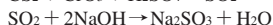
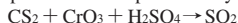
- 1) Measuring range : 0.2-6.4 ppm 0.1-3.0 ppm
- Number of pump strokes 2 (200mℓ) 4 (400mℓ)
- 2) Sampling time : 10 minutes / 4 pump strokes
- 3) Detectable limit : 0.02 ppm (400mℓ)
- 4) Shelf life : 1 year
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 4 pump strokes
- 8) Colour change : Pale purple → Pale yellow

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 5% RSD-high : 5%

3. CHEMICAL REACTION

Sulphur dioxide is produced by an Oxidizer. Sulphur dioxide reacts with alkali and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Sulphur dioxide		2	Higher readings are given.
Hydrogen sulphide		40	∕
Chlorine		0.2	White stain is produced from the inlet side of the tube, and higher readings are given.
Nitrogen dioxide	The accuracy of readings is not affected.		
Carbon tetrachloride	∕		

TEMPERATURE CORRECTION TABLE
(2 pump strokes)

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)
3.0	—	—	6.40	8.75	5.20
2.5	—	6.75	5.40	4.80	4.35
2.0	6.50	5.35	4.30	3.80	3.40
1.5	4.90	3.95	3.20	2.80	2.50
1.0	3.20	2.50	2.05	1.80	1.60
0.7	2.20	1.60	1.35	1.20	1.05
0.5	1.50	1.10	0.92	0.80	0.70
0.3	0.85	0.62	0.53	0.44	0.37
0.1	0.28	0.24	0.20	0.16	0.13

TEMPERATURE CORRECTION TABLE
(4 pump strokes)

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)
3.0	—	3.45	3.00	2.75	2.45
2.5	3.40	2.90	2.50	2.30	2.05
2.0	2.70	2.30	2.00	1.80	1.65
1.5	2.00	1.70	1.50	1.35	1.20
1.0	1.30	1.15	1.00	0.90	0.80
0.7	0.90	0.80	0.70	0.62	0.55
0.5	0.64	0.57	0.50	0.44	0.40
0.3	0.38	0.34	0.30	0.26	0.24
0.1	0.12	0.11	0.10	0.09	0.08