

1. PERFORMANCE

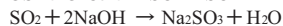
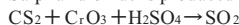
- 1) Measuring range : 0.2-6.4 ppm 0.1-3.0ppm
 Number of pump strokes 2(200mL) 4(400mL)
- 2) Sampling time : 5 minutes/2 pump strokes
- 3) Detectable limit : 0.02 ppm (400mL)
- 4) Shelf life : 1 year
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION 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

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm Interference	Coexistence
Sulphur dioxide	2	Similar stain is produced.
Hydrogen sulphide	40	"
Chlorine	0.2	White stain is produced from the inlet side of the tube.
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