



1. PERFORMANCE

- 1) Measuring range : 0.1-3.0 %
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 100 ppm
- 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

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.
 $\text{SO}_2 + \text{Cr}^{6+} + \text{H}_2\text{SO}_4 \rightarrow \text{Cr}^{3+}$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Hydrogen sulphide		400	Brown stain is produced and higher readings are given.

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
3.0	4.4	3.7	3.0	2.6	2.2
2.6	3.8	3.2	2.6	2.3	2.0
2.2	3.2	2.7	2.2	2.0	1.7
1.8	2.6	2.2	1.8	1.6	1.4
1.4	2.0	1.7	1.4	1.3	1.1
1.0	1.4	1.2	1.0	0.9	0.9
0.8	1.2	1.0	0.8	0.7	0.6
0.6	0.8	0.7	0.6	0.6	0.5
0.4	0.5	0.5	0.4	0.4	0.3
0.2	0.3	0.2	0.2	0.2	0.2
0.1	0.1	0.1	0.1	0.1	0.1