



## 1. PERFORMANCE

- |                             |  |            |
|-----------------------------|--|------------|
| 1) Measuring range          | : 2-50 ppm   | 0.8-20 ppm |
| Number of pump strokes      | 2 (200mℓ)  | 4 (400mℓ)  |
| 2) Sampling time            | : 4 minutes/2 pump strokes   |            |
| 3) Detectable limit         | : 0.3 ppm (400mℓ)  |            |
| 4) Shelf life               | : 3 years (Necessary to store in a refrigerated place ; 0 ~ 10 °C) |            |
| 5) Operating temperature    | : 0 ~ 40 °C  |            |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE")                   |            |
| 7) Reading                  | : Direct reading from the scale calibrated by 2 pump strokes.      |            |
| 8) Colour change            | : Pink → Yellow  |            |

## 2. RELATIVE STANDARD DEVIATION

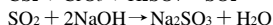
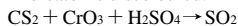
C.V.-low : 10 %   C.V.-mid. : 10 %   C.V.-high : 10 %

## 3. CHEMICAL REACTION

Sulphur dioxide is produced by an Oxidizer.

By reacting between this Sulphur dioxide and alkali,

PH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	ppm	Coexistence
Sulphur dioxide FIG.1	15	Similar stain is produced.		Higher readings are given.
Hydrogen sulphide FIG.2	100	∕	120	∕
Chlorine		Pale pink stain is produced.		∕

(NOTE)

In case of 4 pump strokes, following formula is available for the actual concentration.

Actual concentration =  $2/5 \times$  Temperature corrected value

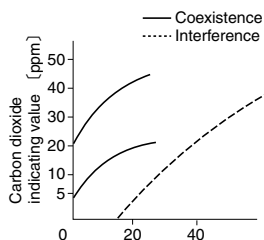


FIG.1 Influence of Sulphur dioxide

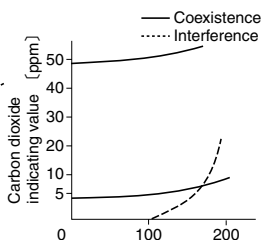


FIG.2 Influence of Hydrogen sulphide

TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
50	72	59	50	43	38
45	65	54	45	39	34
40	58	48	40	34	30
35	51	42	35	30	26
30	44	36	30	26	22
25	37	30	25	21	18
20	31	25	20	17	14
15	24	19	15	13	10
10	16	12	10	8	7
5	9	7	5	4	3
2	3	3	2	2	1