

Tube No.  
103SG

# SULPHUR DIOXIDE IN CARBON DIOXIDE



## 1. PERFORMANCE

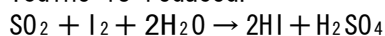
- 1) Measuring range : 0.5-25 ppm    0.1-3 ppm  
     Number of pump strokes    1(100mL)    4(400mL)
- 2) Sampling time : 2 minutes/1 pump stroke
- 3) Detectable limit : 0.09 ppm(400mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation: Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Blue purple → White

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Iodine is reduced.



## 4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Hydrogen sulphide	Whole reagent is changed to Pink.	0.5	Higher readings are given.
Nitrogen dioxide	Whole reagent is changed to Black.	0.5	Lower readings are given.
Ammonia		1.0	"

## 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)
25	40.0	32.5	25.0	22.5	19.0
20	28.0	24.0	20.0	17.7	15.5
15	20.0	17.5	15.0	13.5	12.0
10	12.5	11.3	10.0	9.3	8.5
8	10.0	9.0	8.0	7.5	7.0
6	7.5	6.8	6.0	5.8	5.5
4	4.4	4.2	4.0	3.8	3.6
2	2.0	2.0	2.0	2.0	2.0
1	1.0	1.0	1.0	1.0	1.0
0.5	0.5	0.5	0.5	0.5	0.5