

Tube No.
126SB

CARBON DIOXIDE



1. PERFORMANCE

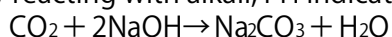
- 1) Measuring range : 0.05-1.0 % 0.021-0.42 %
- Number of pump strokes 1(100mL) 2(200mL)
- 2) Sampling time : 5 minutes/ 1 pump stroke
- 3) Detectable limit : 0.005 %(50 ppm)(100mL)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Purple blue → Pale pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with alkali, PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Chlorine	The accuracy of readings is not affected.		The accuracy of readings is not affected.
Hydrogen sulphide	//		//
Nitrogen dioxide	//		//
Sulphur dioxide	//		//
Hydrogen cyanide	Similar stain is produced.	120	Higher readings are given.

TEMPERATURE CORRECTION TABLE

Tube Readings (%)	Corrected Concentration (%)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
1.0	1.16	1.09	1.00	0.94	0.89
0.9	1.05	0.98	0.90	0.85	0.80
0.8	0.93	0.87	0.80	0.75	0.70
0.7	0.81	0.76	0.70	0.66	0.62
0.6	0.70	0.65	0.60	0.57	0.53
0.5	0.58	0.54	0.50	0.47	0.44
0.4	0.46	0.43	0.40	0.38	0.35
0.3	0.36	0.33	0.30	0.28	0.26
0.2	0.24	0.22	0.20	0.19	0.17
0.1	0.12	0.11	0.10	0.09	0.08