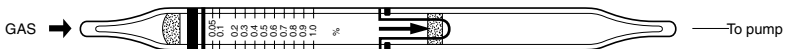


Tube No.
126SB

CARBON DIOXIDE



1. PERFORMANCE

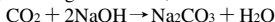
- 1) Measuring range : 0.05-1.0 %
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 5 minutes/1 pump stroke
- 3) Detectable limit : 50 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : 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	ppm	Interference	ppm	Coexistence
Chlorine	20	Pale yellowish blue stain is produced.		When CO ₂ concentration is more than 300 ppm, the accuracy of readings is not affected.
Sulphur dioxide	100	∕		
Hydrogen cyanide		The accuracy of readings not affected.		∕
Hydrogen sulphide		∕		∕
Nitrogen dioxide	30	Pale yellowish blue stain is produced.		∕

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)
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