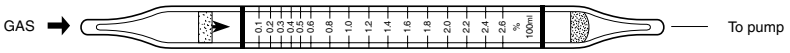
Tube No.
126SA

CARBON DIOXIDE



1. PERFORMANCE

1) Measuring range : 0.2-5.2 % 0.1-2.6 %
Number of pump strokes 1/2 (50mℓ) 1 (100mℓ)
2) Sampling time : 5 minutes/1 pump stroke
3) Detectable limit : 100 ppm (100mℓ)
4) Shelf life : 2 years
5) Operating temperature : 0 ~ 40 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Pale 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.

$CO_2 + 2NaOH \rightarrow NaCO_3 + H_2O$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Hydrogen sulphide	Similar stain is produced.	100	Higher readings are given.
Chloride	〃	100	〃
Hydrogen cyanide	〃	200	〃
Sulphur dioxide	〃	500	〃

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 2 × Temperature corrected value.

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 ℃ (32 ° F)	10 ℃ (50 ° F)	20 ℃ (68 ° F)	30 ℃ (86 ° F)	40 ℃ (104 ° F)
3.5	5.5	4.6	3.5	3.2	2.8
3.0	4.7	3.9	3.0	2.7	2.4
2.5	3.9	3.2	2.5	2.2	2.0
2.0	3.1	2.6	2.0	1.8	1.6
1.5	2.4	1.9	1.5	1.4	1.2
1.0	1.6	1.3	1.0	0.9	0.8
0.8	1.3	1.0	0.8	0.7	0.7
0.5	0.8	0.7	0.5	0.5	0.4
0.3	0.5	0.4	0.3	0.3	0.3
0.1	0.2	0.1	0.1	0.1	0.1