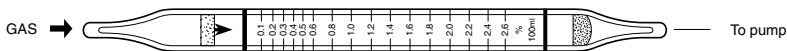


Tube No.  
**126SA**

# CARBON DIOXIDE



## 1. PERFORMANCE

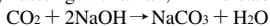
- 1) Measuring range : 0.2-5.2%      0.1-2.6%  
Number of pump strokes : 1/2 (50ml)    1 (100ml)
- 2) Sampling time : 5 minutes/1 pump stroke
- 3) Detectable limit : 100 ppm (100ml)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE 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.



## 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 °C (32° F)	10 °C (50° F)	20 °C (68° F)	30 °C (86° F)	40 °C (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