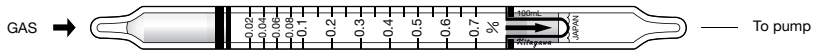
Tube No.
126SG

CARBON DIOXIDE



1. PERFORMANCE

1) Measuring range	: 0.02-0.7 %	0.04-1.4 %
Number of pump strokes	1 (100mℓ)	1/2 (50mℓ)
2) Sampling time	: 1.5 minutes/1 pump stroke	
3) Detectable limit	: 0.001 % (10 ppm) (100mℓ)	
4) Shelf life	: 1 year	
5) Operating temperature	: 0 ~ 40 ℃	
6) Reading	: Direct reading from the scale calibrated by 1 pump stroke	
7) Colour change	: Pink → Yellow	

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with alkali, PH indicator is discoloured.

$CO_2 + 2NaOH \rightarrow Na_2CO_3 + H_2O$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Hydrogen cyanide	Similar stain is produced.	1000	Higher readings are given.
Hydrogen chloride	〃	30	The accuracy of readings is not affected.
Hydrogen sulphide	〃	10	〃
Nitrogen dioxide	〃	5	〃
Sulphur dioxide	〃	100	〃
Chlorine	Original colour is faded to White.	15	〃
Ammonia	The accuracy of readings is not affected.		〃

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2 × Reading value