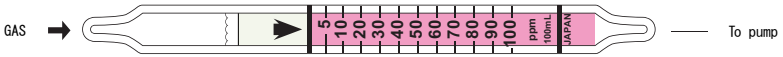
Tube No.
105SE

AMMONIA



1. PERFORMANCE

1) Measuring range : 10-200 ppm 5-100 ppm 1-20 ppm
Number of pump strokes 1/2(50mL) 1(100mL) 5(500mL)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.2 ppm(500mL)
4) Shelf life : 3 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 purple → Pale yellow

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Phosphoric acid, PH indicator is discoloured.

$3NH_3 + H_3PO_4 \rightarrow (NH_4)_3PO_4$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Amines	Similar stain is produced.	Higher readings are given.
Chlorine	No interference	Lower readings are given.
Sulphur dioxide	〃	〃

(NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to detemine the lower concentration and following equation is available to obtain the actual concentration.

Actual concentration＝ Temperature corrected concentration × 1/5

When the concentration is over 100 ppm, 1/2 pump strokes can be used to detemine the higher concentration and following equation is available to obtain the actual concentration.

Actual concentration＝ Temperature corrected concentration × 2

COEFFICIENT TABLE FOR TEMPERATURE CORRECTION (AT 20℃)

Temperature(℃)	0	1	2	3	4	5	6	7	8	9	10～40
Coefficient	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00

Actual concentration＝ Reading value × Coefficient for temperature correction