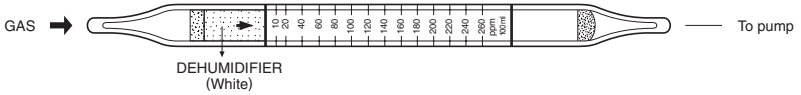
Tube No.
**105SC**

# AMMONIA




## 1. PERFORMANCE

1) Measuring range : 10-260 ppm 5-130 ppm
   Number of pump strokes 1(100mℓ) 2(200mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.5 ppm(200mℓ)
4) Shelf life : 3 years
5) Operating temperature : 0～40℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) 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.

$NH_3 + H_3PO_4 \rightarrow (NH_4)_2HPO_4$

## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|---|---|---|---|
| Amines | Similar stain is produced. | | Higher readings are given. |
| Sulphur dioxide | The accuracy of readings is not affected. | $NH_3$ conc.×1/5 | Lower readings are given. |
| Chlorine | 〃 | 2 | 〃 |

(NOTE)

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