# **AMMONIA**



### 1. PERFORMANCE

1) Measuring range : 1-20 ppm 0.5-10 ppm 0.2-4 ppm Number of pump strokes  $1(100 \text{m} \ell)$   $2(200 \text{m} \ell)$   $5(500 \text{m} \ell)$ 

2) Sampling time ∴ 1 minute/1 pump stroke 3) Detectable limit ∴ 0.1 ppm (100m ℓ)

4) Shelf life : 3 years 5) Operating temperature :  $0 \sim 40 \,^{\circ}\text{C}$ 

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

PERMEATION TUBE METHOD

#### 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Amines	Similar stain is produced.	Higher readings are given.

(NOTE)

When the concentration is below 1 ppm, 2 to 5 pump strokes can be used to determine the lower concentration. Following formula is available for actual concentration.

 $Actual concentration = Reading value \times \frac{1}{Number of pump strokes}$