

## 1. PERFORMANCE

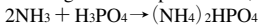
- 1) Measuring range : 5-200 ppm (1 hr.) (8 hrs.)  
10-200 ppm 5-50 ppm
- 2) Sampling time : 8 hrs. (8 mℓ/min.)
- 3) Shelf life : 1 year
- 4) Operating temperature : 10 ~ 30 °C
- 5) Reading : Direct reading from the scale calibrated by 8 hrs. Sampling
- 6) Colour change : Purple → Yellow

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 15 % RSD-mid. : 15 % RSD-high : 15 %

## 3. CHEMICAL REACTION

By reacting with Phosphoric acid, PH indicator is discoloured.



## 4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Sulphur dioxide		20	Lower readings are given.

(NOTE)

- 1) Model PM-2 personal sampler (option) is available for this tube.
- 2) Flow Rate and Sampling Time
  - (1) In case of 8 hours, sampling with 8mℓ/min., the TWA concentration can be read directly by the scale printed on the tube at the top of Yellow stain.
  - (2) If the sampling duration is less than 8 hours, the actual TWA concentration can be obtained graphically from the chart provided below.
  - (3) If the flow rate is not 8mℓ/min, divide the scale reading by the ratio of sampled air volume to 3840mℓ.

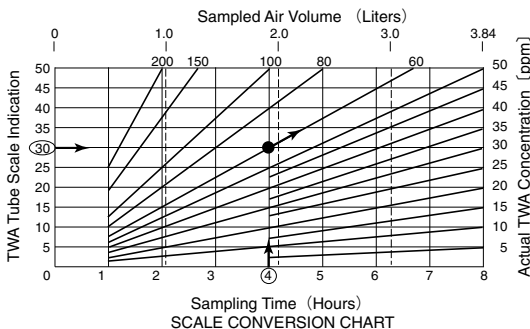
$$\text{Actual TWA concentration (ppm)} = I \times \frac{3840}{V}$$

I = Scale reading  
V = Sampled air volume in ml

[Flow rate (mℓ/min.) × Sampling duration (min.)]

Example :

- (a) If sampling time is 4 hours at 8mℓ/min and scale reading is 30, the actual TWA concentration is 60 ppm.
- (b) If sampled air volume is 2.0ℓ and scale reading is 5, the actual TWA concentration is 9.6 ppm.



SCALE CONVERSION CHART