



1. PERFORMANCE

- 1) Measuring range : 0.1-2.0 ppm 0.05-1.0 ppm
- Number of pump strokes : 1 (100mL) 2 (200mL)
- 2) Sampling time : 1 minute / 1 pump stroke
- 3) Detectable limit : 0.02 ppm (200mL)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0~40°C
- 6) Reading : The tube scales are calibrated based on Phosphine at 1 pump stroke and the tube has the same sensitivity for Arsenine.
- 7) Colour change : Pale yellow → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Mercury chloride (II), Hydrogen chloride is produced and pH indicator is discoloured.
 $AsH_3 + HgCl_2 \rightarrow As(HgCl)_3 + HCl$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Hydrogen selenide	Similar stain is produced.	Higher readings are given.
Mercaptans	//	//
Hydrogen sulphide	//	//
Hydrogen cyanide	Whole reagent is changed to Red.	//
Sulphur dioxide	//	Whole reagent is changed to Pale red, but Purplish red stain indicates Arsenine concentration.

(NOTE)

When the concentration is below 0.1 ppm, 2 pump strokes can be used to determine the lower concentration with the following formula ;
 Actual concentration = 1/2 × Reading value