

1. PERFORMANCE

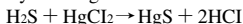
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|--------------------------|---|-----------|------------|
| 1) Measuring range | : 2-40 ppm | 1-20 ppm | 0.5-10 ppm |
| Number of pump strokes | : 1/2 (50mℓ) | 1 (100mℓ) | 2 (200mℓ) |
| 2) Sampling time | : 1 minute/1 pump stroke | | |
| 3) Detectable limit | : 0.2 ppm (200mℓ) | | |
| 4) Shelf life | : 2 years | | |
| 5) Operating temperature | : 0 ~ 40 ℃ | | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | | |
| 7) Colour change | : Yellow → Pink | | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with mercuric chloride, Hydrogen chloride is produced and PH indicator is discoloured.



4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Phosphine	Similar stain is produced.	Higher readings are given.
Mercaptans	//	//
Nitrogen dioxide	Not affected.	Lower readings are given.
Ammonia	//	//
Arsine		Higher readings are given.
Hydrogen selenide		//
Hydrogen cyanide		//
Sulphur dioxide		If possible to read, not affected.

(NOTE)

In case of 1/2 and 2 pump strokes, the following equation is available for the actual concentration.

1/2 pump stroke : Actual concentration = Reading value × 2

2 pump strokes : Actual concentration = Reading value ÷ 2

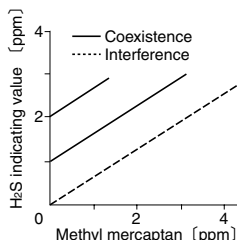


FIG.1 Influence of Methyl mercaptan

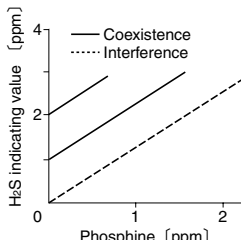


FIG.2 Influence of Phosphine