



1. PERFORMANCE

- | | | | |
|--------------------------|---|----------------|----------------|
| 1) Measuring range | : 1.05-10.5 ppm | 0.525-5.25 ppm | 0.105-1.05 ppm |
| Number of pump strokes | 1/2 (50mL) | 1 (100mL) | 5 (500mL) |
| 2) Sampling time | : 1 minute / 1 pump stroke | | |
| 3) Detectable limit | : 0.02 ppm (500mL) | | |
| 4) Shelf life | : 2 years | | |
| 5) Operating temperature | : 0~40°C (Temperature correction is necessary for 5 pump strokes) | | |
| 6) Operating humidity | : 0~90%R.H. (10~90%R.H. for 5 pump strokes) | | |
| 7) Reading | : The tube scales are calibrated based on Methyl mercaptan at 1 pump stroke and Ethyl mercaptan concentration is determined by multiplying the tube reading by 1.05 | | |
| 8) Colour change | : Pale yellow → Pink | | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with silver compound, Acidic product is produced and pH indicator is discoloured.

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Arsine	Similar stain is produced.	Higher readings are given.
Hydrogen selenide	//	//
Phosphine	//	//
Hydrogen sulphide	//	//

(NOTE)

In case of 1/2 and 5 pump strokes, following formula is available for the actual concentration.

1/2 pump strokes : Actual concentration = Reading value × 2 × 1.05

5 pump strokes : Actual concentration = Temperature corrected value × 0.2 × 1.05

TABLE OF COEFFICIENT FOR TEMPERATURE CORRECTION (500mL)

Temperature(°C)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Coefficient	0.8	0.9	1	1.1	1.2