

## 1. PERFORMANCE

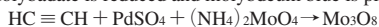
- 1) Measuring range : 50-1000 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 3 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) Colour change : Pale yellow → Brownish blue

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Molybdate is reduced and molybdeum blue is produced.



## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

| Substance  | Interference   | ppm | Coexistence  |
|--|--|-----|--|
| Carbon monoxide  | Whole layer is discoloured to Green or Blue.           | 50  | Whole layer is discoloured to Green or Blue and higher readings are given. |
| Hydrogen (over 40 °C)  | ∕  | 10% | Whole layer is discoloured to Green and higher readings are given.         |
| Unsaturated hydrocarbons such as Ethylene, Propylene, Butylene, etc.             | Similar stain is produced.                             | 10  | Higher readings are given.   |
| Saturated hydrocarbons such as Propane, Butane, etc. (more than C <sub>3</sub> ) | ∕  | 10  | ∕  |
| Butadiene  | Original colour is faded to white.                     | 25  | Original colour is faded to White and lower readings are given.            |
| Hydrogen sulphide  | Whole layer is discoloured to Black.                   | 10  | Black stain is produced.   |
| Ammonia  | Original colour is faded to White.                     |     | Original colour is faded to White and lower readings are given.            |
| Hydrogen cyanide   | ∕  |     | Blue stain is produced and higher reading are given.                       |
| Chlorine   | Yellowish orange or Yellowish brown stain is produced. |     | Higher readings are given.   |
| Nitrogen dioxide   | ∕  |     | ∕  |
| Carbon disulphide  | ∕  |     | ∕  |