



1. PERFORMANCE

- | | | |
|--------------------------|---|-----------|
| 1) Measuring range | : 5-600 ppm | 1-120 ppm |
| Number of pump strokes | 1 (100mℓ) | 5 (500mℓ) |
| 2) Sampling time | : 1.5 minutes/1 pump stroke | |
| 3) Detectable limit | : 0.5 ppm (500mℓ) | |
| 4) Shelf life | : 1 year | |
| 5) Operating temperature | : 0 ~ 40 °C | |
| 6) Reading | : Direct reading from the scale calibrated by 1 pump stroke | |
| 7) Colour change | : Pale yellow → Dark brown | |

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Gold chloride (III), Colloidal gold is liberated.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | ppm | Interference | ppm | Coexistence |
|-------------------|-----|------------------------------|------|----------------------------|
| Acetylene | | | 3% | Higher readings are given. |
| Carbon monoxide | | | 0.1% | ∕ |
| Sulphur dioxide | | Pale blue stain is produced. | | ∕ |
| Hydrogen sulphide | 10 | Brown stain is produced. | | ∕ |
| Mercury vapours | | Similar stain is produced. | | |
| Arsine | | ∕ | 10 | ∕ |
| Iron carbonyl | | ∕ | 10 | ∕ |
| Nickel carbonyl | | ∕ | 10 | ∕ |

(NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to determine the lower concentration.

Following formula is available for the actual concentration.

Actual concentration = $1/5 \times$ Reading value