

1. PERFORMANCE

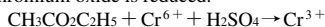
- 1) Measuring range : 0.1-5.0 %
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Orange → Brownish green

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | ppm | Coexistence |
|--|----------------------------|------|--|
| Acetylene | | 3% | Whole reagent is discoloured to Brown. |
| Propane | | 0.2% | „ |
| Other organic or vapours except Halogenated hydrocarbons | Similar stain is produced. | 50 | Higher reading are given. |

TEMPERATURE CORRECTION TABLE

| Scale Readings (%) | True Concentration (%) | | | | |
|--------------------|------------------------|-------------|-------------|-------------|--------------|
| | 0°C (32°F) | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) | 40°C (104°F) |
| 5.0 | — | — | 5.0 | 4.0 | 3.0 |
| 4.5 | — | — | 4.5 | 3.6 | 2.7 |
| 4.0 | — | — | 5.8 | 4.0 | 3.2 |
| 3.5 | — | — | 5.0 | 3.5 | 2.8 |
| 3.0 | — | — | 4.2 | 3.0 | 2.3 |
| 2.5 | — | — | 3.5 | 2.5 | 1.9 |
| 2.0 | — | — | 2.6 | 2.0 | 1.5 |
| 1.5 | 2.6 | 1.9 | 1.5 | 1.1 | 0.7 |
| 1.0 | 1.5 | 1.2 | 1.0 | 0.7 | 0.4 |
| 0.5 | 0.6 | 0.6 | 0.5 | 0.3 | 0.2 |
| 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |