

1. PERFORMANCE

- 1) Measuring range : 50-1,400 ppm
Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 5 ppm
- 4) Shelf life : 2 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 → Yellowish green

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



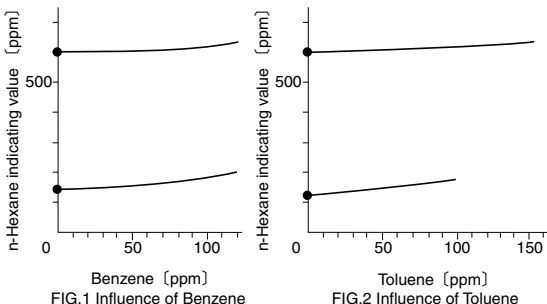
4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

| Substance | Interference | Coexistence |
|---|----------------------------|----------------------------|
| Aromatic hydrocarbons FIG.1,2 | Black stain is produced. | Higher readings are given. |
| Paraffin hydrocarbons (more than C ₃) | Similar stain is produced. | ∕ |

In presence of Alcohols, Ketones or Esters less than 6 %, the accuracy of readings is not affected.



TEMPERATURE CORRECTION TABLE

| Scale Readings (ppm) | True Concentration (ppm) | | | | |
|----------------------|--------------------------|---------------|---------------|---------------|----------------|
| | 0 °C (32 °F) | 10 °C (50 °F) | 20 °C (68 °F) | 30 °C (86 °F) | 40 °C (104 °F) |
| 1,400 | 1,730 | 1,530 | 1,400 | 1,270 | 1,180 |
| 1,200 | 1,470 | 1,320 | 1,200 | 1,090 | 1,010 |
| 1,000 | 1,230 | 1,100 | 1,000 | 910 | 840 |
| 800 | 980 | 870 | 800 | 720 | 670 |
| 600 | 740 | 660 | 600 | 550 | 500 |
| 400 | 470 | 430 | 400 | 360 | 330 |
| 200 | 220 | 210 | 200 | 180 | 170 |
| 100 | 100 | 100 | 100 | 100 | 100 |