



### 1. PERFORMANCE

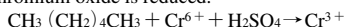
- 1) Measuring range : 0.1-1.32 % 0.05-0.6 %
- Number of pump strokes : 1/2 (50mℓ) 1 (100mℓ)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 50 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Orange → Dark green

### 2. RELATIVE STANDARD DEVIATION

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

### 3. CHEMICAL REACTION

Chromium oxide is reduced.



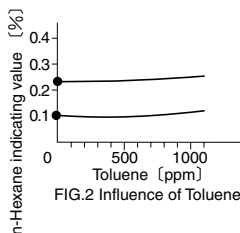
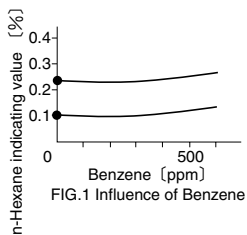
### 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

### 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Paraffin hydrocarbons	Similar stain is produced.		Higher readings are given.
Acetylene	∕		∕
Ethylene	∕		∕
Cyclohexane	∕		∕
Benzene	FIG.1 Black stain is produced.	400	∕
Toluene	FIG.2	800	∕
Xylene	∕	2,000	∕

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



TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
0.6	0.78	0.67	0.60	0.53	0.49
0.5	0.62	0.54	0.50	0.45	0.41
0.4	0.48	0.43	0.40	0.36	0.34
0.3	0.34	0.32	0.30	0.28	0.26
0.2	0.22	0.21	0.20	0.19	0.18
0.1	0.10	0.10	0.10	0.10	0.10

(NOTE)

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

Actual concentration = 2.2 × Temperature corrected value