

## 1. PERFORMANCE

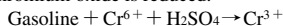
- 1) Measuring range : 0.05-0.6 %  
Number of pump strokes : 1 (100ml)  
(This detector tube is calibrated by Hexane.)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 50 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (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. : 10% 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
Benzene FIG.1	Similar stain is produced.	400	Higher readings are given.
Toluene FIG.2	∕	800	∕
Xylene	∕	2,000	∕
Acetylene	Whole layer is discoloured to Dark green.		∕
Ethylene	Similar stain is produced.		∕
Cyclohexane	∕		∕
Paraffin hydrocarbons	∕		∕

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

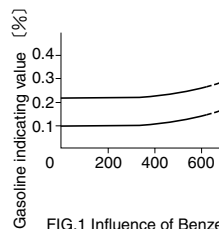


FIG.1 Influence of Benzene

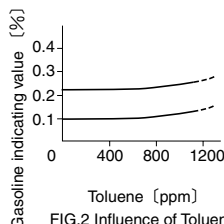


FIG.2 Influence of Toluene

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	0.73	0.65	0.60	0.52	0.48
0.5	0.60	0.55	0.50	0.45	0.42
0.4	0.48	0.44	0.40	0.37	0.35
0.3	0.35	0.32	0.30	0.28	0.27
0.2	0.22	0.21	0.20	0.19	0.18
0.1	0.10	0.10	0.10	0.10	0.10