

## 1. PERFORMANCE

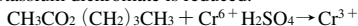
- 1) Measuring range : 10-400 ppm  
Number of pump strokes 1 (100mℓ)
- 2) Sampling time 1.5 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 1 year
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Pale yellow → Pale blue (The top of discoloured layer is to Brown.)

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

Potassium dichromate is reduced.



## 4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Esters	Similar stain is produced.	Higher readings are given.
Alcohols	FIG.1	∕
Ketones	∕	∕
Aromatic hydrocarbons	Whole reagent is changed to Pale brown.	∕

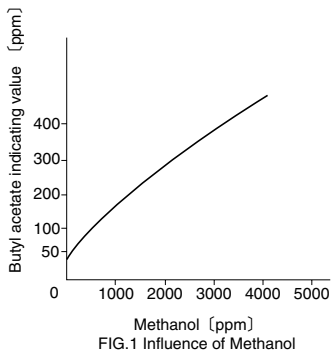


FIG.1 Influence of Methanol

## TEMPERATURE CORRECTION TABLE

Scale Readings (ppm)	True Concentration (ppm)							
	10°C (50° F)	15°C (59° F)	20°C (68° F)	25°C (77° F)	30°C (80° F)	35°C (95° F)	40°C (95° F)	
400	—	—	400	235	180	145	120	
300	—	—	300	185	145	120	100	
200	—	345	200	140	110	95	80	
150	—	255	150	115	95	80	70	
100	—	145	100	80	70	60	50	
50	90	65	50	40	35	30	30	
30	45	35	30	25	25	20	20	
15	20	20	15	15	10	10	10	