

## 1. PERFORMANCE

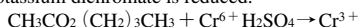
- 1) Measuring range : 10-400 ppm  
Number of pump strokes 1 (100mℓ)
- 2) Sampling time 1.5 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 1 year
- 5) Operating temperature : 10 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : 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. | ∕                          |

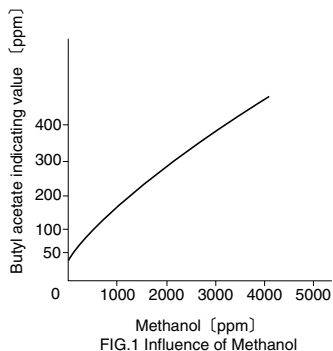


FIG.1 Influence of Methanol

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            |