

1. PERFORMANCE

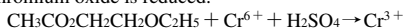
- 1) Measuring range : 5-150 ppm
Number of pump strokes : 3 (300ml)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 2 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10 ~ 35 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Graduations printed on the tube are calibrated by Ethyl cellosolve at 3 pump strokes and Ethyl cellosolve acetate concentration is determined by using a conversion chart.
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



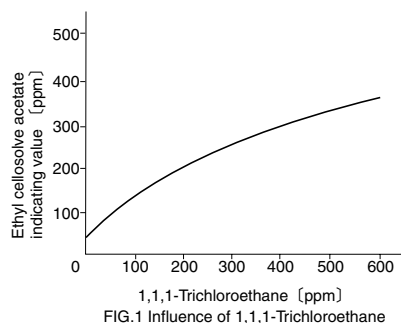
4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

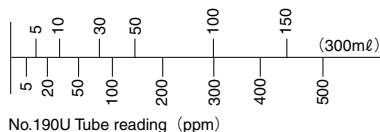
5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher readings are given.
Ethers	∕	∕
Paraffin hydrocarbons (more than C ₃)	Whole reagent is changed to Pale Brown.	∕
Aromatic hydrocarbons	∕	∕
Esters	∕	∕
Ketones	∕	∕
Halogenated hydrocarbons	∕	∕

FIG.1



Ethyl cellosolve acetate (ppm)



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)
150	225	190	150	115	90	75
100	160	130	100	80	65	55
50	80	60	50	40	35	30
20	25	23	20	18	16	14
10	10	10	10	10	8	7
5	5	5	5	5	5	5