

1. PERFORMANCE

- 1) Measuring range : 10-250 ppm
Number of pump strokes : 3 (300ml)
- 2) Sampling time : 4.5 minutes/3 pump strokes
- 3) Detectable limit : 1 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 10 ~ 40 °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 Diacetone alcohol concentration is determined by using a conversion chart.
- 8) Colour change : Yellow → Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.

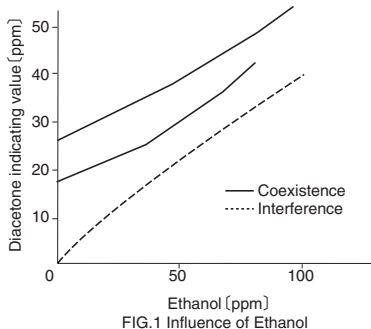


4. CALIBRATION OF THE TUBE

GAS CHROMATOGRAPHY

5. INTERFERENCE AND CROSS SENSITIVITY

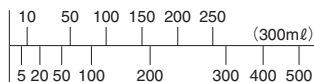
Substance	Interference	Coexistence
Alcohols FIG.1	Similar stain is produced.	Higher readings are given.
Halogenated hydrocarbons	∕	
Aliphatic hydrocarbons	Whole reagent is discoloured to Pale brown.	It the top of Pale blue stain is clear, the accuracy of readings is not affected.
Aromatic hydrocarbons	∕	∕
Esters	∕	∕



TEMPERATURE CORRECTION TABLE

Conver. value (ppm)	Corrected Concentration (ppm)						
	10 °C (50 °F)	15 °C (59 °F)	20 °C (68 °F)	25 °C (77 °F)	30 °C (86 °F)	35 °C (95 °F)	40 °C (104 °F)
250	—	380	250	170	130	90	70
200	440	300	200	140	100	80	60
150	330	210	150	110	80	60	50
100	200	130	100	80	60	40	30
50	80	60	50	40	30	20	16
30	50	40	30	23	18	12	8
10	16	14	10	8	6	4	3

Diacetone alcohol (ppm)



No.190U Tube reading (ppm)