

1. PERFORMANCE

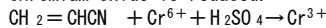
- 1) Measuring range : 10–500 ppm
Number of pump strokes 1(100mL)
- 2) Sampling time : 1.5 minutes/1 pump stroke
- 3) Detectable limit : 1 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation: Necessary (See “TEMPERATURE CORRECTION COEFFICIENT TABLE”)
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow→Pale blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Chromium oxide is reduced.



4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substanc	ppm	Coexistence
Alcohols		Higher readings are given.
Esters		“
Ketones		“
Aromatic hydrocarbon		“
Aliphatic hydrocarbon (C ³⁺)		If the top of discoloured layer is possible to read, the accuracy of the readings is not affected.
Halogenated hydrocarbon		“

TEMPERATURE CORRECTION TABLE (on a basis of 20°C)

Scale Readings (ppm)	True Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
500	—	—	1.00	0.90	0.78
400	—	1.25	1.00	0.90	0.78
300	1.60	1.25	1.00	0.90	0.78
200	1.60	1.25	1.00	0.90	0.78
100	1.55	1.25	1.00	0.90	0.80
50	1.34	1.20	1.00	0.94	0.88
30	1.30	1.17	1.00	0.97	0.90
10	1.30	1.10	1.00	1.00	0.90