



1. PERFORMANCE

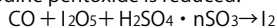
- 1) Measuring range : 0.23-23.0% 0.1-10.0%
- Number of pump strokes : 1/2 (50mL) 1 (100mL)
- 2) Sampling time : 2 minutes / 1 pump stroke
- 3) Detectable limit : 0.01% (100mL)
- 4) Shelf life : 3 years
- 5) Operating temperature : 0~40°C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : White → Dark brown

2. RELATIVE STANDARD DEVIATION

RSD-low : 15% RSD-mid. : 15% RSD-high : 10%

3. CHEMICAL REACTION

Iodine pentoxide is reduced.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Acetylene	Similar stain is produced.	0.1	Higher reading are given.
Ethylene	//	1	//
Isobutane	Speckled stain is produced.	0.5	//
Propane	//	—	The accuracy of reading is not affected.
Hexane	FIG.1 Similar stain is produced.	0.4	Higher readings with indiscernable maximum end of the stain are given.

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.

Actual concentration = 2.3 × Temperature corrected value

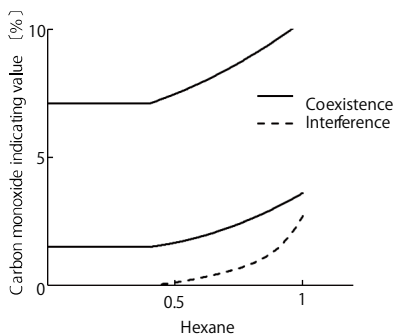


FIG.1 Influence of Hexane

TEMPERATURE CORRECTION TABLE

Tube Readings (ppm)	Corrected Concentration (ppm)				
	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
10.0	4.8	8.0	10.0	12.5	15.0
8.0	4.1	6.4	8.0	10.0	12.0
6.0	3.1	4.8	6.0	7.5	9.0
4.0	2.4	3.2	4.0	5.0	6.0
2.0	1.4	1.7	2.0	2.5	3.0
1.0	0.76	0.85	1.0	1.25	1.45
0.5	0.4	0.43	0.5	0.63	0.70
0.3	0.23	0.24	0.3	0.38	0.45
0.1	0.07	0.08	0.1	0.13	0.15