



## 1. PERFORMANCE

- 1) Measuring range : 50-1,600 ppm
- Number of pump strokes : 1 (100mL)
- 2) Sampling time : 1 minute / 1 pump stroke
- 3) Detectable limit : 20 ppm
- 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 : Pale yellow → Dark blue

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with Palladium sulphate and Ammonium molybdate, Palladium sulphate is produced.  
 $H_2S + PdSO_4 + (NH_4)_2MoO_4 \rightarrow PdS$

## 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbon monoxide		10	Whole reagent is changed to Blue and higher readings are given.
Ethylene		5	Similar stains are produced and higher readings are given.
Propylene		5	//
Butylene		5	//
Acetylene		5	//
Methylacetylene		5	//
Hydrogen cyanide		—	White stain is produced and discolouration by Hydrogen sulphide is interfered.
Ammonia		—	//
Sulphur dioxide		6%	The accuracy of readings is not affected.

## 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)
1600	1100	1400	1600	1700	1700
1400	980	1200	1400	1500	1500
1200	850	1000	1200	1300	1300
1000	700	850	1000	1000	1100
800	600	700	800	800	900
600	470	550	600	600	700
400	340	400	400	400	400
300	270	300	300	300	300
200	180	200	200	200	200
100	100	100	100	100	100
50	50	50	50	50	50

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