

1. PERFORMANCE

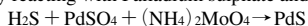
- 1) Measuring range : 0.005-0.16 %
Number of pump strokes : 1 (100ml)
- 2) Sampling time : 1 minute/1 pump stroke
- 3) Detectable limit : 20 ppm
- 4) Shelf life : 3 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 6) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) 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.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbon monoxide		10	Blue stain is produced and higher readings are given.
Ethylene		5	Higher readings are given.
Propylene		5	∕
Butylene		5	∕
Acetylene		5	∕
Methyl mercaptan		5	∕
Hydrogen cyanide			White stain is produced and the discolouration by Hydrogen sulphide is interfered.
Ammonia			∕

If there is coexistence of Sulphur dioxide less than 6 %, the accuracy of readings is not affected.

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 °C (32 °F)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)	40 °C (104 °F)
0.16	0.14	0.15	0.16	0.17	0.17
0.14	0.13	0.13	0.14	0.15	0.15
0.12	0.11	0.12	0.12	0.13	0.13
0.10	0.09	0.10	0.10	0.10	0.11
0.08	0.07	0.08	0.08	0.08	0.09
0.06	0.05	0.06	0.06	0.06	0.07
0.04	0.04	0.04	0.04	0.04	0.04
0.03	0.03	0.03	0.03	0.03	0.03
0.02	0.02	0.02	0.02	0.02	0.02