

1. PERFORMANCE

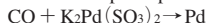
- 1) Measuring range : 10-250 ppm
Number of pump strokes : 3 (300mℓ)
- 2) Sampling time : 9 minutes/3 pump strokes
- 3) Detectable limit : 1 ppm (300mℓ)
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 3 pump strokes
- 8) Colour change : Yellow → Dark brown

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Potassium disulphate palladate (II) is reduced, and Palladium is liberated.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	%	Coexistence
Hydrogen sulphide	5	Dark red stain is produced.	CO conc. × 1/5	Higher readings are given.
Sulphur dioxide	120	Pale yellow stain is produced.	CO conc. × 1/5	∕
Nitrogen dioxide		The accuracy of readings is not affected.	CO conc. × 1/5	∕
Ethylene	0.5			∕
Alcohols	1			∕
Ketones	1			∕
Olefinic hydrocarbons	1			∕
Aromatic hydrocarbons	1			∕
Halogenated hydrocarbons	1			∕
Ammonia	1			∕
Aliphatic hydrocarbons	1			Lower readings are given.

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)
250	210	230	250	275
200	170	185	200	220
150	130	140	150	165
100	80	90	100	110
75	65	70	75	80
50	40	45	50	55
25	20	25	25	30