

1. PERFORMANCE

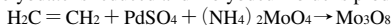
- 1) Measuring range : 20-1,200 ppm
- Number of pump strokes : 1 (100mℓ)
- 2) Sampling time : 3 minutes/1 pump stroke
- 3) Detectable limit : 10 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
- 7) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 8) Colour change : Yellow → Blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Molybdate is reduced and molybdeum blue is produced.



4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	Coexistence
Carbon monoxide FIG.1	10	Whole layer is discoloured to Green.	Higher readings are given.
Hydrogen sulphide FIG.2	500	Black stain is produced.	∕
Acetylene	20	Similar stain is produced.	∕
Propylene		∕	∕

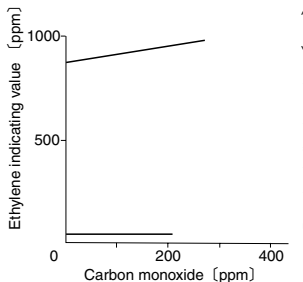


FIG.1 Influence of Carbon monoxide

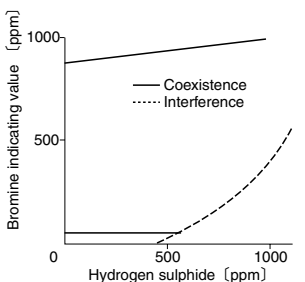


FIG.2 Influence of Hydrogen sulphide

TEMPERATURE CORRECTION TABLE

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)
1,200	950	1,100	1,200	1,300	1,350
1,000	800	900	1,000	1,050	1,100
800	650	720	800	820	840
600	550	550	600	600	600
400	400	400	400	400	400
200	200	200	200	180	150
100	100	100	100	50	—
50	70	60	50	—	—
20	40	30	20	—	—