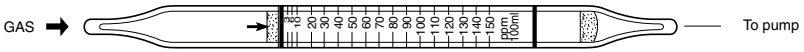
Tube No.
120SB

HYDROGEN SULPHIDE



1. PERFORMANCE

1) Measuring range	: 3-150 ppm	1-50 ppm	0.75-37.5 ppm	6-300 ppm
Number of pump strokes	1 (100mℓ)	3 (300mℓ)	4 (400mℓ)	1/2 (50mℓ)

2) Sampling time : 1 minutes/1 pump stroke
3) Detectable limit : 0.3 ppm (300mℓ)
4) Shelf life : 3 years
5) Operating temperature : 0 ~ 40 ℃
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : White → Dark brown

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Lead acetate (II), Lead sulphide is produced.

$$H_2S + Pb(CH_3CO_2)_2 \rightarrow PbS + 2CH_3CO_2H$$

4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	ppm	Coexistence
Sulphur dioxide	FIG.1	The accuracy of readings is not affected.	12	Higher readings are given.
Mercaptans	FIG.2	〃	550	〃
Nitrogen dioxide	FIG.3	〃	2	Lower readings are given.

(NOTE)

In case of 1/2, 2, 3 or 4 pump strokes, following formula is available for the actual concentration.

$$\text{Actual concentration} = \text{Reading value} \times \frac{1}{\text{Number of strokes}}$$

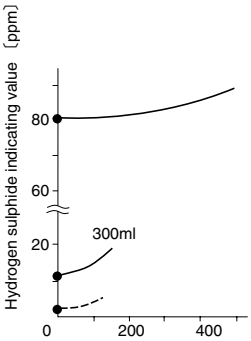


FIG.1 Influence of Sulphur dioxide

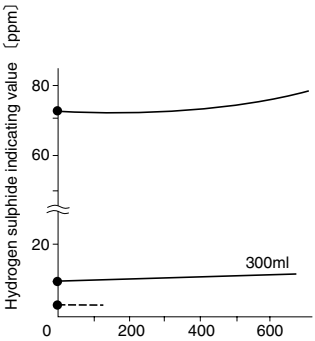


FIG.2 Influence of Ethyl mercaptan

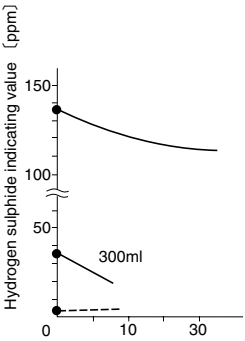


FIG.3 Influence of Nitrogen dioxide