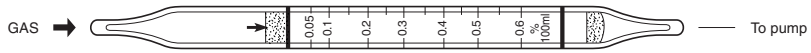
Tube No.
120SM

HYDROGEN SULPHIDE



1. PERFORMANCE

1) Measuring range : 0.1-1.2 % 0.05-0.6 %
Number of pump strokes 1/2(50mℓ) 1(100mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 0.001 % (10 ppm) (100mℓ)
4) Shelf life : 2 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 : 5 % RSD-mid. : 5 % RSD-high : 5 %

3. CHEMICAL REACTION

By reacting with Cupric sulphate (II), Cupric sulphide is produced.

$H_2S + CuSO_4 \rightarrow CuS$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	%	Coexistence
Sulphur dioxide FIG.1	The accuracy of readings is not affected.	0.3	Higher readings are given.
Ammonia	Blue stain is produced.		The accuracy of readings is not affected.
Methyl mercaptan	Pale yellow stain is produced.		〃

(NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration.
Actual concentration = 2 × Reading value

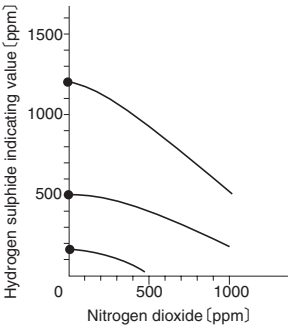


FIG.1 Influence of Nitrogen dioxide

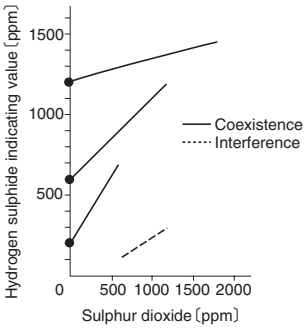


FIG.2 Influence of Sulphur dioxide