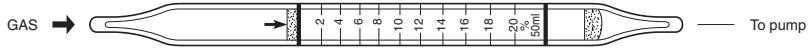
Tube No.
120UH

HYDROGEN SULPHIDE



1. PERFORMANCE

1) Measuring range : 2-20 %
   Number of pump strokes 1/2 (50mℓ)
2) Sampling time : 1 minute/1/2 pump strokes
3) Detectable limit : 0.05 %
4) Shelf life : 3 years
5) Operating temperature : 0 ~ 40 ℃
6) Reading : Direct reading from the scale calibrated by 1/2 pump stroke
7) Colour change : Pale blue → Black

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % 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.	2	Lower readings are given.
Carbon dioxide	〃		The accuracy of readings is not affected.

(NOTE)

1) Where the discolouration is over the scale, non-reacted Hydrogen sulphide remains in the pump. This residual Hydrogen sulphide is not exhausted even if the pump handle is pushed back, and it still remains in the pump. When the handle is pulled next, it is exhausted toward the operator from the stopper side of the pump. Accordingly, air purging of the pump inside by pulling/pushing the handle several times should be done in fresh air where there is not Hydrogen sulphide, because Hydrogen sulphide is very toxic. During the air purging, protection apparatus such as a gas mask should be worn.
2) Maximum sampling volume of the gas shall be approximately 70mℓ.

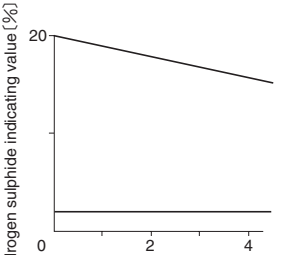


FIG.1 Influence of Sulphur dioxide