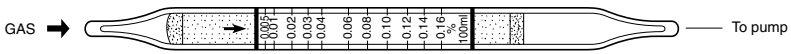
Tube No.
120SC

HYDROGEN SULPHIDE



1. PERFORMANCE

1) Measuring range : 0.005-0.16 %
   Number of pump strokes 1 (100mℓ)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 20 ppm
4) Shelf life : 3 years
5) Operating temperature : 0 ~ 40 ℃
6) Temperature compensation : Necessary (See "TEMPERATURE CORRECTION TABLE")
6) Reading : Direct reading from the scale calibrated by 1 pump stroke
7) Colour change : Pale yellow → Dark blue

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Palladium sulphate and Ammonium molybdate, Palladium sulphate is produced.

$H_2S + PdSO_4 + (NH_4)_2MoO_4 \rightarrow PdS$

4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbon monoxide		10	Blue stain is produced and higher readings are given.
Ethylene		5	Higher readings are given.
Propylene		5	〃
Butylene		5	〃
Acetylene		5	〃
Methyl mercaptan		5	〃
Hydrogen cyanide			White stain is produced and the discolouration by Hydrogen sulphide is interfered.
Ammonia			〃

If there is coexistence of Sulphur dioxide less than 6 %, the accuracy of readings is not affected.

TEMPERATURE CORRECTION TABLE

Scale Readings (%)	True Concentration (%)				
	0 ℃ (32 ° F)	10 ℃ (50 ° F)	20 ℃ (68 ° F)	30 ℃ (86 ° F)	40 ℃ (104 ° F)
0.16	0.14	0.15	0.16	0.17	0.17
0.14	0.13	0.13	0.14	0.15	0.15
0.12	0.11	0.12	0.12	0.13	0.13
0.10	0.09	0.10	0.10	0.10	0.11
0.08	0.07	0.08	0.08	0.08	0.09
0.06	0.05	0.06	0.06	0.06	0.07
0.04	0.04	0.04	0.04	0.04	0.04
0.03	0.03	0.03	0.03	0.03	0.03
0.02	0.02	0.02	0.02	0.02	0.02