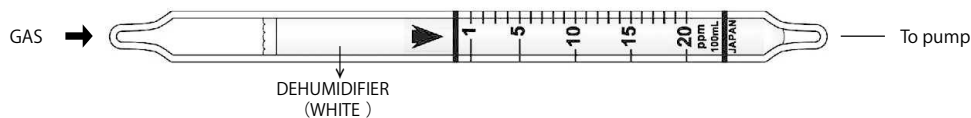


Tube No.  
120SE2

# HYDROGEN SULPHIDE



## 1. PERFORMANCE

- |                             |  |           |            |
|-----------------------------|--|-----------|------------|
| 1) Measuring range          | : 2-40 ppm   | 1-20 ppm  | 0.5-10 ppm |
| Number of pump strokes      | : 1/2 (50mL)   | 1 (100mL) | 2 (200mL)  |
| 2) Sampling time            | : 1 minute / 1 pump stroke                                   |           |            |
| 3) Detectable limit         | : 0.05 ppm (200mL)   |           |            |
| 4) Shelf life               | : 3 years  |           |            |
| 5) Operating temperature    | : 0 ~ 40°C   |           |            |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION COEFFICIENT TABLE") |           |            |
| 7) Reading                  | : Direct reading from the scale calibrated by 1 pump stroke  |           |            |
| 8) Colour change            | : Pale brown → Pink  |           |            |

## 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with silver compound, Acidic product is produced and pH indicator is discoloured.

## 4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Phosphine	Similar stain is produced.	—	Higher readings are given.
Mercaptans	"	—	"
Arsine	"	—	"
Hydrogen selenide	"	—	"
Hydrogen cyanide	"	0.1	"
Nitrogen dioxide	The accuracy of readings is not affected.	1	Lower readings are given.
Ammonia	"	15	The discolouration fades from the inlet side at 200mL.
Hydrogen chloride	"	less than 20	The accuracy of readings is not affected.
Hydrogen fluoride	"	less than 30	"
Nitric acid	"	less than 20	"
Sulphur dioxide	"	less than 40	"

(NOTE)

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

1/2 pump strokes : Actual concentration = Reading value × 2

2 pump strokes : Actual concentration = Reading value × 0.5

TEMPERATURE CORRECTION COEFFICIENT TABLE (AT 20°C)

Temperature(°C)	0	10	15	20 - 25	30	40
Correction factor	0.7	0.85	0.93	1.0	1.1	1.2

Actual concentration = Reading value × Coefficient for temperature correction