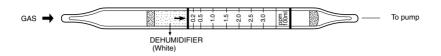
# **HYDROGEN SULPHIDE**



## 1. PERFORMANCE

4) Shelf life : 2 years 5) Operating temperature :  $0 \sim 40 \,^{\circ}\text{C}$ 

6) Reading : Direct reading from the scale calibrated by 1 pump stroke

7) Colour change : Pale yellow→Pink

#### 2. RELATIVE STANDARD DEVIATION

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

## 3. CHEMICAL REACTION

By reacting with Mercury chloride (II), Hydrogen chloride is produced and PH indicator is discoloured. H<sub>2</sub>S + HgCl<sub>2</sub>→ HgS + HCI

# 4. CALIBRATION OF THE TUBE

PERMEATION TUBE METHOD

# 5. INTERFERENCE AND CROSS SENSITIVITY

Substance		Interference	Coexistence
Sulphur dioxide	G.1	Whole reagent is changed to Pale red, but Purplish red stain is indicated H <sub>2</sub> S concentration.	
Hydrogen selenide		Similar stain is produced.	Higher readings are given.
Arsine		"	"
Mercaptans FI	3.2	"	"
Phosphine		"	"
Hydrogen cyanide		Whole reagent is changed to Red.	"

#### (NOTE)

In case of 1/2 pump strokes, following formula is available for the actual concentration. Actual concentration  $= 2 \times \text{Reading value}$ 

