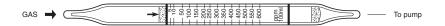
# **HYDROGEN SELENIDE**



## 1. PERFORMANCE

1) Measuring range : 5-600 ppm 1-120 ppm Number of pump strokes  $1 (100 \text{m} \ell)$   $5 (500 \text{m} \ell)$  2) Sampling time : 1.5 minutes/1 pump stroke

3) Detectable limit : 0.5 ppm (500mℓ) 4) Shelf life : 1 year

4) Shelf life : 1 year 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→ Dark brown

#### 2. RELATIVE STANDARD DEVIATION

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

#### 3. CHEMICAL REACTION

By reacting with Gold chloride, Colloidal gold is liberated. H2Se + AuCI₃→Au

#### 4. CALIBRATION OF THE TUBE

STANDARD GAS CYLINDER METHOD

#### 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference	Coexistence
Acetylene	3%	Higher readings are given.	Higher readings are given.
Carbon monoxide	0.1%	"	"
Sulphur dioxide		Pale blue stain is produced.	"
Hydrogen sulphide	10	Brown stain is produced.	"
Mercury vapours		Similar stain is produced.	"
Arsine	10	"	"
Iron carbonyl	10	"	"
Nickel carbonyl	10	"	"

### (NOTE)

When the concentration is below 5 ppm, 5 pump strokes can be used to determine the lower concentration with the following formula.

Actual concentration =  $1/5 \times$  Reading value