



1. PERFORMANCE

- 1) Measuring range :

Hydrogen sulphide	1-30 ppm
Mercaptans	0.5-5 ppm
Number of pump strokes	1 (100mℓ)
- 2) Sampling time : 3 minutes/1 pump stroke
- 3) Detectable limit :

Hydrogen sulphide	0.2 ppm
Mercaptans	0.2 ppm
- 4) Shelf life : 2 years
- 5) Operating temperature : 0 ~ 40 °C
- 6) Reading : Direct reading from the scale calibrated by 1 pump stroke
- 7) Colour change :

Hydrogen sulphide	White → Dark brown
Mercaptans	Pale yellow → Pink

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

Hydrogen sulphide detector tube : $\text{H}_2\text{S} + \text{Pb}(\text{CH}_3\text{CO}_2)_2 \rightarrow \text{PbS} + 2\text{CH}_3\text{CO}_2\text{H}$

Mercaptans detector tube : $\text{R-SH} + \text{HgCl}_2 \rightarrow \text{RS}(\text{HgCl}) + \text{HCl}$

4. CALIBRATION OF THE TUBE

Hydrogen sulphide	PERMEATION TUBE METHOD
Mercaptans	STANDARD GAS CYLINDER METHOD

5. INTERFERENCE AND CROSS SENSITIVITY