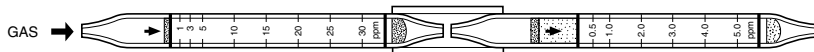


Tube No.  
**2825**

# **HYDROGEN SULPHIDE · MERCAPTANS**



## **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**