

# Information Data Sheet

**Detector Tube**      **H<sub>2</sub>S-100**  
**Part No. (US):**      **487340**  
**Part No.**              **D5085827**

## 1. Application

Detection of hydrogen sulfide (H<sub>2</sub>S) in air or in technical gases.

## 2. Detector Tube Sampling Pump

UNIPHOS KWIK DRAW (formerly MSA AUER) Gas-Tester<sup>®</sup> I/H, Gas-Tester<sup>®</sup> I / ThumbPump<sup>™</sup>-Sampler, Toximeter<sup>®</sup> II, Uniphos Kwik-Draw<sup>™</sup>-Pump or other suitable detector tubes pumps. Observe respective instructions for use.

## 3. Measuring Range

100 ppm ... 4000 ppm hydrogen sulfide at n=1 (1 stroke)

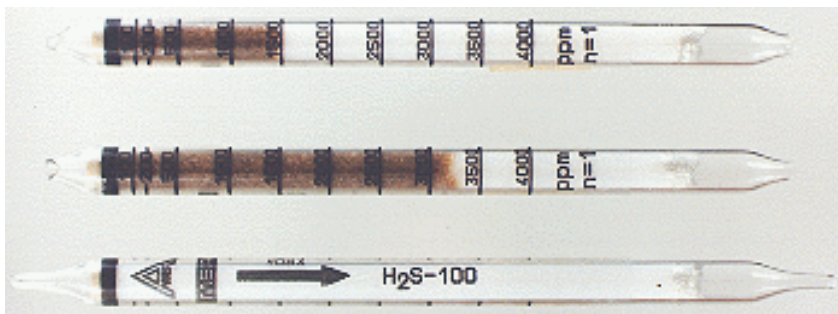
Any number of strokes from 1 to 10 can be chosen. For calculation use n=10 scale, relate as follows:

$$\text{ppm H}_2\text{S} = \frac{\text{indication on n=1 scale}}{\text{no. of strokes chosen}}$$

## 4. Chemical Reaction and Color Change

Reaction of hydrogen sulfide with lead compound forming lead sulfide.

Color change:    white      →      brown



## 5. Ambient Conditions During Sampling

Detector tubes can be used without compensation of the reading between 0 °C and 50 °C (32 °F and 120 °F) and between 10 % rh (0.5 g/m<sup>3</sup> at 0 °C [32 °F]) and 90 % rh (75 g/m<sup>3</sup> at 50 °C [120 °F]).

## 6. Interferences and Cross Sensitivities

- No interference from:
  - hydrogen, methane, ethane, propane, butanes, carbon monoxide, carbon dioxide.
  - higher saturated hydrocarbons (e. g. hexanes, octanes), olefinic hydrocarbons (e. g. ethylene) aromatic hydrocarbons (e. g. benzene) up to 1 vol.% (n=10).
  - sulfur dioxide, carbon disulfide up to 1000 ppm (n=10).
- Phosphine, arsine will be indicated. The sensitivity of indication is different.
- Acetylene is not indicated. Hydrogen sulfide in acetylene will be indicated with a stain double as long as in air.

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