

# Information Data Sheet

**Detector Tube**      **H<sub>2</sub>S-1**  
**Part No. (US):**      **487339**  
**Part No.**              **D5085826**

## 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> IIH, 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

10 ppm ... 200 ppm hydrogen sulfide at n=1 (1 stroke)

1 ppm ... 20 ppm hydrogen sulfide at n=10 (10 stroke)

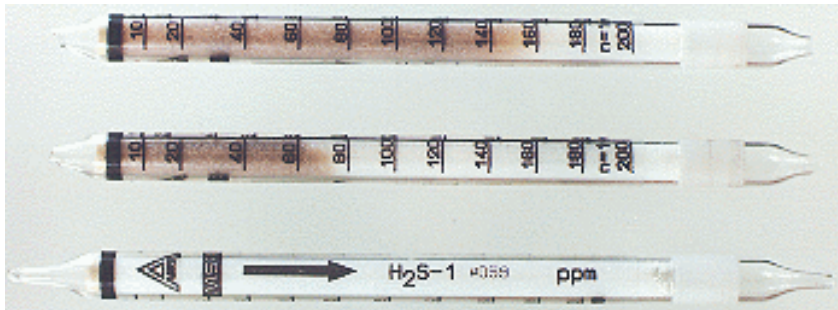
Any number of strokes from 1 to 10 can be chosen. For calculation use n=10 scale, relate as follows:

$$\text{ppm H}_2\text{S} = \frac{10}{\text{no. of strokes chosen}} \times \text{indication on n=10 scale}$$

## 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

a) 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 up to 3000 ppm (n=10).
- Acetylene up to 1 vol.% (n=10).

*Manufactured By:*  
**Uniphos Envirotronic Pvt. Ltd**  
P.O. Nahuli - 396 108  
Tal. Umbergaon,  
Dist: Valsad, Gujarat, India  
Tel. : +91(260) 2730156 / 57 / 58  
Fax : +91(260) 2730160  
[gasdetection@uniphos.com](mailto:gasdetection@uniphos.com)

*Marketing Office:*  
**Uniphos Envirotronic Pvt. Ltd**  
Readymoney Terrace, 167,  
Dr. Annie Besant Road, Worli,  
Mumbai 400 018, India.  
Tel. : +91(22) 6123 3500  
Fax : +91(22) 2493 8826/+91 (22) 2497 8119  
[www.kwikdrawtubes.com](http://www.kwikdrawtubes.com)