

Information Data Sheet

Detector Tube **H₂S-1**

Part No. (US): **487339**

Part No. **D5085826**

1. Application

Detection of hydrogen sulfide (H₂S) in air or in technical gases.

2. Detector Tube Sampling Pump

KWIK DRAW (formerly MSA AUER) Gas-Tester® IIH, Gas-Tester® I / ThumbPump™-Sampler, Toximeter® II, Uniphos Kwik-Draw™-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)

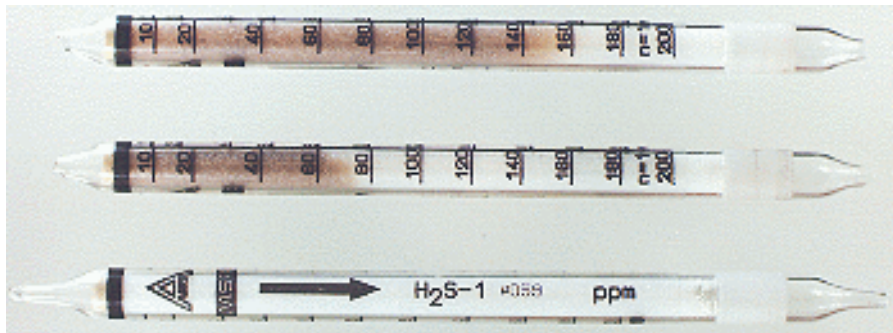
Any number of strokes from 1 to 10 can be chosen. For calculation use n=10 scale, relate as follows:

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

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/m³ at 0 °C [32 °F]) and 90 % rh (75 g/m³ 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 disulphide 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 (100% EOU)

P.O. Nahuli - 396 108

Tal. Umbergaon,

Dist: Valsad, Gujarat, India

Tel. : +91(260) 2730156 / 57 / 58

Fax : +91(260) 2730160

gasdetection@uniphos-envirotronic.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