

Detector Tube

Hydrogen Sulphide-2

Part No.: D7086873



Instructions for Use

1 Application

Detection of hydrogen sulphide in air or in technical gases.

2 Detector Tube Sampling Pump

KWIKDRAW Pump, Gas-Tester IIH, Gas-Tester I. Observe respective instructions for use.

3 Measuring Range

20 ppm to 600 ppm hydrogen sulphide at n=1 (1 stroke).

2 ppm to 60 ppm hydrogen sulphide at n=10 (10 strokes).

4 Chemical Reaction and Color Change

Reaction of hydrogen sulfide with lead compound forming lead sulfide.

Color change: White → brown

5 Sampling Procedure

- Check detector tube pump for leakage.
- Break off both the tips of the tubes.
- Insert tube tightly into pump. Arrow on tube must point toward pump.
- Perform 1/10 strokes.
- Read concentration at end of color zone within 2 minutes after sampling.
- Used detector tubes can not be used repeatedly.
- Duration of one pump stroke: 20....30 seconds.

6 Ambient Conditions During Sampling

- Detector tubes can be used without compensation of the reading between 0 °C and 40 °C (32 °F and 104 °F) and up to 80% RH (40 g/m³ at 40 °C [104 °F])
- Pressure compensation:
Multiply reading (in ppm) with compensation factor F.

$$F = \frac{1013 \text{ (mbar)}}{\text{actual atm. pressure (mbar)}} = \frac{760 \text{ (mm Hg)}}{\text{actual atm. pressure (mm Hg)}}$$

7 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)
- sulphur dioxide, carbon disulphide up to 1000 ppm (n=10)
- phosphine up to 3000 ppm (n=10)
- acetylene up to 1 vol% (n=10)

8 Overall Uncertainty

Up to ±15 to 25 % (expressed as relative standard deviation)

9 Storage and Transport

Up to 25°C (77°F) and protected from light.

Expiration date: see back of package.

10 Safety Advice / Disposal

Tubes must be kept away from unauthorized persons. For disposal of tubes as waste, observe the legal regulations applicable in the individual country of use.