

Technical Data Sheet: TDS 4

DIF 200 RTU - HYDROGEN SULPHIDE (H₂S)

This tube is designed for passively monitoring gaseous airborne hydrogen sulphide.



Description: Black acrylic tube fitted with black thermoplastic rubber caps. One cap is fitted with a one-micron porosity filter to prevent particulate ingress, the other cap contains the absorbent.

Hydrogen sulphide is chemically adsorbed and transformed into a stable compound, which is then quantitatively determined by UV/ Visible Spectrophotometry with reference to a calibration curve derived from the analysis of standard sulphide solutions. (Analysis carried out in accredited laboratories, in accordance with ISO 17025).

Suitable for carrying out spatial or localized assessments for H₂S in ambient air or workplace monitoring.

Tube Dimensions: 71.0mm length x 11.0mm internal diameter.

Recommended Exposure Periods: 2 –4 weeks.

Uptake Rate: $89.6 \times 10^{-6} \text{ m}^3 \text{ hr}^{-1}$.

Air Velocity: No influence when filter fitted.

Storage: Store in a dark, cool environment preferably between 5-10 degrees centigrade.

Shelf Life: 4-weeks from preparation date.

Limit of Detection: 0.16ppb (0.23ugm³) over a 2-week exposure period.

Analytical Expanded Measurement Uncertainty: +/- 9.1 %.

Special Factors: Ozone may reduce the recovery of H₂S. Some reducing agents such as SO₂ may inhibit colour development.