

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 by zinc acetate and transformed into stable zinc sulphide which is then quantitatively determined by Visible Spectrophotometry with reference to a calibration curve derived from the analysis of standard sulphide solutions.

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

Absorbent : Zinc Acetate

Recommended Exposure Periods : 2 –4 weeks

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

Analytical Expanded Measurement Uncertainty : +/- 10.24%
L.O.D. : 0.16ppb (0.23µg^m³) over a 2 week exposure period

Relevant Standards : BS EN 13528 Parts 1-3 : 2002/3 BS EN 838 :1996

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