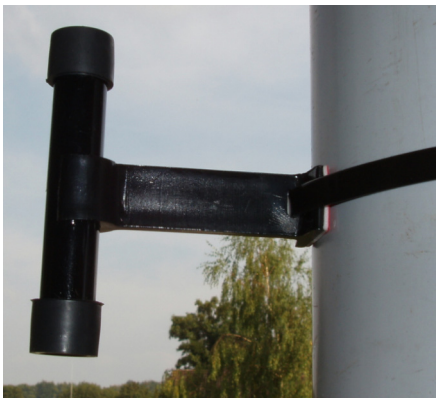
Technical Data Sheet: TDS 4

DIF 200 RTU - HYDROGEN SULPHIDE (H_2S)

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 (U.K.A.S. Accredited Methods).

Suitable for carrying out spatial or localized assessments for H_2S 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 x 10^{-6} m^3 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 (0.23ugm^3) over a 2-week exposure period.

Analytical Expanded Measurement Uncertainty: +/- 9.1 %.

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

Special Factors: Ozone may reduce the recovery of H_2S. Some reducing agents such as SO_2 may inhibit colour development.

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