

## Technical Data Sheet: TDS 4

### DIF 200 RTU - HYDROGEN SULPHIDE (H<sub>2</sub>S)

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 (UKAS Accredited Methods).

Suitable for carrying out spatial or localized assessments for H<sub>2</sub>S in ambient air or workplace monitoring.

Clips and straps are not included and must be ordered separately.

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

**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:** 6-weeks from preparation date.

**Limit of detection:** Less than 0.1  $\mu\text{g m}^{-3}$  over a 4-week exposure period. Specific values available upon request.

**Analytical Expanded Measurement Uncertainty:** available upon request.

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

**Special Factors:** Ozone may reduce the recovery of H<sub>2</sub>S. Some reducing agents such as SO<sub>2</sub> may inhibit colour development.