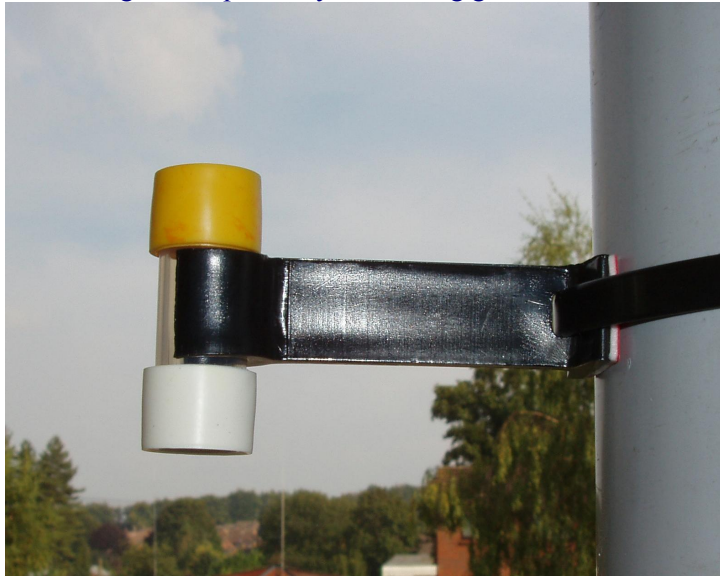


Technical Data Sheet : TDS 7

DIF 400 RTU – AMMONIA

This tube is designed for passively monitoring gaseous molecules of Ammonium



Description : Fluorinated Ethylene Polymer Tube fitted with yellow and white thermoplastic rubber caps. The coloured cap contains the absorbent . A one micron porosity filter is fitted to the white cap to prevent the ingress of airborne particulates containing ammonium .The concentrations of ammonium ions chemically adsorbed are quantitatively determined by Ion Chromatography with reference to a calibration curve derived from the analysis of standard ammonium solutions.

Suitable for carrying out spatial or localized assessments for Ammonia in ambient air , workplace , industrial or rural monitoring. Tube Dimensions : 35.5mm length x 11.0mm internal diameter

Recommended Exposure Periods : 1 –4 weeks

Uptake Rate : $1.52 \times 10^{-4} \text{ m}^3 \text{ hr}^{-1}$

Air Velocity : Tube fitted with filter therefore negligible influence

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

Shelf Life : 8 weeks from preparation date

Desorption Efficiency : $d = 0.99$ (determined using N.I.S.T. Standard Analytes)

Analytical Expanded Measurement Uncertainty : +/- 6. 8%

L.O.D. : 1.34 ppb (0.95 $\mu\text{g m}^3$) over a 2 week exposure period

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

Special Factors : Potential interference from aerosol particles containing high levels of ammonium i.e fertilisers

For further Technical and /or Application Information please contact

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