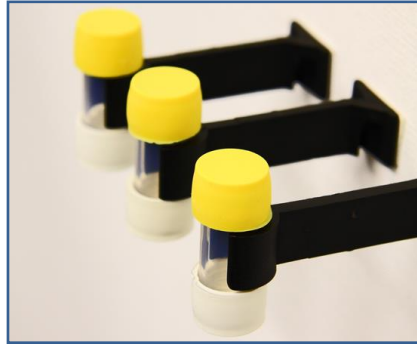


## Technical Data Sheet: TDS 7

### DIF 400 RTU – AMMONIA

This tube is designed for passively monitoring gaseous molecules of ammonia.



**Description:** Fluorinated ethylene polymer tube fitted with yellow and white thermoplastic rubber caps. The yellow cap contains the absorbent. A one-micron porosity filter is fitted to the white cap to prevent the ingress of airborne particulates containing ammonium ions.

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 (UKAS Accredited Methods).

Suitable for carrying out spatial or localised assessments for Ammonia in ambient air, workplace, industrial or rural monitoring.

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

**Tube Dimensions:** 35.5mm length x 11.0mm internal diameter.

**Recommended Exposure Periods:** 2 –4 weeks.

**Air Velocity:** Tube fitted with filter therefore negligible influence.

**Storage:** Store in a dark, cool environment preferably between 5-10°C.

**Shelf Life:** 8 weeks from preparation date.

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

**Limit of detection:** Two weeks –  $1.6 \text{ ug m}^{-3}$ . Four weeks  $0.8 \text{ ug m}^{-3}$

**Overall Measurement Uncertainty:**  $\pm 9.6\%$  (correct as of February 2023)

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

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