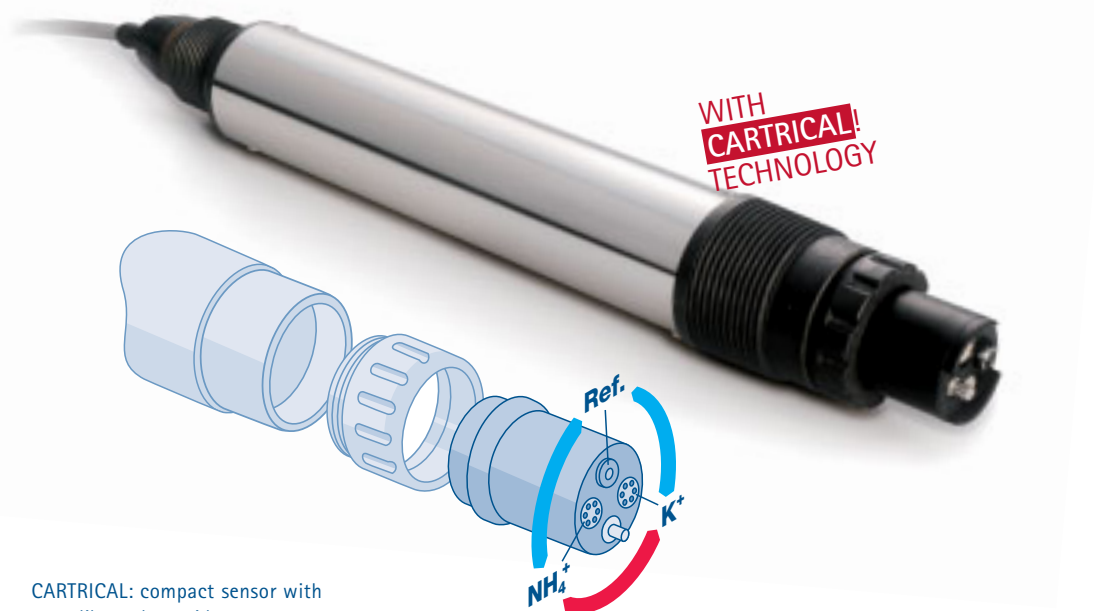


PRODUCT INFORMATION
PROCESS ANALYSIS
ION-SELECTIVE ELECTRODE
NH4D SC



CARTRICAL: compact sensor with precalibrated cartridge

Cost effective: NH4D sc ISE probe for ammonium measurements

- **Calibration-free with CARTRICAL technology**
- **Accurate readings with automatic potassium compensation**
- **Exceptionally drift free thanks to pH reference element**
- **Minimum maintenance**
- **Low investment and operating costs**

ISE probe: calibration-free with CARTRICAL technology

There are lots of ion-selective electrodes, but only NH4D sc from HACH LANGE has CARTRICAL. The combined sensors are all integrated and optimised in the precalibrated cartridge. CARTRICAL is better value than individual electrodes and is designed for error free operation. Changing the cartridge is simple, just remove the old one, plug in a new one and enter the code – ready for use!

Cost effective solution for waste water measurements

Ammonium is an important parameter in waste water treatment. NH4D sc continually measures directly in the process using the ion-selective electrode. No sample preparation is needed and interference by potassium is automatically compensated for. The readings are especially stable thanks to the integrated pH reference technology. The low purchase price makes NH4D sc the perfect choice, even for small plants.



LANGE 

Reliable readings with the latest technology

Reliable, stable and calibration-free sensor

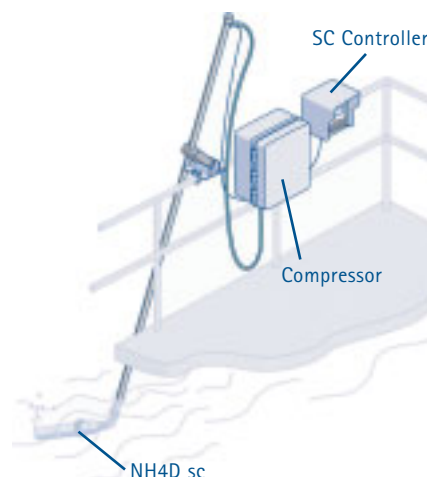
CARTRICAL is a compact sensor cartridge with three electrodes, which are perfectly calibrated to each other. Cross sensitivities between ammonium and potassium are automatically eliminated. Solids do not interfere with the measurement. NH4D sc is calibration-free. A matrix correction can be carried out quickly and easily at any time.

The ISE probe is controlled by an SC Controller. Depending on the model, up to eight different sensors can be connected to one controller.

Simple operation

A compressed-air cleaning head is also available for NH4D sc. Each sensor is individually cleaned. The streamlined body of the cleaning head remains practically free of debris due to its smooth surface and the internal tube guides.

HACH LANGE offers a compact compressor module to go with the compressed air cleaning head. The weatherproof plastic housing is suitable for tank-side installation without any additional structural requirement.



NH4D sc as complete system with SC Controller, compressed-air cleaning head and (optional) compressor

Technical data

Measurement method	Ion-selective electrode for ammonium and potassium, pH reference
Measuring range	0.2-1000 mg/l NH ₄ -N 1-1000 mg/l K ⁺
Accuracy	5% of reading ±0.2 mg/l (with standard solutions)
Response time	< 2 min.
Calibration (optional)	Sensor code (calibrated sensor head) 1- or 2-point inline matrix correction
Temperature	Air -20 to +45 °C Water +1 to +40 °C
pH	5-9
Flow	< 4 m/s
Immersion depth	0.3-3.0 m
Material	Stainless steel, PVDF (Ryton®)
Dimensions	350 x 44 mm (L x ID) without compressed-air cleaning
Weight	Approx. 1 kg
Subject to change.	

Ordering information

NAME	ART.-NO.
NH4D sc* probe Incl. CARTRICAL sensor cartridge	LXV437.99.00001
Sensor cartridge with CARTRICAL technology, calibrated, typical lifetime 12 months; fast and easy to change	6188400
Compressed-air cleaning head	LZY331
SC 100 Controller for up to 2 sensors; parameters freely combinable	LXV401
SC 1000 Controller for up to eight sensors; extremely versatile, e.g. as SC 1000 network or with wireless communication	LXV400 + LXV402
Compressor, in housing Pressure 2.75 bar, dimensions 432 x 395 x 215 mm (H x W x D), weight 11.2 kg	
Power requirement 230 V	6174203
Power requirement 115 V	6174103
* Corresponds to AMMON eco sc in the HACH LANGE 2006/2007 Catalogue.	

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