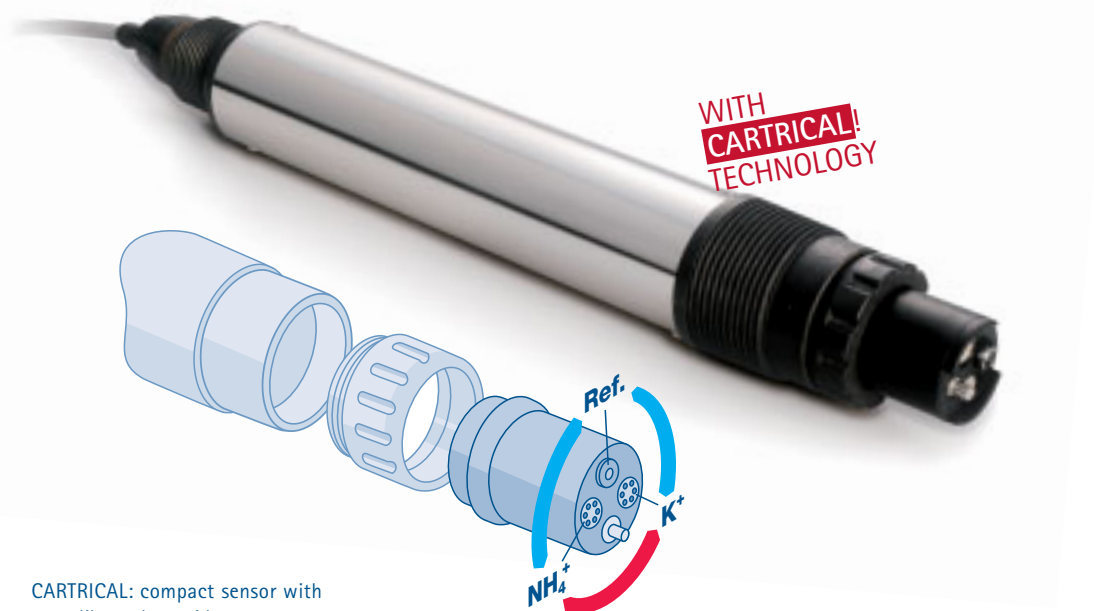


**PRODUCT INFORMATION**  
PROCESS ANALYSIS  
ION-SELECTIVE ELECTRODE  
NH4D SC



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

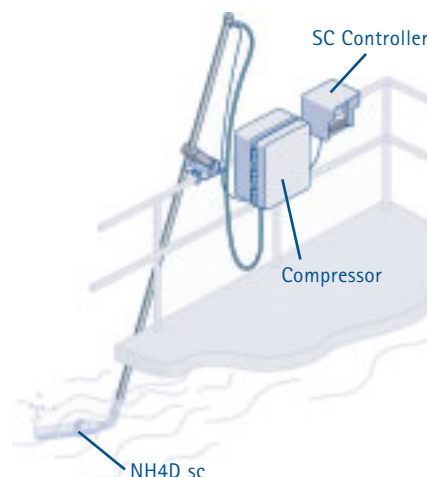
CARTRICAL is a compact sensor cartridge with three electrodes, which are perfectly calibrated to each other. Cross sensitivities between ammonium and potassium are automatically eliminated. Solids do not interfere with the measurement. NH4D sc is calibration-free. A matrix correction can be carried out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

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

### Ordering information

NAME	ART.-NO.
<b>NH4D sc* probe</b> Incl. CARTRICAL sensor cartridge	LXV437.99.00001
<b>Sensor cartridge</b> with CARTRICAL technology, calibrated, typical lifetime 12 months; fast and easy to change	6188400
<b>Compressed-air cleaning head</b>	LZY331
<b>SC 100 Controller</b> for up to 2 sensors; parameters freely combinable	LXV401
<b>SC 1000 Controller</b> for up to eight sensors; extremely versatile, e.g. as SC 1000 network or with wireless communication	LXV400 + LXV402
<b>Compressor, in housing</b> 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.	

HACH LANGE GMBH  
Willstätterstraße 11  
D-40549 Düsseldorf  
Tel. +49 (0)2 11 52 88-0  
Fax +49 (0)2 11 52 88-143  
info@hach-lange.de  
www.hach-lange.com

HACH LANGE LTD  
Pacific Way  
Salford  
GB-Manchester, M50 1DL  
Tel. +44 (0)161 872 1487  
Fax +44 (0)161 848 73 24  
info@hach-lange.co.uk  
www.hach-lange.co.uk

HACH LANGE LTD  
Unit 1, Chestnut Road  
Western Industrial Estate  
IRL-Dublin 12  
Tel. +353(0)1 460 25 22  
Fax +353(0)1 450 93 37  
info@hach-lange.ie  
www.hach-lange.ie

**Hyxo Oy**  
P.O. Box 16 (Palokorvenkatu 2)  
FI-04261 Kerava, Finland  
Tel. +358 10 417 4500  
Fax +358 10 417 4501  
hyxo@hyxo.fi • www.hyxo.com

