



## A-ISE sc Low cost ISE Ammonium probe (immersion) without RFID, 10 m cable

**Product #:** LXV440.99.10011

**AED Price:** Contact Hach

Carries out continuously direct measurements using an ion-selective electrode. No need for reagents or sample preparation. Compensated interference by potassium. Integrated pH reference element.

The Cartrical plus technology makes installation and cartridge replacement very easy. The code of the factory-calibrated sensor is automatically transferred to the system. This provides reliable measured values and considerably reduced maintenance time and costs in comparison with conventional ISE probes. The cartridge has a long lifetime in the application due to protected membranes.

The sensor is fully compatible with all digital SC controllers. Link2sc technology allows comparing measurement values from process and laboratory. An easy-to-hand cleaning unit is available.

Prognosys is a predictive diagnostic system that allows you to be proactive in your maintenance, by alerting you to upcoming instrument issues. Know with confidence whether changes in your measurements are due to changes in your instrument or your water.

This instrument connects to Claros, Hach's innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiency in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

**Now with more robust design of sensor and cartridge**

**Easy handling with CARTRICAL plus**

**Simple and intuitive operation**

**Always under control**

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### Specifications

Accuracy:	5% of measured value + 0.2 mg/L (with standard solutions) $\text{NH}_4\text{-N}$
Cable length:	10 m fixed cable at sensor, extendable to 100m
Calibration method:	Sensorcode (calibrated sensor cartridge) or 2-point in-line value and matrix correction
Controller compatibility:	SC200, SC1000, SC4500. All controllers sold separately
Data types:	Current output, relays and bus communication via SC controller
Detection limit:	0.2 mg/L $\text{NH}_4\text{-N}$
Flow:	< 4 m/s max.
Immersion depth:	0.3 - 3 m
Includes:	Ammonium probe, sensor cartridge, user manual
Installation:	45 ° ± 15 ° (vertical in flow direction)
Length:	320 mm
Material:	Cartridge: Stainless steel (1.4571), PVC, POM, ABS, NBR

Measurement method:	Potentiometric ion-selective measurement
Measuring interval:	Continuous
Measuring range:	0 - 1000 mg/L NH <sub>4</sub> -N
Measuring uncertainty:	±5% of the measured value + 0.2 mg/L (with standard solution) NH <sub>4</sub> -N
Operating temperature range:	Air: -20 - 45 °C (-4 - 113 °F)
Parameter:	NH <sub>4</sub> -N
pH Range:	5 - 9 pH
Process connection:	1 inch thread
Protection class:	IP 68
Repeatability:	±5 % of the measured value (with standard solution) NH <sub>4</sub> -N
Response time:	< 3 min
Sample pressure:	0.3 bar max.
Sample temperature:	2 - 40 °C
Sensor cartridge:	With Cartrical plus technology: compact housing containing calibrated electrodes for ammonium, potassium, reference system and temperature sensor, all calibrated to each other; typical lifetime 12 months
Storage conditions:	5 - 40 °C Sensor cartridge;  -20 - 60 °C Sensor
Warranty:	24 months
Weight:	2.4 kg
Wetted Materials:	Probe: stainless steel 1.4571; ASA + PC, silicon; PVC and PU;  Sensor cartridge: PVC; POM; ABS; stainless steel 1.4571; NBR;
What's included?:	Ammonium probe, sensor cartridge, user manual

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## Required Accessories

- SC1000 Probe Module, 4 Sensor Connectors, 4 mA Output, 4 Relays, 100-240 VAC, with EU plug (Item LXV400.99.2R121)
- SC1000 Display Module (Item LXV402.99.00001)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, EU plug (Item LXV525.99C11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)