



## A-ISE sc Low cost ISE Ammonium probe (immersion) with RFID, 10 m cable

**Product #:** LXV440.99.10001

**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.

### Cost-effective trending information

The A-ISE sc sensor utilises ion selective electrode (ISE) technology to provide your plant with high level trending information while saving money by eliminating the need for reagents and sample preparation.

### Minimal maintenance with simple cartridge replacement

The sensor operates within in a Cartrical cartridge that comes factory calibrated so little maintenance is necessary. Cartridge replacement is simple: unscrew the old cartridge, plug in the new one, and the sensor is ready for measurement. Using RFID\* technology, the factory calibration is automatically identified after replacing the cartridge.

\*RFID technology available in all EU countries plus e.g. Norway, Switzerland, Serbia, Macedonia, Turkey et al. For other countries please ask your local Hach contact person.

### Simple, accurate calibration

Easy to perform, fail-safe calibration corrections compensate for naturally occurring calibration drift in ISE instruments. An advanced menu structure allows you to perform corrections without manual entry of values via Ethernet, SD card or Bluetooth.

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## Specifications

Accuracy:	5% of measured value + 0.2 mg/L (with standard solutions) NH <sub>4</sub> -N
Cable length:	10 m fixed cable at sensor, extendable to 100m
Calibration method:	With Cartrical plus technology: automatic import of factory calibration data from cartridge to probe by RFID*; 1 and 2 point 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 NH <sub>4</sub> -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
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
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
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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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)