



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

**Product #:** LXV440.99.10012  
**ZAR Price:** Contact Hach  
**Ships within 3-5 weeks**

**Single ISE probe for the online measurement of Ammonium provides trending information and minimal maintenance, at an affordable price.**

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 utilizes 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.

### 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 100 m
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 Transfer:	Current output, relays and bus communication via SC controller
Flow:	< 4 m/s max.

Includes:	Ammonium probe, sensor cartridge, user manual
Installation Angle:	45 ° ± 15 ° (vertical in flow direction)
Length:	320 mm
Lower Limit of Detection (LOD):	0.2 mg/L NH <sub>4</sub> -N
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:	IP68
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 (35.6 - 104 °F)
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
Sensor Immersion Depth:	0.3 - 3 m (1.0 - 10 ft)
Storage conditions:	5 - 40 °C sensor cartridge, -20 - 60 °C sensor
Warranty:	12 months
Weight:	2.38 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 Display Module, Multi-Parameter Universal Controller (Item LXV402.99.00002)
- SC1000 Probe Module, 6 Sensor Connectors, Prognosys, Modbus 485, 100-240 VAC with Conduits (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 Sensor Connectors, Prognosys, 100-240 VAC with Conduits (Item LXV400.99.1G092)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond Ext MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 Sensor Connectors, 8Ma Out, 110V/Cond 4 Relay/C Ext MOD (Item LXV446.99.1R3S1)
- SC4500 Controller, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A01551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- 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)