



Be Right™



## A-ISE sc Low cost ISE Ammonium probe with RFID technology

Product #: LXV440.99.10002

ZAR Price: Contact Hach

### Single ISE probe for the on-line measurement of ammonium provides trending information with minimal maintenance at an affordable price.

The special feature of the probe is the Cartrical technology. This provides reliable measured values and considerably reduced maintenance time and costs in comparison with conventional ISE probes.

Comes as a complete system from a single supplier. The probe is installed on the side of the tank. An SC controller completes the system. It can be extended to include an automatic cleaning unit with a compressor.

Prognosys is now available to provide confidence in your instrument readings. Prognosys will monitor and display the reliability of instrument measurement values and identify when upcoming maintenance tasks are due in an easy-to-read color display.

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 AISE 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. Using RFID\* technology, the factory calibration is automatically identified after replacing the cartridge.

#### 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. \*RFID version available only in US, EU, Canada, Australia, New Zealand, Croatia, Cyprus and Turkey.

---

## 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:	With Cartrical plus technology: automatic import of factory calibration data from cartridge to probe by RFID*; 1 and 2 point matrix correction
Controller Compatibility:	SC 200, SC 1000
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
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 in the box?

Ammonium probe, sensor cartridge, user manual

## Required Accessories

- SC1000 Multi-parameter Universal Controller Display Module (without GSM/GPRS) (Item LXV402.99.00002)
- SC1000 Probe Module, 6 sensors, Prognosys Module, Modbus RS485, 100-240V AC, no power cord (Item LXV400.99.1H082)
- SC1000 Probe Module, 8 sensors, Prognosys Module, 100-240V AC, no power cord (Item LXV400.99.1G092)
- SC1500 Controller, 6 SENS 8mA OUT 110V/COND EXT MOD (Item LXV446.99.103N1)
- SC1500 Controller, 6 SENS 8mA OUT 110V/COND 4 REL/C EXT MOD (Item LXV446.99.1R3S1)
- SC4200c Controller, North American Cellular Modem, Profibus, 2 digital Sensors, w/o plug (Item LXV524.99.01720)
- SC4200c Controller, North American Cellular Modem, mA out, 2 digital Sensors, w/o plug (Item LXV524.99.01120)