



Nitratax plus sc Sensor, 1 mm path length with automatic cleaning

Product #:

LXV417.99.10002

OBSOLETE ITEM

This item is no longer available.

Suggested replacements:

- LXV448.99.11001

Using the Nitratax eliminates reagents, sampling, and sample conditioning. The UV absorption method is proven, continuous, and precise. The probe is self-cleaning. Life-long factory calibration and full-featured "Plug & Play" with SC Controllers; Nitratax must be connected to an SC controller to form a complete system.

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.

As of 30. April 2023, Nitratax plus sc and Nitratax eco sc will be discontinued. Discover the new generation of UV nitrate and nitrite sensors by searching for NT3 Series.

UV Analysis Eliminates Reagents, Sampling, and Sample Conditioning

Using advanced ultraviolet (UV) absorption technology, Hach Nitratax sc UV Nitrate Sensors offer unprecedented simplicity, accuracy, and economy in nitrate analysis. By continuously measuring the UV light absorbed by nitrates, Nitratax sc sensors eliminate the need for reagents, sample conditioning, and frequent calibrations.

Optional Bypass Panel

An optional Bypass Panel or flow-through sample cell is available for clean water applications when direct immersion in Optional Bypass Panel a sample stream is impractical. The Bypass Panel uses the same probes as the immersion sensors for greater flexibility.

Choice of Three Models

Nitratax plus sc Process sensor for continuous measurement in drinking water, wastewater, or activated sludge. Turbidity compensation using reference measurement. Nitratax eco sc low cost sensor for measurement, especially for sewage treatment plants with intermittent aeration technology. Turbidity compensation using reference measurement. Nitratax clear sc Process sensor for continuous measurement in clean water such as drinking water or wastewater effluent.

Self-Cleaning Sensor

With the sensor submerged in the sample stream, the detector windows are automatically cleaned by a built-in wiper that eliminate surface films or particles that can diminish accuracy.

Specifications

Accuracy: $\pm 3 \%$ of measured value + 0.5 mg/L (with standard solution)

Ambient Temperature: 2 - 40 °C (36 - 104 °F)

Application:	Wastewater - All Applications
Cable Length:	10 m (32.8 ft.) fixed cable, made of PUR, extendable to 100 m using digital extension cables
Controller:	Sensor only
Controller Compatibility:	SC200, SC1000, SC4500. All controllers sold separately
Diameter:	70 mm
Includes:	Nitrate probe, standard solution, user manual
Length:	333 mm
Lower Limit of Detection (LOD):	0.1 mg/L $\text{NO}_{2+3}\text{-N}$ (with standard solutions)
Maintenance Requirements:	1 hour/month typical
Measuring Interval:	<gte/> 15 s to 30 min (fixed values selectable)
Measuring Principle:	UV absorption measurement
Measuring range:	0.1 - 100 mg/L $\text{NO}_{2+3}\text{-N}$
	0 - 400 mg/L NO_3
Model:	Nitratax plus sc
Operating Pressure:	0.5 bar (7.2 psi), maximum
Operating temperature range:	2 - 40 °C
Path Length:	1 mm
Power Consumption:	2 VA
Pressure Range:	≤ 0.5 bar
Range:	0.1 - 100 mg/L $\text{NO}_{2+3}\text{-N}$
Resolution:	0.1 mg/L
Response time:	≥ 1 min
Sample Flow Rate:	0.5 - 10 L/h sample
Service Interval:	6 months or as experience dictates
Sludge Compensation:	Yes
Verification:	Using standard solutions
Warranty:	12 months
Weight:	3.6 kg
What's included?:	Nitrate probe, standard solution, user manual

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Nitrate probe, standard solution, user manual

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, 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, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)