



## Nitratax plus sc Precise, self-cleaning UV nitrate process probe, 1 mm

Product #:

LXV417.99.10001

**OBSELETE ITEM**

This item is no longer available.

### UV analysis-the reagent-free alternative: NITRATAX plus sc

Reagent-free method. Multiple beam absorption photometer with a flash lamp, turbidity compensation through reference measurement. Lowered directly into the sample stream (flow-through unit optional).

Stainless steel probe. UV beams are projected across a gap for immediate measurement of the nitrate content in water, wastewater and activated sludge. The measuring windows are cleaned by a wiper. Evaluation by SC controller. The simple mounting and easy handling of the probe is guaranteed by a specially designed tank rim mounting hardware. In order to place the controller near the probe, the tank rim mounting hardware for sc controller should be used. The through-flow variant is used wherever submersible installation is not possible for construction related reasons or the medium makes it necessary to measure a filtered sample (very high TS contents, sewage treatment plant inlet, etc.).

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 absorption method-proven, continuous, and precise**

**Eliminates reagents, sampling, and sample conditioning**

**Self-cleaning probe**

**Measurement in activated sludge or in water**

**Life-long factory calibration**

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### Specifications

Accuracy:	± 3 % of measured value + 0.5 mg/L (with standard solution)
Ambient temperature:	2 - 40 °C
Application:	Aeration basin
Cable length:	10 m fixed cable, made of PUR, extendable to 100 m using digital extension cables
Controller:	Sensor only
Controller compatibility:	SC200, SC1000

Detection limit:	0.1 mg/L $\text{NO}_{2+3}\text{-N}$ (with standard solutions)
Diameter:	70 mm
Flow rate:	0.5 - 10 L/h sample
Length:	333 mm
Maintenance requirements:	1 hour/month typical
Material:	Sensor enclosure: stainless steel 316, 1.4571, single sealed body
	Wiper axle: stainless steel 1.4104
	Cable gland: stainless steel 1.4305
	Cable gland seal: PVDF
	Profile carrier: stainless steel 1.4310
	Wiper arm: stainless steel 1.4581
	Wiper profile: Silicone
	Measuring window: Suprasil (quartz glass)
Measuring interval:	$\geq 15$ 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 $\text{NO}_3$
Model:	Nitratax plus sc
Operatin conditions:	0.5 bar, maximum
Operating temperature range:	2 - 40 °C
Path Length:	1 mm
Power consumption:	2 VA
Pressure range:	$\leq 0.5$ bar
Resolution:	0.1 mg/L
Response time:	$\geq 1$ min
Service interval:	6 months or as experience dictates
Sludge Compensation:	Yes
Verification:	Using standard solutions
Warranty:	24 months
Weight:	3.6 kg
What's included?:	Nitrate probe, standard solution, user manual

## What's included?

Nitrate probe, standard solution, user manual

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