



Nitratax eco sc Affordable, self-cleaning UV Nitrate process probe, 1 mm

Product #:

LXV415.99.10001

OBSOLETE ITEM

This item is no longer available.

Suggested replacements:

- LXV448.99.21001

Continuous Nitrate measurement: NITRATAX eco sc

Developed for the control of intermittend sewage treatment plants. Based on the unique UV absorption technique, with low cross sensitivities. Turbidity compensation through reference measurement.

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 save fixing by easy handling of the probe is guaranteed by a specially conceived tank rim fixing for fixing the probe to a tank or channel. In order to fix the display unit close to the probe, the tank rim fixing for display units should be used. The flow-through variant is used wherever direct measurement in the medium is not possible for construction related reasons or the medium load makes it necessary to measure a filtered sample (very high TS contents, sewage treatment plant inlet, etc.).

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 system using built-in wiper

Life-long factory calibration

Integrated control and regulation function

Specifications

Accuracy:	± 5 % of measured value + 1 mg/L (with standard solutions)
Ambient temperature:	2 - 40 °C
Application:	Aeration basin
Cable length:	10 m fixed cable at sensor
Controller:	Sensor only
Controller compatibility:	SC200, SC1000
Detection limit:	1 mg/L NO ₂₊₃ -N
Diameter:	75 mm
Length:	323 mm

Maintenance requirements:	2 h/month
Material:	Sensor enclosure: stainless steel 316, 1.4571, single sealed body
	Wiper axle: stainless steel 1.4571
	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:	≥ 5 to 30 min (fixed values selectable)
Measuring principle:	UV absorption measurement
Measuring range:	1 - 20 mg/L NO ₂₊₃ -N
	5 - 100 mg/L NO ₃
Model:	Nitratax eco sc
Operatin conditions:	0.5 bar, maximum
Operating temperature range:	2 - 40 °C
Path Length:	1 mm
Power consumption:	2 VA
Pressure range:	≤ 0.5 bar
Resolution:	0.5 mg/L
Response time:	≥ 15 min
Service interval:	6 months or as experience dictates
Sludge Compensation:	Yes
Verification:	Using standard solutions
Warranty:	24 months
Weight:	3.3 kg
What's included?:	Nitrate probe, standard solution, user manual

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Nitrate probe, standard solution, user manual

Required Accessories

- 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)