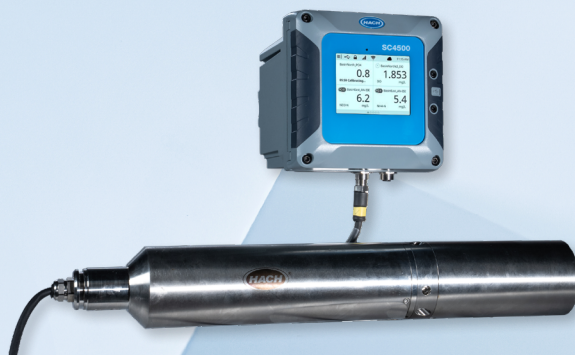




NT3100sc Nitrate Sensor

Proven nitrate measurements
made more accessible



NT3100sc vs. Lab Analysis

Common Hach Lab Analysis Methods for Nitrate

DR Unit with
TNT 835/836/838



HQ Unit with
ISE

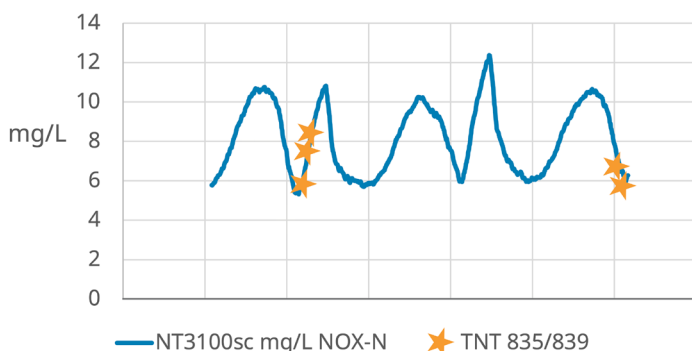


Powder Pillow
Methods



Comparing NT3100sc Online with Lab Grab Sample Results

NT3100sc vs. TNT835/839 Lab



Actual online
and filtered lab
results from
an MLSS WW
installation

A Probe that Fits Any Application

Recommended Pathlength – NT3100sc

Application	Pathlength		
	1mm	2mm	5mm
Wastewater			
Influent	✓	✓	
Nitrification/denitrification	✓	✓	
Nitrification/denitrification, more than 5,000 mg TSS/L sludge	✓		
Effluent		✓	✓
Drinking Water			
Raw drinking water		✓	✓
Finished water/distribution			✓

1mm

LXV448.99.11001 | Range 0.1 - 90 mg/L NO₃-N

2mm


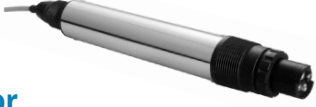
LXV448.99.21001 | Range 0.05 - 50 mg/L NO₃-N

5mm

LXV448.99.51001 | Range 0.02 - 25 mg/L NO₃-N

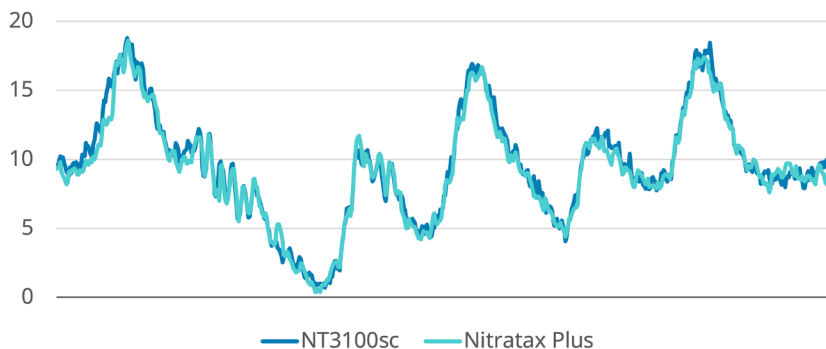
“The NT3100 values are as accurate as a wet-chemistry analyzer.”
– Real Customer, on-site where the data was collected

NT3100sc UV Absorbance vs. Ion Selective Alternatives

 <p>NT3100sc</p>		 <p>ISE Sensor</p>
NT3100sc UV Absorbance for Nitrate	Method	Ion Selective Electrode for Nitrate
Higher initial investment	Purchase Cost	Lower initial investment
No cartridge changes for lower TCO and extended lifespan	Ownership Cost	6-month cartridge changes can lead to higher overall cost of ownership
Integrated self-cleaning wiper system ensures operators spend less cleaning	Cleaning Needs	Manual cleaning required and varied even with air blasting depending on application
Factory calibrated for trusted readings out of the box / User can calibrate to lab	Calibration Requirements	Periodic calibrations required as the electrodes drift from age and cleanliness
0.02-90 mg/L NO ₃ -N	Ranges	1-1000 mg/L NO ₃ -N, consistently below 1 mg/L not recommended

NT3100sc is a Seamless Transition from Nitratax Plus

NT3100sc vs. Nitratax Plus



Actual Online Results from an MLSS WW Installation

Planning for the Future with Hach



Nitratax Plus sc
Initial Launch 2004
2nd Generation Nitrate Sensor



Estimated end of service: 2028

NT3100sc
Launched in 2022
3rd Generation Nitrate Sensor



1mm LXV417.99.10002

2mm LXV417.99.20002

5mm LXV417.99.50002

1mm LXV448.99.11001

2mm LXV448.99.21001

5mm LXV448.99.51001

Service Offerings

Bench Service: BSPNitratax

Field Partnership: FSPNitratax

Bench Service: BSPNT3X00

Field Partnership: FSPNT3X00

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