



Hach's NT3100sc UV Nitrate Sensor

The New Standard of Online Nitrate Measurement

The NT3 Series Sensor from Hach® brings greater accuracy and simplified maintenance for nitrate to your monitoring toolbox. Backed by a legacy of reagent-free UV absorbance technology expertise, Hach's NT3100sc UV Nitrate Sensor is equipped to meet your unique application needs. Whether measuring nitrate in municipal wastewater treatment plants, surface water, untreated water or treated drinking water, you'll have the choice of three different path lengths to fit your measurement ranges and turbidity compensation needs.

The NT3 Series gives you peace of mind with improved accuracy and a lower limit of detection at 0.02 mg/L*. Additionally, Hach's proven wiper technology keeps your system clean and our enhanced one-step, tool-free, wiper replacement reduces maintenance time and improves your experience. These advancements help you optimize your plant performance and ensure regulatory compliance now and into the future.

The NT3 Series Sensors are equipped with Advanced Prognosys®, Hach's predictive diagnostic system that uses internal smart sensors to proactively alert you of potential measurement issues so you have confidence in your process health and avoid unplanned downtime.

At Hach we understand your facilities' problems are unique, and we have developed service plans that can help give you peace of mind about maintaining and supporting your NT3 Series Sensors.

*Based on NT3100sc 5 mm model

Get to know Hach's full portfolio to measure Nitrate with reagent-free UV absorption technology sensors to meet your unique application needs.

Technical Specifications	Nitratax clear sc	NT3100sc
Parameter	Nitrate	Nitrate
Path Length	5 mm	1, 2, and 5 mm
Measuring Range ^{1,2}	5 mm: 0.5 - 20.0 mg/L NO ₃ -N	5 mm: 0.02 - 25 mg/L NO ₃ -N
		2 mm: 0.05 - 50 mg/L NO ₃ -N
		1 mm: 0.10 - 90 mg/L NO ₃ -N
Accuracy ²	5 mm: ± 5% of reading ± 0.5 mg/L NO ₃ -N	1 mm: ± 5% of reading ± 0.1 mg/L NO ₃ -N
Sludge Compensation	-	Yes
Measurement Interval	5 minutes	15, 30 seconds, 1, 5, 10, 30 minutes

¹Not expressed for mixed NO_x concentration. Measured with NO₃-N for Nitratax clear sc and NT3100sc standard solutions.

²Measured in lab conditions.

Applications

NT3100sc: General recommendation. Each application needs to be assessed for NO_x concentrations and turbidity.

Model: NT3100sc UV Nitrate Sensor			
Path length	1 mm	2 mm	5 mm
Wastewater Application			
Influent monitoring	✓	✓	
Process monitoring - Nitrification/Denitrification	✓	✓	
Process monitoring - Nitrification/Denitrification with sludge concentration > 5,000 mgSS/L	✓		
Effluent		✓	✓
Drinking Water Application			
Raw drinking water		✓	✓
Finished water/Distribution			✓

Nitratax clear sc: General recommendation. Each application needs to be assessed for NO_x concentrations and turbidity.

Model: Nitratax clear sc			
Path length	1 mm	2 mm	5 mm
Drinking Water Application			
Raw drinking water			✓
Finished water/Distribution			✓



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DOC063.53.30745.Jan24