



UV analysis—the reagent-free alternative.

- UV absorption method—proven, continuous, and precise
- Eliminates reagents, sampling, and sample conditioning
- Self-cleaning sensor using built-in wiper
- Life-long factory calibration
- Full-featured plug-and-play with sc100 or sc1000 Digital Controllers

UV Analysis—Eliminates Reagents, Sampling, and Sample Conditioning

Using advanced ultraviolet (UV) absorption technology, Hach NITRATAX UV Nitrate Sensors offer unprecedented simplicity, accuracy, and economy in nitrate analysis.

UV Absorption Method—Proven, Continuous, Precise

NITRATAX sensors rely on the principle that molecular bonds can absorb ultraviolet (UV) light—in this case, nitrate (NO_3) and nitrite (NO_2) absorb UV light. As the concentration of nitrate or nitrite increases, UV absorption also increases. A built-in photometer measures the absorbance, while a second beam of UV light provides a reference standard and corrects for interference caused by turbidity and organic matter.

Primary Applications

- Drinking Water
- Industrial Water
- Wastewater
- Environmental



Specifications*

	NITRATAX plus sc	NITRATAX eco sc	NITRATAX clear sc
Measuring Principal	Reagent-free UV absorption with patented 2-beam technique (applies to all)		
Measuring Gap/Path Length	1, 2, and 5 mm	1 mm	5 mm
Measuring Range $\text{NO}_{2+3}\text{-N}$	0.1 to 100.0 mg/L (1 mm) 0.1 to 50.0 mg/L (2 mm) 0.1 to 25.0 mg/L (5 mm)	1.0 to 20.0 mg/L (1 mm)	0.5 to 20.0 mg/L (5 mm)
Detection Limits $\text{NO}_3\text{-N}$	0.1 to 100 mg/L	1.0 to 20 mg/L	0.5 to 20 mg/L
Accuracy	± 3% of the mean ± 0.5	± 5% of the mean ± 1.0	± 5% of the mean ± 0.5
Resolution	0.1 mg/L	0.5 mg/L	0.1 mg/L

*Subject to change without notice.

Prod. No. Description

NITRATAX sc UV NITRATE ANALYZER SYSTEMS

- 6139200** NITRATAX plus sc System includes sensor with 2 mm path length, mounting hardware, and sc100 controller
- 6139500** NITRATAX plus sc System includes sensor with 2 mm path length, flow-through cell, and sc100 controller.
- 6139400** NITRATAX eco sc System includes sensor with 1 mm path length, mounting hardware, and sc100 controller
- 6139300** NITRATAX clear sc System includes sensor with 5 mm path length, mounting hardware, and sc100 controller
- 6139600** NITRATAX clear sc System includes sensor with 5 mm path length, flow through cell, and sc100 controller

INDIVIDUAL NITRATAX sc UV NITRATE SENSORS

All sensors are equipped with 10 m (32.8 ft.) cable.

- LXV417.99.10002** NITRATAX plus sc Sensor 1 mm path length
- LXV417.99.20002** NITRATAX plus sc Sensor 2 mm path length
- LXV417.99.50002** NITRATAX plus sc Sensor 5 mm path length
- LXV420.99.50002** NITRATAX clear sc Sensor 5 mm path length
- LXV415.99.10002** NITRATAX eco sc Sensor 1 mm path length

CONTROLLER

This sensor requires a Hach sc100 or sc1000 Digital Controller. See pages 388-393 for details.

Prod. No. Description

ACCESSORIES

- LZX414.00.10000** Mounting hardware for sensor
- LZX869** Flow-through cell for NITRATAX plus sc-sensors, 2 mm path length
- LZX867** Flow-through cell for NITRATAX plus sc-sensors, 5 mm path length
- LZX866** Flow-through cell for NITRATAX clear sc-sensors, 5 mm path length
- LCW825** Calibration standard 50 mg/L (11.3 mg/L $\text{NO}_3\text{-N}$)
- LZX148** Spare wiper blades for 1 mm Nitratatx, pk/5
- LZX012** Spare wiper blades for 2 mm Nitratatx, pk/5
- LZX117** Spare wiper blades for 5 mm Nitratatx, pk/5

CABLE ACCESSORIES

- 5867000** Junction box for extension cables
- 5796000** Extension cable, 7.6 m (25 ft.)
- 5796100** Extension cable, 15.2 m (50 ft.)
- 5796200** Extension cable, 30.5 m (100 ft.)

For more information, call to request Literature #2464 or visit www.hach.com

See page 173 for reagents, test kits, and accessories for measuring nitrate in the lab or field.