



9600 Nitrate Monitor

Monitor nitrate *in-situ* and unattended!

Introducing the YSI 9600 Nitrate Monitor. Nitrate is the first nutrient available with YSI's new long-term monitoring platform for nutrients. The 9600, with its proven chemistry and long-term stability, will simplify nitrate monitoring in many applications.



The YSI 9600 is 28 inches tall and 13 inches in diameter; the entire instrument must be submerged for accurate readings.

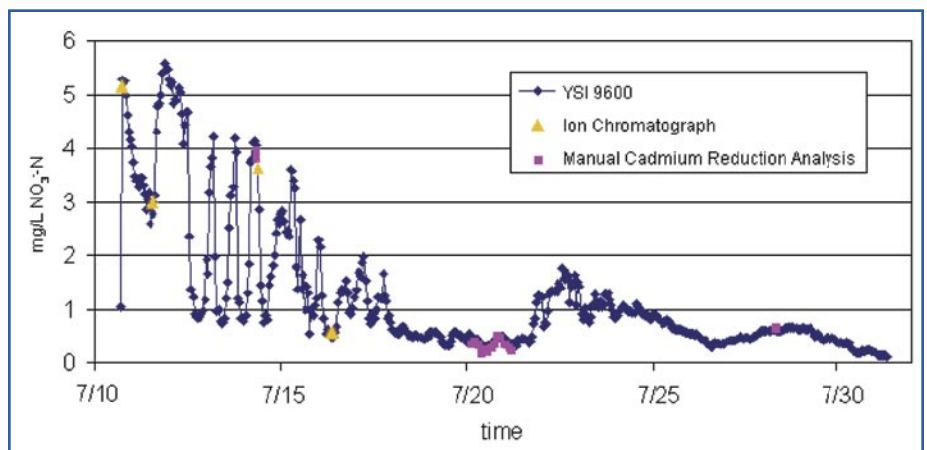
- Provides continuous in-situ nitrate monitoring with minimal waste volumes
- Works on standard cadmium reduction/diazotization principle. Standard Methods #4500-NO₃⁻ E.
- Nitrate monitoring in two ranges: 0-10.0 mg/L or 0-2.00 mg/L
- Easy-to-use NUview™ software for set-up and deployments
- User-selectable sample intervals
- Simplifies TMDL nutrient monitoring
- Integrates with DCPs via SDI-12 or RS-232

The YSI 9600 Nitrate Monitor provides easy access to reagent bags and internal battery pack for field replacement. Its self-contained waste system prevents cadmium discharge into the environment. Additionally, due to an innovative pump design, the instrument generates a low volume of waste— 5 liters of waste over 30 days at a 1-hour sample interval.

Pure
Data for a
Healthy
Planet.®

Compatible with
EcoWatch® for Windows®

YSI 9600 Nitrate Monitor Data from an Ohio Estuary; 1-Hour Sample Interval



The data shows remarkably close agreement between the continuously deployed 9600 nitrate monitor and the control measurements throughout deployment.



To order, or for more information, contact YSI Environmental.

800 897-4151

www.ysi.com

YSI Environmental
937 767 7241
Fax 937 767 9353
environmental@YSI.com

Endeco/YSI
508 748 0366
Fax 508 748 2543
environmental@YSI.com

SonTek/YSI
858 546 8327
Fax 858 546 8150
inquiry@sontek.com

YSI Environmental Gulf Coast
225 753 2650
Fax 225 753 8669
environmental@ysi.com

YSI Hydrodata (UK)
44 (0) 1462 673 581
Fax 44 (0) 1462 673 582
sales@hydrodata.co.uk

YSI (Hong Kong) Limited
852 2891 8154
Fax 852 2834 0034
hongkong@ysi.com

YSI (Qingdao) Limited
86 532 389 6648
Fax 86 532 389 6647
china@ysi.com

Nanotech/YSI (Japan)
81 44 222 0009
Fax 81 44 221 1102
nanotech@ysi.com

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ISO 14001

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YSI 9600 Nitrate Monitor Specifications

Operating Environment	Medium: fresh, sea, or polluted water Temperature: 1 to 45 °C (34 to 113 °F) Depth: 0 to 61 m (< 200 feet)
Material	PVC, 316 Stainless Steel
Maximum Diameter	13.0 inches (33 cm)
Maximum Length	28.0 inches (71 cm)
Maximum Weight (Full Reagent Bags & Battery Pack)	Approximately 40 pounds (18.2 kg)
Weight in Air (Empty Reagent Bags & No Battery Pack)	Approximately 28 pounds (12.8 kg)
Weight in Water (Full Reagent Bags & Battery Pack)	Approximately 12 pounds (5.5 kg)
Computer Interface	RS-232 for communication to PC SDI-12 for communication to DCPs
Internal logging memory size	3 MB
Standard Battery Configuration	YSI 9611 Alkaline Battery Pack
Battery Life	> 70 days at a 1 hour sample interval at 20 °C (68 °F) > 30 days at a 1-hour sample interval at 5 °C (41 °F)
Power Draw Average over 60 days	16 mA
Analyte	NO ₃ ⁻ -N, NO ₂ ⁻ -N
Detection Method	4500-NO ₃ ⁻ -E (Cadmium Reduction/Diazotization)
Reagent Life	> 30 days at a 1-hour sample interval
Reagent Consumption	3.4 mL per sample
Generated Waste per sample	6.75 mL

2 mm Pathlength Detector Cell Recommended for Freshwater Applications

Range	0 to 10 mg/L Nitrate-N
Accuracy	0 to 6 mg/L; ± 5% of reading or 0.2 mg/L, whichever is greater; 6 to 10 mg/L; ± 10% of reading using 6 mg/L Nitrate-N standard. Accuracy in the 0 to 6 mg/L range may be slightly compromised by the use of the 6 mg/L standard.
Detection Limit	0.025 mg/L Nitrate-N

10 mm Pathlength Detector Cell Recommended for Saltwater Applications

Range	0 to 2 mg/L Nitrate-N
Accuracy	± 5% or 0.02 mg/L, whichever is greater, using 1 mg/L Nitrate-N standard.
Detection Limit	0.005 mg/L Nitrate-N