



## EXO NitraLED™

UV NITRATE SENSOR FOR FRESHWATER ENVIRONMENTS

### Nitrate Monitoring, **Enlightened.**

Utilizing state-of-the-art UV LED technology, EXO NitraLED™ is an optical nitrate sensor designed for long-term, low-drift monitoring. Built-in corrections for Natural Organic Matter (NOM) and Turbidity minimize interference in freshwater environments. Its compact form factor allows for seamless integration with any EXO Sonde.



#### **LIGHT UP YOUR MONITORING!**

Expand and enhance your water quality monitoring program with UV Nitrate for more informed decision making.



#### **LIGHTEN YOUR BUDGET!**

The world's most accessible monitoring solution for nitrate, at a fraction of the cost of lamp-based monitors.



#### **LIGHTEN YOUR LOAD!**

Fits in the palm of your hand—and integrates directly into any EXO Sonde. No external hardware required!



a xylem brand

# EXO NitraLED™ NITRATE MONITORING, ENLIGHTENED.



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Nitrate Monitoring, Enlightened.

## Sensor Specifications

Dimensions	Length: 21.3 cm Diameter: 1.5 cm Weight: 0.07 kg
Units Measured	NO3-N (Nitrate-N) in mg/L
Sensor Type	Optical, absorbance
Light Source	UV LED (x2)
Nominal Wavelengths	235 nm, 275 nm
Pathlength	10 mm
Measurement Range	0-10 mg/L-N
Lower Detection Limit <sup>1</sup>	0.005 mg/L-N
Accuracy <sup>1</sup>	± 0.1 mg/L-N or 5% of reading, w.i.g. (within 2°C) ± 0.4 mg/L-N or 5% of reading, w.i.g. (full temp range)
Response Time	T95 < 30 seconds
Drift / Stability <sup>2</sup>	≤ 0.2 mg/L-N
Repeatability / Precision <sup>1</sup>	≤ 2% Coefficient of Variation (CV)

## Additional Specifications

Operating Medium	Fresh water
Operating Temperature	5-35°C
Storage Temperature	-20-80 °C
Depth Rating	250 m
Warranty	2 years
Compatibility	EXO™

## Ordering Information

608090	EXO NitraLED Kit for EXO2 / EXO3 [includes sensor, ring & brush]
608040	EXO NitraLED UV Nitrate Sensor
608080	EXO2 / EXO3 Alignment Ring
608085	EXO NitraLED Wiper Brush

<sup>1</sup> These apply to analytes comprised of nitrate in pure water only and absent of all other absorbing species.

<sup>2</sup> Assumes a 30 day deployment with a 15 minute logging interval, and does NOT account for drift due to fouling.

SPECIFICATIONS XA00130-01

YSI, a Xylem brand  
1725 Brannum Lane  
Yellow Springs, OH 45387

+1.937.767.7241  
info@ysi.com  
YSI.com

Who's Minding the Planet?®



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