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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.



exo NitraLED™

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 ¹ | 0.005 mg/L-N |
| Accuracy ¹ | ± 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 ² | ≤ 0.2 mg/L-N |
| Repeatability / Precision ¹ | ≤ 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

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|--------|---|
| 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 |

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

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

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Who's
Minding
the Planet?®



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