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YSI UV Sensor for the IQ SensorNet System

NitraVis® NI IQ Nitrate/Nitrite UV probe



The NitraVis is a reagentless, optical-based spectrophotometer built into a rugged, corrosion-resistant field probe for the IQ SensorNet system. The NitraVis can report up to 2 parameters including Nitrate and Nitrite. The NitraVis probe scans 256 wavelengths per measurement to provide the most accurate data with precise compensation for interferences. The NitraVis provides continuous data to help with operational improvement decisions. The probe's built-in UltraClean® ultrasonic cleaning technology reduces routine maintenance requirements.

Parameters:

Nitrate
Nitrite

- Measures 256 wavelengths between 200 and 390 nm allowing it to differentiate between nitrate and nitrite
- 256 wavelength scans per measurement results in better accuracy and better compensation for interferences
- Factory calibrated with optional user-calibration
- 2-year warranty
- Reduced maintenance with UltraClean® ultrasonic cleaning technology; prevents biofouling from taking place. Built-in air holes for added air cleaning in high fouling applications.



A 5 mm gap YSI UV sensor deployed after one week with UltraClean® technology. No fouling observed on optics.



IQ UV probes are rugged, accurate and designed to withstand field conditions. The optics are kept clean with UltraClean® technology and the sensor's 256 wavelength scan provides unmatched accuracy. A 1 mm gap sensor is pictured.

NitraVis (NI) 701/705 IQ Technical Specifications

Range	NitraVis 701 NI (influent/aeration/effluent)	NitraVis 705 NI (effluent)
NO ₂	0.0 to 120.0 mg/L (influent/aeration); 0.0 to 300.0 mg/L (effluent)	0.0 to 100.0 mg/L
NO ₂ -N	0.00 to 30.00 mg/L (influent/aeration); 0.00 to 75.00 mg/L (effluent)	0.00 to 25.00 mg/L
NO ₃	0.0 to 300.0 mg/L (influent/aeration); 0.0 to 750.0 mg/L (effluent)	0.0 to 250.0 mg/L
NO ₃ -N	0.00 to 60.00 mg/L (influent/aeration); 0.0 to 150.0 mg/L (effluent)	0.00 to 50.00 mg/L
Wavelength range	200-390 nm	200-390 nm
Measuring gap	1 mm	5 mm
Operating Temperature	0 to 45 °C (32 to 113 °F)	Storage Temperature -10 to 50 °C (14 to 122 °F)
Warranty	2 years	
Flow Rate	≤ 3 m/s (~1 ft/s)	
pH range	4 to 12 units	
Cleaning System	UltraClean, ultrasonic cleaning system built directly into the sensors; air cleaning also available	
Dimensions	Length 802 mm (31.5 in); diameter 59.9 mm (2.35 in); weight ~ 4 kg (8.8 lbs)	
Certifications	CE, cETLus	
Protection Class	Sensor with SACIQ cable connected: IP68	
Pressure Resistance	1 bar (14.5 psi); maximum immersion depth = 10 meters	
Lightning/Voltage Protection	Yes	
Electrical	Power Consumption: 8 W, Two wire shielded IQ cable provides power and communication	
Materials	Housing: Titanium 3.7035, PEEK, POM Window: Sapphire glass	

NitraVis (NI) 701/705 IQ Digital Sensor Ordering Information (must be used with the IQ SensorNet, sensor cable sold separately)

NitraVis 701 IQ NI (Item # 481 056Y)	Optical Nitrite and Nitrate probe with integrated UltraClean ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, sensor cable sold separately.
NitraVis 705 IQ NI (Item # 481 057Y)	Optical Nitrite and Nitrate probe with integrated UltraClean ultrasonic cleaning. Supplied with multifunctional slide and Shock-Absorption-Rings, sensor cable sold separately.

Visit YSI.com/IQ for additional information on the entire IQ SensorNet system

YSI

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