MODEL UV6 - Nitrate ANALYZER

Compact online analyzer for the automatic measurement of Nitrate in water

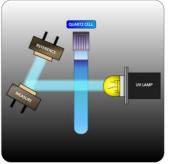
APPLICATION FIELDS

- Potable water treatment plants
- Municipal waste water
- Industrial waste water
- Rivers and surface water
- Ion-exchange and Reverse Osmosis



ADVANTAGES / FEATURES

 Dual compartment enclosure To ensure complete separation between the electronics and the wet part. Low operating cost – no reagents The UV spectroscopy measuring principle requires no chemical reagent resulting in very low operating and maintenance costs. 	 Wide measuring range The determination ranges of the UV6 Analyzer vary from 0.03 to 2500 mg/L NO₃ using internal dilution module. Dual-wavelength measurement for turbidity and dissolved organic compensation.
 Xenon lamp – UV light source The high stability and long operating life make them ideal as light sources for water quality analyzers. Factory tested, ready for installation and operation Just connect the power, sample and the analyzer is fully operational. 	Color touchscreen user interface The UV6 is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Multiple languages. Integrated datalogger with USB download.
Automatic calibration / zeroing / cleaning These automatic functions ensure optimum performance with the minimum of manual intervention. Free selectable cleaning, zeroing and calibration intervals.	Dual streams version – cost effective solution Dual streams version gives two measurements in one instrument, each stream can be either high range or low range with different correlation factors.



MEASUREMENT PRINCIPLE

Nitrate dissolved in water absorbs UV light in the range 190-240 nm.

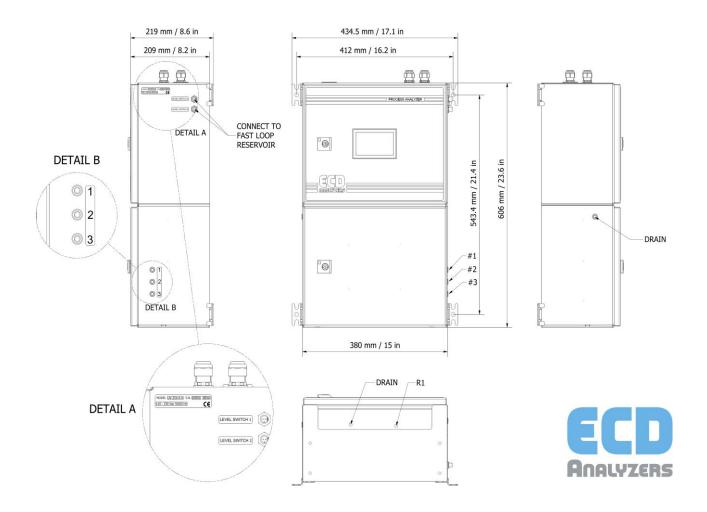
The xenon lamp produces a UV light radiation that pass through the sample water in a quartz measuring cell. The receiver analyzes the light pulses at two different wavelenghts, the measurement wavelenght (220 nm) and the reference wavelenght (270 nm), at which the sample constituents of interest do not absorb. This dual-wavelength measurement allows turbidity and dissolved organic compensation.



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TECHNICAL SPECIFICATIONS

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Measured parameter:	NO₃, N-NO₃ (mg/l, ppm).			Sample:	Pressure-free from overflow vessel Temperature: 41 - 122 °F (5 to 50 °C) Flow Rate: 80 to 500 mL/min Connection: 6 mm (¼-in.)		
Measuring principle:	Dual wavelenght technique, 220 nm measuring and 270 nm as reference, with matrix substraction			Drain:	Pressure-free, atmospheric drain Connection: 12 mm (½-in.)		
Measuring range:	12 mm cell: 0.02-30 mg/L NO₃	6 mm cell: 0.05-60 mg/L NO₃	2 mm cell: 0.5-100 mg/L NO ₃	Power supply:	Voltage: 100 - 240 VAC 50/60 Hz standard or 24 VDC (option) Power consumption: max. 80 VA		
$NO_3-N = NO_3 / 4.42664$ $NO_3 = NO_3-N * 4.42664$ All derivated higher range using internal dilution (up to 40 times dilution).		Outputs:	2 x 4-20 mA outputs for measured data Modbus RTU RS485				
Reproducibility:	± 2 % of reading or ± 0.5 mg/L NO ₃ , whichever is the greater ± 2 % of reading or ± 0.15 mg/L N-NO ₃ , whichever is the greater			Alarms:	4 SPDT programmable potential free relays, N.O. or N.C.		
Dimensions (H x W x D):	23.6 x 15.0 x 8.2 in / 606 x 380 x 209 mm			Digital input:	Remote start / stop		
Weight:	Approx. 44 lbs (20 Kg)			Operating Temperature:	41 - 113 °F (5 - 45 °C)		
Ingress Protection:	IP54			Humidity:	10 to 90% non-condensing (indoor use, outdoor installation only possible with protective cabinet or shelter not included)		
Analysis frequency:	Freely programmable, batch near-continuous analysis.			Installation:	Wall mount (standard), bench top support or panel mount (options).		



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