SPECIFICATIONS

DOCUMENT #W113





Parameters:

Nitrate Chloride Temperature

The NitraLyt[®] ISE sensor provides continuous data to help with operational improvement decisions.



YSI Digital NitraLyt[®] Nitrate/Chloride Sensor for the IQ SensorNet System

The NitraLyt[®] is a rugged, online probe for measuring temperature, nitrate and chloride concentrations with Ion Selective Electrodes (ISEs) for wastewater process monitoring.

The NitraLyt[®] probe is used within the IQ SensorNet system and can be networked with other probes and parameters for a complete process monitoring and control system. It measures nitrate with the option to also measure chloride for compensating the nitrate measurement and reporting.

The NitraLyt[®] is the ideal probe for quantitative measurement of nitrate in a wastewater treatment plant. The efficient control of nitrate in wastewater relies on the ability to take the measurements directly in the process. This direct ISE measuring technology is possible with the NitraLyt[®] sensor, enabling optimization of a plant in respect to process efficiency and energy consumption.

- Single- or dual- measurement of nitrate and chloride; measurement of chloride provides automatic and dynamic compensation
- Individual, user-replaceable electrodes and reference
- NitraLyt[®] reference system is very stable over long periods of time
- Analog or digital output of measurement with output modules (sold separately) for recording and control purposes
- Electrodes are recognized automatically
- Optional display of chloride
- 2-year warranty on the probe, 1-year on electrodes

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NitraLyt® P	lus 700 IQ Technical S	Specifications		
Parameter	Measuring Range		Resolution	
NO ₃ -N	0.1 to 100.0 mg/L		0.1 mg/L	
	1 to 1000 mg/L		1 mg/L	
NO ₃	0.5 to 450.0 mg/L		0.5 mg/L	
	5 to 4500 mg/L		5 mg/L	
Cl	1 to 1000 mg/L		1 mg/L	
mV	-2000 to +2000 mV		1 mV	
Temperature	-5 to 60 °C (23 to 140 °F))	0.1 K	Accuracy <u>+</u> 0.5 K
Operating & Compensation Range Temperature		0 to 40 °C (32 to 104 °	F)	
Storage Temperature	e	0 to 40 °C (32 to 104 °	F)	
Warranty		2 years on probe, 12 m	nonths on electrode	
pH range		4 to 12		
Dimensions	Length 392 mm (15.43 in); diameter 40 mm (1.57 in) - not including protection hood; weight (without sensor cable)~ 670 g (1.5 lbs)			
Certifications	CE, cETLus, EN, UL, CAN/CSA			
Protection Class	Sensor with SACIQ cable connected: IP68			
Pressure Resistance	0.2 bar (2.9 psi); maximum immersion depth $= 2$ meters			
Electrical	Power Consumption: 0.2 W, Two wire shielded IQ cable provides power and communication			
Materials	Housing: Stainless Steel 1.4571, POM (for electrode material see product manual)			
NitraLyt [®] P	lus 700 Electrode Spe	ecifications		
Electrode	NO ₃ ,	(Cl, Ref	
Measured at 20° C (concentration cha		50mg/L	10 to 100 mg/L	
Response time T ₉₀	< 3 r	nin ·	< 3 min	
NitraLyt® P	lus 700 IQ Sensor Or	dering Inform	ation	
107 080Y	NitraLyt® Plus 700 IQ. Robust digital nitrate probe for the ion-selective measurement (in-situ) of nitrate and chloride, for use with the IQ SensorNet system. Order electrodes separately.			
107 081YK	NitraLyt® Plus 700 IQ. Robust digital nitrate probe for the ion-selective measurement (in-situ) of nitrate and chloride, for use with the IQ SensorNet system. VARiON® Ref and VARiON® Plus NO3 included. VARiON Plus® Cl electrode sold separately.			
107 082YK	NitraLyt® Plus 700 IQ. Robust digital nitrate probe for the ion-selective measurement (in-situ) of nitrate and chloride, for use with the IQ SensorNet system. VARiON® Ref and VARiON® Plus NO3 and VARiON Plus® Cl included.			
107 042Y	VARiON® Ref. Reference electrode for mounting into VARiON® Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus probe.			
107 045Y	VARiON Plus NO ₃ . Nitrate electrode for VARiON Plus 700 IQ and NitraLyt Plus, measuring range: 0.1 - 1000 mg/l NO ₃ -N.			
107 047Y	VARiON Plus Cl. Chloride electrode for VARiON Plus 700 IQ and for NitraLyt Plus, measuring range: 1 - 1000 mg/lCl			

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

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