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YSI Digital AmmoLyt® Ammonium/Potassium Sensor for the IQ SensorNet System

The AmmoLyt® is a rugged, online probe for measuring temperature, ammonium and potassium concentrations with Ion Selective Electrodes (ISEs) using reference electrodes for the most accurate wastewater process monitoring.

The AmmoLyt® probe is used within the IQ SensorNet system and can therefore be networked with other probes and parameters for a complete process monitoring and control system. It can measure and display the compensated ammonium concentration with optional display of potassium. There is a constant potential with the measuring electrode and the reference electrode. This tension is read as the measured value and prevents interferences.

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

Parameters:

Ammonium
Potassium
Temperature

The AmmoLyt® ISE sensor provides continuous data to help with operational improvement decisions.



- Single- or dual- measurement of ammonium and potassium; measurement of potassium provides automatic and dynamic compensation
- Individual, user-replaceable electrodes and reference
- AmmoLyt® 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 potassium
- 2-year warranty on the probe, 1-year on electrodes

AmmoLyt® Plus 700 IQ Technical Specifications

Parameter	Measuring Range	Resolution	
NH ₄ -N	0.1 to 100.0 mg/L	0.1 mg/L	
	1 to 1000 mg/L	1 mg/L	
NH ₄	0.1 to 129.0 mg/L	0.1 mg/L	
	1 to 1290 mg/L	1 mg/L	
mV (Ammonium)	-2000 to 2000 mV	1 mV	
K	1 to 1000 mg/L	1 mg/L	
mV (Potassium)	-2000 to +2000 mV	1 mV	
Temperature	-5 to 60 °C (23 to 140 °F)	0.1 K	Accuracy ± 0.5 K
Operating & Compensation Range Temperature	0 to 40 °C (32 to 104 °F)		
Storage Temperature	0 to 40 °C (32 to 104 °F)		
Warranty	2 years on probe, 12 months on electrode		
pH range	4 to 12 for Ammonium		
Dimensions	Length 392 mm (15.43 in); diameter 40 mm (1.57 in)- not including protective 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)		

AmmoLyt® Plus 700 Electrode Specifications

Electrode	NH ₄	K, Ref
Measured at 20° C (68° F) and concentration change of..	10 to 100 mg/L, NH ₄ -N	5 to 50 mg/L, K
Response time T ₉₀	< 3 min	< 3 min

AmmoLyt® Plus 700 IQ Sensor Ordering Information

107 070Y	AmmoLyt® Plus 700 IQ. Robust digital ammonium probe for the ion-selective measurement (in-situ) of ammonium and potassium, for use with the IQ SensorNet system. Order electrodes separately.
107 071YK	AmmoLyt® Plus 700 IQ. Robust digital ammonium probe for the ion-selective measurement (in-situ) of ammonium and potassium, for use with the IQ SensorNet system. VARIION® Ref and VARIION® Plus NH ₄ included. VARIION Plus® K electrode sold separately.
107 072YK	AmmoLyt® Plus 700 IQ. Robust digital ammonium probe for the ion-selective measurement (in-situ) of ammonium and potassium, for use with the IQ SensorNet system. VARIION® Ref and VARIION® Plus NH ₄ and VARIION Plus® K included.
107 042Y	VARIION® Ref. Reference electrode for mounting into VARIION® Plus 700 IQ, NitraLyt® Plus, AmmoLyt® Plus probe.
107 044Y	VARIION Plus NH ₄ . Ammonium electrode for VARIION Plus 700 IQ and AmmoLyt Plus, measuring range: 0.1 - 1000 mg/l NH ₄ -N.
107 046Y	VARIION Plus K. Potassium electrode for VARIION Plus 700 IQ and for AmmoLyt Plus, measuring range: 1 - 1000 mg/l K+.

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

YSI

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