



IQ SensorNet VARiON® Plus 700 IQ H

ION SELECTIVE ELECTRODE SENSOR FOR HAZARDOUS LOCATIONS



The **VARiON® Plus H** is an online ion selective electrode (ISE) sensor for continuous measurement of ammonium and nitrate. The VARiON Plus H is certified for use in Class 1 Division 2 hazardous locations.

- **Certified for use in Class I, Division 2 (CID2) areas** - Conforms with NFPA standard 820 for CID2, groups A, B, C, D, and T6.
- **Cost Savings** - Individually user-replaceable electrodes have a typical lifetime of 18 to 24 months and have an industry-leading 1 year warranty, minimizing maintenance efforts and ownership costs.
- **Accurate and Reliable** - Measure either ammonium and nitrate plus 1 compensation electrode (potassium or chloride). The VARiON's mesh membrane and stable electrode provide accurate measurements for reliable treatment controls.
- **Compatible with IQ SensorNet's** extensive suite of online controllers and sensors.



a xylem brand

VARiON® Plus 700 IQ H DATA SPECIFICATIONS

Measurement Method	Measuring principle	Potentiometric measurement by means of ion sensitive electrodes (ISE)
Measuring Range	NH ₄ -N	MR1: 0.1 to 100.0 mg/L; MR2: 1 to 2000 mg/L
	NH ₄	MR1: 0.1 to 129.0 mg/L; MR2: 1 to 2580 mg/L
	mV	-2000 to +2000 mV
	NO ₃ -N	MR1: 0.1 to 100.0 mg/L; MR2: 1 to 1000 mg/L
	NO ₃	MR1: 0.5 to 450.0 mg/L; MR2: 5 to 4500 mg/L
	K (compensation electrode for ammonium)	MR1: 0.1 to 100.0 mg/L; MR2: 1 to 1000 mg/L
	Cl (compensation electrode for nitrate)	MR1: 0.1 to 100.0 mg/L; MR2: 1 to 1000 mg/L
Resolution	NH ₄ -N	MR1: 0.1 mg/L; MR2: 1 mg/L
	NH ₄	MR1: 0.1 mg/L; MR2: 1 mg/L
	mV	1 mV
	NO ₄ -N	MR1: 0.1 mg/L; MR2: 1 mg/L
	NO ₃	MR1: 0.5 mg/L; MR2: 5 mg/L
	K	MR1: 0.1 mg/L; MR2: 1 mg/L
	Cl	MR1: 0.1 mg/L; MR2: 1 mg/L
Temperature Measurement	Temperature Sensor	Integrated NTC
	Measuring Range	23 to 140 °F (-5 °C to + 60 °C)
	Accuracy	± 0.5 °C
	Resolution	0.1 °C
	Response Time	T95 < 20 seconds
Environmental Conditions	Operating Temperature	32 to 104 °F (0 °C to 40 °C)
	Storage Temperature	32 to 104 °F (0 °C to 40 °C)
	Allowable pH	4 to 12
	Rating	IP 68
	Maximum Pressure	0.2 bar
Electrical	Nominal Voltage	Max. 24 VDC, via IQ SensorNet system
	Power Consumption	0.2 W
	Protective Class	III
Conformance/Certifications	Electrical	UL 61010-1, CAN/CSA C22.2 # 61010.1
	Hazardous Location Ratings	Conforms to UL 121201, CAN/CSA C22.2 # 213; Class I Division 2, Groups A, B, C, D, T6; Class I Zone 2, Groups IIC T6
General	Material	V4A stainless steel and POM
	Dimensions	15.4 x 1.6 in (392 x 40 mm)
	Weight	1.48 lbs (670 g)
	Warranty	2 year sensor; 1 year electrode
Note	The VARiON Plus 700 IQ H (207040Y) requires the MIQ/BB1 module (207 001Y) for operation.	

SPEC SHEET XA00150

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