

ProCon® – IS-750 Series

Nitrate (NO₃⁻) Ion Sensor



ProCon® Nitrate Ion Sensor offers a wide measurement range from 0.5 to 62,000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant PVC membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.5 - 62,000 ppm
Resolution	0.01, 0.1, 1
pH Range	2.5 - 11 pH
Known Interference	ClO ⁴⁻ , I ⁻ , CN ⁻ , BF ⁴⁻ , Cl ⁻ , NO ²⁻
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	PVC Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Drinking Water, Wastewater, Surface Water, Sea-water, Food, Boiler Circulating Water etc

Model Selection

Part Number	Ion	Output
IS-750NO3	Nitrate	RS485



ProCon® – IS-750 Series

Nitrite (NO₂⁻) Ion Sensor



ProCon® Nitrite Ion Sensor offers a wide measurement range from 10 to 2200 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant PVC membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	10 - 2200 ppm
Resolution	0.01, 0.1, 1
pH Range	2 - 12 pH
Known Interference	Acetate Radical, F ⁻ , Cl ⁻ , NO ₃ ⁻ , SO ₃ ⁻
Accuracy	±0.01
Body Material	PP
Response Time	90% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	PVC Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Agricultural Products, Solid Waste Leachate etc.

Model Selection

Part Number	Ion	Output
IS-750NO2	Nitrite	RS485



ProCon® – IS-750 Series

Fluoride Ion Sensor

ProCon® IS-750 Series Fluoride Ion Sensor offers a wide measurement range from 0.02 to 20,000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant solid membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.02 - 20000 ppm
Resolution	0.01, 0.1, 1
pH Range	5 - 8 pH
Known Interference	OH ⁻¹
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 140°F 0 ~ 60°C
Resistance	20 ~ 50 MΩ
Membrane Type	Solid Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Drinking Water, Waste Water, Surface Water, Acid, Sea Water, Soil, Food, Fluoride in Toothpaste etc.

Model Selection

Part Number	Ion	Output
IS-750F	Fluoride	RS485



ProCon® – IS-750 Series

Chloride Ion Sensor

ProCon® IS-750 Series Chloride Ion Sensor offers a wide measurement range from 1 to 35,500 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant solid membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	1 - 35,500 ppm
Resolution	0.01, 0.1, 1
pH Range	2 - 12 pH
Known Interference	S ²⁻ , I ⁻ , CN ⁻ , Br ⁻
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 140°F 0 ~ 60°C
Resistance	20 ~ 50 MΩ
Membrane Type	Solid Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Rivers, Tap Water, plant Tissues, Soil, Boiler Water, Clinical Analysis, Biological Fluids, Food etc.

Model Selection

Part Number	Ion	Output
IS-750CI	Chloride	RS485



ProCon® – IS-750 Series

Ammonium Ion Sensor



ProCon® IS-750 Series Ammonium Ion Sensor offers a wide measurement range from 0.1 to 18000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant PVC membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.1 - 18000 ppm
Resolution	0.01, 0.1, 1
pH Range	4 - 10 pH
Known Interference	K ⁺
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	PVC Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Boiler Water, Surface Water, Fertilizer

Model Selection

Part Number	Ion	Output
IS-750NH4	Ammonium	RS485



ProCon® – IS-750 Series

Ammonia Ion Sensor



ProCon® IS-750 Series Ammonia Ion Sensor offers a wide measurement range from 0.01 to 17000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant Gas Sensitive Film membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.01 - 17000 ppm NH3
Resolution	0.01, 0.1, 1
pH Range	>11 pH
Known Interference	Volatile Amine
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Adjust pH>11 with Diluted Ammonia Standard Soln.
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	Gas Sensitive Film
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	High Purity Water from Power Plants, Seawater, Wastewater, Electroplating, Biological Samples etc.

Model Selection

Part Number	Ion	Output
IS-750NH3	Ammonia	RS485



ProCon® – IS-750 Series

Nitrogen Oxide Ion Sensor



ProCon® IS-750 Series Nitrogen Oxide Ion Sensor offers a wide measurement range from 0.2 to 220 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant gas sensitive film membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.2 - 220 ppm
Resolution	0.01, 0.1, 1
pH Range	1.1 - 1.7 pH
Known Interference	CO ₂ , SO ₂ , HF, CH ₃ COOH
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	Gas Sensitive Film
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Stack Gases, Air

Model Selection

Part Number	Ion	Output
IS-750NOX	Nitrogen Oxide	RS485



ProCon® – IS-750 Series

Carbon Dioxide Ion Sensor



ProCon® IS-750 Series Carbon Dioxide Ion Sensor offers a wide measurement range from 10 to 100,000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant gas sensitive film membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	10 - 100,000 ppm
Resolution	0.01, 0.1, 1
pH Range	4.8 - 5.2 pH
Known Interference	Volatile Weak Acid
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Diluted Carbon Dioxide Standard Solution
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	Gas Sensitive Film
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Soft Drinks, Wine, Fermentation

Model Selection

Part Number	Ion	Output
IS-750CO2	Carbon Dioxide	RS485



ProCon® – IS-750 Series

Potassium Ion Sensor

ProCon® IS-750 Series Potassium Ion Sensor offers a wide measurement range from 0.7 to 98,000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant PVC membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.7 - 98,000 ppm
Resolution	0.01, 0.1, 1
pH Range	2 - 12 pH
Known Interference	Cs ⁺ , NH ₄ ⁺
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	PVC Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	River & Tap Water, Soils, Wastewater, Serum, Fertilizer, Clinical Analysis, Wines etc.

Model Selection

Part Number	Ion	Output
IS-750K	Potassium	RS485



ProCon® – IS-750 Series

Calcium Ion Sensor



ProCon® Calcium Ion Sensor offers a wide measurement range from 0.2 to 40,000 ppm, ensuring accurate detection across diverse applications. It features a chemically resistant PVC membrane and a rugged polypropylene (PP) body for long-term performance in harsh environments.

Specifications

Measuring Range	0.2 - 40,000 ppm
Resolution	0.01, 0.1, 1
pH Range	3 - 10 pH
Known Interference	Pb ²⁺ Hg ²⁺ Cu ²⁺ Ni ²⁺
Accuracy	±0.01
Body Material	PP
Response Time	95% response in 30 Sec.
Maintenance/Cleaning	Deionized Water
Temperature Range	32 ~ 122°F 0 ~ 50°C
Resistance	20 ~ 50 MΩ
Membrane Type	PVC Membrane
Communication Interface	RS485 MODBUS RTU
Power Supply	12~24VDC
Protection Rating	IP68
Applications	Drinking Water, Wastewater, Surface Water, Sea-water, Food, Clinical Analysis, Ore etc

Model Selection

Part Number	Ion	Output
IS-750Ca	Calcium	RS485

