

Ion-Q+ Technical Specifications

Analyte	Level of Detection (mg/L)*
Total Inorganic Nitrogen	
Ammonium (NH ₄ -N)	0.2
Nitrate as N (NO ₃ -N)	0.1
Nitrite as N (NO ₂ -N)	0.1
Dissolved Reactive Phosphorous	
Phosphate as P (PO ₄ -P)	0.3
Other Inorganics	
Sulphate (SO ₄)	2.0
Magnesium (Mg)	1.0
Calcium (Ca)	1.0
Potassium (K)	1.0
Sodium (Na)	2.0
Chloride (Cl)	2.0
Fluoride (F)	0.2
Lithium (Li)	1.0
Iron (II) (Fe ²⁺)	0.5

*Note: The sensitivity of the Level of Detection can be tuned for different applications. The specifications listed are based on current field installations. An Eco Detection site survey will confirm the operating range for prevailing site conditions.

Independently validated by  Hill Labs

Ion-Q Series General	
Power	Mains power: 110-240 VAC input or solar and battery: nominal 350W panel and 100mAh lithium batteries
Connectivity	Internet via cellular or satellite
Sampling frequency	Flexible, from 15 mins to hourly Scheduled times of day or via external trigger
Accuracy	+/- 10% or 0.05 mg/L, whichever is greater (indicative*)
Service interval	Environmental: 365 days / 1,000 samples per service interval WTP Operations: 1,000 samples
Operating temperature	-5°C to +40°C (23°F to 104°F) ambient temperature
Environmental rating	Ion-Q+ – IP 54 External sub pump and sensors – IP 68
Compatible water conditions	Conductivity ≤ 2,000 µS/cm Turbidity ≤ 1000 NTU Total Suspended Solids ~ 4,000 mg/L (WTP aeration tanks)

Discover more at ecodetection.com
or contact sales@ecodetection.com

