

A revolutionary new nitrate and nitrite analyser for freshwater, wastewater and saline water



Real-Time Monitoring



- Minimum sampling interval: 10 minutes
- Analytical Range in freshwater & wastewater*
 - Nitrate: 0.6 - 500 mg/L NO₃
 - Nitrite: 0.05 - 100 mg/L as NO₂

In 35 ppt saline water, the lower limits of detection are 1.0 mg/L nitrate as NO₃ and 0.5 mg/L nitrite as NO₂



Accurate & Precise

- Accuracy ~ 99% (freshwater) >95% (wastewater and marine/30 ppt saline water)
- Low bio-fouling. No need for sample pre-treatment or add-on equipment in wastewater effluent



Choice of Data Transmission

- Direct SCADA integration
- And/or IoT enabled with cloud-based Datamonitrix platform for real-time data, setting alarms and alerts and receiving analyser self-diagnosis information



Simple to Use

- Quick and easy to install, set up and operate
 - no site preparation works required
- Compact, lightweight and portable
- Stable calibration and low-maintenance - even when moved to a new location or sample matrix
- The only intervention needed is to simply top up the reagent and empty the waste sample as required, depending on sampling frequency



Low total/lifetime cost of ownership

- Low requirements for skilled personnel
- No additional capex costs for setup or sampling
- Vendor-neutral servicing and long intervals between services
- Low cost, non-hazardous (NaCl) reagent

TECHNICAL DATA SHEET

Specifications

- + Analyser technology: Ion chromatography and UV-LED
- + Maximum sampling frequency: 10 mins
- + Accuracy:
 - Fresh water ~99%
 - Wastewater & Saline Water ~95%
- + Precision 95%
- + Analytical Range for Fresh Water and Wastewater*
 - Nitrate: 0.6 – 500 mg/L NO_3^- (0.14 to 113 mg/L as N)
 - Nitrite: 0.05 – 100 mg/L NO_2^- (0.01 to 23 mg/L as N)

**In 35 ppt saline water, the lower limits of detection are 1.0 mg/L nitrate as NO_3^- (0.23 mg/L as N) and 0.5 mg/L nitrite as NO_2^- (0.15 mg/L as N)*

Power Source

- + 15 - 25 V dc input power, 50W max. rated power
- + Integrated battery for backup
- + Solar/battery version available for mobile and off-grid use

Environmental

- + Operating temperature range: 10 - 40°C
- + Sample temperature range: 2 - 50°C
- + Operating humidity range: 10 - 90% RH, non-condensing
- + Storage temperature range: -20 - 60°C
- + Storage humidity range: 10 - 90% RH, non-condensing
- + IP rating: IP65 (IEC 60529)

Dimensions and Features

- + External size: 23cm X 36cm X 57cm (enclosure size, without supporting cradle)
- + Weight: 12 kg
- + Portable
- + Integrated provision for mounting/securing to a fixed surface (e.g. floor, wall, etc.)
- + Integrated carry handle and lockable hinged door
- + Rugged construction: Impact, UV and corrosion-resistant
- + Eluent: Sodium Chloride (NaCl)
- + Alarms and indicators: Tri-colour Status LED

User Interfaces/Data Output

- + Wired output transmission: MODBUS over Serial (RS232 / RS485)
- + IoT communication capability
- + Optional IoT Datamonitrix data management platform
- + Data communications via RS232, for commissioning/troubleshooting

Certifications

- + C.E. Mark, REACH

Warranty

- + One Year

Want to know more?

Call us on +353 59 9149097 (Europe)

Email us at info@aquamonitrix.com

Visit www.aquamonitrix.com