



# Game-changing performance, making high-frequency monitoring a reality

Aquamonitrix® combines the separation capabilities of rapid ion chromatography with the low-power requirements of UV-LED detection to provide laboratory-quality accuracy – from an automated, field-based analyser.

It can be operated by mains power or by a battery/solar unit.

Weighing just 12 kg and with a convenient carry handle, it can be used for mobile monitoring and long-term catchment/watershed studies in remote and off-grid location.

Unlike conventional portable UV, UV-LED or ISE-based nitrate sensors, which require frequent intervention, re-sets and recalibration, Aquamonitrix® can be operated virtually maintenance-free, with low technical skills needs, over extended deployments.

It can even be transferred from any one matrix type to another to another without recalibration.

## Virtually plug n' play for instant deployment

On arriving on site, your Aquamonitrix® unit can be installed and operating in a matter of hours

- No need for site preparation
- The analyser is lightweight and portable
- The only connections required are sample inlet and outlet
- Choose from the mains powered or the solar/battery version, with data communication options to suit your site

## Low life-time costs

- No nitrite/nitrate sampling or lab analysis costs
- Low skills requirement, with simple setup and minimal intervention operation
- Equally simple servicing, which can be carried out in-house or by a local vendor-neutral service company
- Low-cost, non hazardous (NaCl) eluent (reagent)

## Aquamonitrix® key performance parameters

- Aquamonitrix® can transmit your nitrate and nitrite readings by IoT and/or wired data transmission in real time to your environmental data management system
- The proprietary Datamonitrix portal allows you to store, manage and trend your data, set limits and alarms, and receive analyser self-diagnosis reports - all from your PC



## Want to know more?

Call us on +353 59 9149097

Email us at [info@aquamonitrix.com](mailto:info@aquamonitrix.com)  
Visit [www.aquamonitrix.com](http://www.aquamonitrix.com)

View more technical specifications over the page ->

# 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  $\text{NO}_3^-$  (0.14 to 113 mg/L as N)
  - Nitrite: 0.05 – 100 mg/L  $\text{NO}_2^-$  (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  $\text{NO}_3^-$  (0.23 mg/L as N) and 0.5 mg/L nitrite as  $\text{NO}_2^-$  (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)

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