

Are you **concerned about nitrate or nitrite levels** in your intake, process or effluent water?

Aquamonitrix® provides an accurate and user-friendly, real-time monitoring solution - whether you are concerned about nitrate and/or nitrite in the water entering your operation, the wastewater leaving your facility, or anywhere within the process.

It's easy to set up, requires minimal intervention over long deployments and can be moved to different sample matrices without requiring recalibration.

Aquamonitrix® provides accurate and precise real-time nitrate and nitrite monitoring, enabling you to:

- Perform real-time monitoring of nitrate and nitrite in the water entering your plant
- Investigate the source of nitrate upstream from your water abstraction point
- Optimise nitrogen removal in the wastewater treatment process
- Monitor nitrate levels in your treated effluent - for peace of mind - and to be the first to know in the event of an accidental exceedance
- Have the ability to provide full visibility and transparency on nitrate performance to regulators, customers and communities

Aquamonitrix® is a new type of real-time nitrate and nitrite analyser

- Based on rapid ion chromatography and a novel, optical detection technology
- Offering laboratory accuracy in the field
- With simultaneous, yet selective, detection of nitrate and nitrite over a broad analytical range suitable for environmental, potable and effluent water applications



Real-Time

| Accurate

| User-Friendly

When we say it's user friendly, we mean it

- Laboratory-quality accuracy (from ~ 99% in fresh water to >90% in challenging septic matrices).
- The ion chromatography step allows for separate optical detection of nitrate and nitrite.
- Low blockage and bio-fouling potential in wastewater. None of the accuracy loss or interference associated with standard UV detection. No requirement for specialised pretreatment or high-cost, add-on sampling equipment.
- Holds calibration over long deployments - even when moved to a different location or sample matrix.
- Straight-forward servicing and long intervals between services, with low intervention requirements.
- All that is needed is to simply top up the reagent and empty the waste sample as required, depending on the sampling frequency.

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 only connections required are sample inlet and outlet
- Choice of power & communication options to suit your site
- The analyser is portable, lightweight and smaller than an airline carry-on case

Low life-time costs

- No sampling or lab analysis costs for nitrate and nitrite
- Simple set-up and operation
- Equally simple servicing, which can be carried out in-house or by an agnostic service company
- Low skills requirement and low reagent costs

Aquamonitrix® key performance parameters

- Minimum sampling interval: 15 minutes
- Lab quality accuracy and precision
- Data fed directly to your SCADA/ central control system
- And/or to your secure Datamonitrix data management platform, for configurable alarms and alerts, and analyser self-diagnostics, all direct to your PC



Want to know more?

Call us on +44 1524 884972 (UK)
 +353 59 9149097 (Ireland and International)
 Email us at info@aquamonitrix.com
 Visit www.aquamonitrix.com

View more technical specifications over the page ->



TECHNICAL DATA SHEET

Specification

- + Analyser technology: Ion chromatography and optical detection
- + Minimum sampling interval: 15 mins
- + Accuracy: ~99% (fresh water) > 90% (septic wastewater)
- + Precision 95%
- + Analytical Range*
Nitrate: 0.6 - 500 mg/L as NO₃⁻ (0.14 to 113 mg/L as N)
Nitrite: 0.05 - 100 mg/L NO₂⁻ (0.01 to 23 mg/L as N)

** We can supply custom ranges within these broad limits by adjusting the sample loop to suit your analytical needs*

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
- + Reagent: Potassium hydroxide (KOH)
- + Alarms and indicators: Tri-colour Status LED

Power Source

- + 15 - 25 V dc input power, 50W max. rated power
- + Integrated battery for backup
- + Solar/battery powered version available

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

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)

Certifications

- + C.E. Mark, REACH

Warranty

- + One Year

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