

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

- Do you use raw water or nitrogenous compounds in your process or cleaning regime?
- Report on ammonia and/or nitrate as part of your effluent discharge licence?
- Operate in a nitrate sensitive zone?
- Want to demonstrate leadership in environmental stewardship and performance?

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

- Understand how to manage and optimise process parameters while maintaining discharge within permissible levels
- Investigate the source of nitrate and nitrite upstream of your raw water intake or effluent discharge point
- Be the 'first to know' in the event of an accidental discharge or exceedance – and take corrective action in real-time, avoiding ecological damage as well as the potential for fines and reputational damage
- Have the ability to provide full visibility and transparency on nitrate performance to regulators, customers and communities

Aquamonitrix® is a new type of nitrate and nitrite monitoring sensor

- Based on rapid ion chromatography and a novel, proprietary optical detection technology
- Offering laboratory accuracy in the field AND real-time measurement
- With instant alarm alerts and real-time data transmission to centralised control infrastructure



The US EPA has found Aquamonitrix® to be over 90% in challenging wastewater matrices

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

Everything about Aquamonitrix® has been designed with you – the user – in mind. Avoid the long wait-time and cost of high-frequency 'grab and lab' samples. Forget about the problems that beset many existing real-time analysers.

- Aquamonitrix® is easy to set up and operate - wherever you need to monitor
- Capable of handling wastewater matrices - no specialised pretreatment or high-cost sampling equipment needed
- Stable calibration and maintenance/servicing free operation over sustained deployments.
- The only intervention needed is to simply top up the reagent and empty the waste sample as required, depending on 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 power and sample inlet and outlet
- The analyser is portable, lightweight and smaller than an airline carry-on case

Low life-time costs

- No sampling and lab analysis costs for nitrate and nitrite
- Low requirements for skilled technicians
- Stable calibration - and straight-forward servicing that can be performed inhouse or by an agnostic service company
- Reduced reagent requirements

Aquamonitrix® key performance parameters

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



Want to know more?

Call us on **+44 1524 884972 (UK)**

TECHNICAL DATA SHEET

Specification

- + Analyser technology: Ion chromatography and optical detection
- + Minimum sampling interval: 15 mins
- + Accuracy: > 90%
- + Precision 95%
- + Analytical Range*
 - Nitrate: 0.5 - 500 mg/L NO_3^-
 - Nitrite 0.1 - 100 mg/L NO_2^-

**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

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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