



Your mission

To deliver clean and affordable drinking water, containing less than 50 mg/l nitrate and 0.5mg/l nitrite, to the customer's tap

Our solution

What if you could avoid or defer the high capital-cost, of energy-intensive nitrate removal processes and water blending?

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

- React instantaneously to spike nitrate levels in abstraction sources.
- Perform upstream catchment investigations of the source of nitrate pollution – and evaluate mitigation strategies
- Monitor nitrite formation in distribution pipes
- Support the move to smart, digital water networks

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% accurate over a 30-day deployment period



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 conventional nitrate and nitrite sensors.

- Aquamonitrix® is easy to set up and operate.
- It can be deployed for over 600 sampling runs before servicing, to discharge the waste sample and refill the reagent cartridge.
- That is equivalent to a deployment period of over 3 months, based on a monitoring regime of 6 samples per day.
- No recalibration is required until the end of the deployment period.

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 device is portable, lightweight and smaller than an airline carry-on case

Low life-time costs

- No nitrite/nitrate sampling and lab analysis costs
- No requirement for skilled technicians
- Stable calibration and straight-forward servicing 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 into your SCADA system 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

- + Sensory Type: Ion chromatography and optical detection
- + Minimum sampling interval: 15 mins
- + Accuracy: > 90%
- + Precision 95%
- + Analytical Range*
 - Nitrate up to 500 ppm as NO₃ (113 ppm as N)
 - Nitrite up to 100 ppm as NO₂ (31 ppm as N)
- + Limits of Detection*
 - Nitrate 1.5 ppm as NO₃ (0.34 ppm as N)
 - Nitrite 0.25 ppm as NO_2 (0.08 ppm as N)
- *Lower/higher limits of detection and custom ranges can be provided

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 Vdc 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 managment 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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