aqua monitrix ®

YOUR **REAL-TIME NITRATE & NITRITE** MONITORING TOOL

A revolutionary new nitrate and nitrite sensor for raw, process and effluent water monitoring

Real-Time Monitoring

- Minimum sampling interval: 15 minutes
- Analytical Range
  - Nitrate: 0.6 - 500 mg/L NO_3
  - Nitrite: 0.05 - 100 mg/L NO_2

Accurate & Precise

- Accuracy ~ 99% (fresh water) >90% in septic wastewater
- Low bio-fouling potential. No need for sample pre-treatment or add-on equipment in wastewater

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
- Straight-forward servicing and long intervals between services
- Low reagent costs

Real-time | Accurate | Simple

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 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)

  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 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

Want to know more?

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