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

Real-Time Monitoring

- Minimum sampling interval: 15 minutes

Accurate & Precise

- Accuracy of over 90%, Precision 95%
- The ion chromatography separation step ensures no loss of accuracy or performance in effluent water

Choice of Data Transmission

- Direct SCADA integration
- Or IoT enabled with cloud-based Datamonitrix platform for storing and analysing data/setting alarms and alerts

Simple to Use

- Quick and easy to install, set up and operate - no site preparation works required
- Compact, lightweight and portable
- Can be deployed for over 600 sampling runs before servicing - equivalent to a deployment period of over 3 months, based on a monitoring regime of 6 samples per day

Low total/lifetime cost of ownership

- Low requirements for skilled personnel for operation or servicing
- Stable calibration and long intervals between servicing
- Reduced reagent costs

Real-time | Accurate | Simple

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 NO_3 (113 ppm as N)
  - Nitrite up to 100 ppm as NO_2 (31 ppm as N)
+ Limits of Detection*
  - Nitrate 1.5 ppm as NO_3 (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

Power Source

+ 15 - 25 Vdc input power, 50W max. rated power
+ Integrated battery for backup

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
+ Reagent: Potassium hydroxide (KOH)
+ 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 managment platform
+ Data communications via RS232, for commissioning/ troubleshooting

Certifications
+ C.E. Mark, REACH

Warranty
+ One Year

Want to know more?

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