

nitrate and nitrite analyser and monitoring and process control -in fresh and fully saline water







Real-Time Monitoring

- Minimum sampling interval: 15 minutes
- Analytical Range in freshwater & wastewater*
 - Nitrate: 0.6 500 mg/L NO3
 - Nitrite: 0.05 100 mg/L as NO2

In 35 ppt saline water, the lower limits of detection are 1.0 mg/L nitrate as NO3 and 0.5 mg/L nitrite as NO2



Accurate & Precise

Accuracy ~ 99% (freshwater) >95% (wastewater and marine/30 ppt saline water)

• Low bio-fouling. No need for sample pre-treatment or add-on equipment in wastewater effluent



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

- Compact and lightweight
- Stable calibration and low-maintenance even when moved to a new location or sample matrix
- The only intervention needed is to simply replace the reagent, depending on sampling frequency



Low total/lifetime cost of ownership

Low requirements for skilled personnel

- No additional capex costs for setup
- Vendor-neutral servicing and long intervals between services
- Low cost, non-hazardous (NaCl) reagent





Specifications

- + Analyser technology: Ion chromatography and UV-LED
- + Maximum sampling frequency: 10 mins
- + Accuracy:
 - Fresh water ~99%
 - Wastewater & Saline Water ~95%,
- + Precision 95%
- + Analytical Range for Fresh Water and Wastewater*
 - Nitrate: 0.6 500 mg/L NO3
 - -(0.14 to 113 mg/L as N)
 - Nitrite: 0.05 100 mg/L NO2
 - -(0.01 to 23 mg/L as N)

*In 35 ppt saline water, the lower limits of detection are 1.0 mg/L nitrate as NO3 (0.23 mg/L as N) and 0.5 mg/L nitrite as NO2 (0.15 mg/L as N)



Dimensions and Features

- + External size: 33cm W X 70cm H X 18.5cm D (enclosure size)
- + Weight: 12 kg
- + Two-part enclosure solution, with separation of electronics and fluidics
- + Wall-mounted, integrated wall-mount lugs provided
- + Lockable hinged doors
- + Rugged construction: Impact, UV and corrosion-resistant
- + Eluent: Sodium Chloride (NaCl)
- + Alarms and indicators: Tri-colour Status LED
- + Integrated aquaSET option, for ASP sample pre-treatment
- + Optional external Flow Cell available, for sample presentation prior to analysis
- + Optional Expander Module: output relays,
- + dry contact



Power Source

- + 15 25 V dc input power, 50W max. rated power
- + Optional external Power Supply available, 85-264 Vac input, 24Vdc output (fully enclosed)



User Interfaces/Data Output

- + Integrated HMI, 4" touch interface
- + Wired output transmission: MODBUS over Serial (RS232 / RS485) as standard
- + Optional IoT Datamonitrix® data management platform
- + Optional accessories for conversion of output to Fieldbus, Industrial Ethernet, 4-20mA
- + Data communications via RS232 or Bluetooth, for commissioning/troubleshooting purposes



Environmental

- + Operating temperature range: 2 45°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?



