

## Delivering **accuracy** and **precision** in **fresh** and fully **saline** waters



### SAMPLING

Maximum sampling interval: 15 minutes  
Analytical Range in freshwater & wastewater\*

- Nitrate: 0.6 - 500 mg/L as NO<sub>3</sub>-
- Nitrite: 0.05 - 100 mg/L as NO<sub>2</sub>-

\* 35 ppt saline water, the lower limits of detection are 1.0 mg/L nitrate as NO<sub>3</sub>- and 0.5 mg/L nitrite as NO<sub>2</sub>-



### ACCURACY & PRECISION

Analyser technology: Ion chromatography and UV-LED  
Maximum sampling frequency: 15 mins

- + Accuracy:
  - Fresh water ~99%
  - Wastewater & Saline Water ~95%

- + Precision 95%
- + Analytical Range for Fresh Water and Wastewater\*

- Nitrate: 0.6 – 500 mg/L as NO<sub>3</sub>-  
- (0.14 to 113 mg/L as N)
- Nitrite: 0.05 – 100 mg/L as NO<sub>2</sub>-  
- (0.01 to 23 mg/L as N)



### DATA AND COMMUNICATIONS

- + Direct SCADA integration and/or IoT enabled with cloud-based Datamonitrix platform
- + Integrated HMI, 4" touch interface
- + Wired output transmission: MODBUS over Serial (RS485) as standard (RS232 optional)
- + Optional accessories for conversion of output to Fieldbus, Industrial Ethernet, 4-20 mA
- + Data communications via RS232 or Bluetooth, for commissioning/troubleshooting purposes

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## TECHNICAL DATA SHEET



### POWER

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



### CERTIFICATION

- + C.E. Mark, REACH



### WARRANTY

- + One Year



### 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)



### DIMENSIONS & FEATURES

- + External size: 33 cm W X 70 cm H X 18.5 cm D (enclosure size)
- + Weight: 12 kg
- + Polycarbonate enclosure solution – impact, UV and corrosion resistant
- + Lockable hinged doors, integrated wall-mount lugs
- + Eluent, non-toxic, non-hazardous: Sodium Chloride (NaCl)
- + Alarms and indicators: Tri-colour Status LED
- + Integrated setLR-monitrix<sup>®</sup> option, for ASP sample pre-treatment
- + Optional external Flow Cell available, for sample presentation prior to analysis
- + Optional Expander Module: features relay outputs and isolated inputs
- + Separation of electronics and fluidics into two independently sealed compartments
- + Eluent and waste storage containers external to the enclosure
- + HMI for enhanced user interfacing local to the device
- + Basic service/maintenance task capability using HMI
- + High reliability eluent delivery syringe
- + Easy access service points
- + Bluetooth support for wireless connectivity to test-monitrix<sup>®</sup> service support S/W (for service purposes)
- + Rugged UV detection cell
- + Easy validation using dedicated bump test sample inlet
- + Optional Profibus and Industrial Ethernet converter accessories, wide range of protocols supported.
- + Optional Expander Module accessory available featuring output relays for driving external actuators (e.g., pump, valve)
- + Support for remote start function (externally triggered on-demand run)
- + Fast-burst sample run mode feature available, triggered by outside-threshold NO<sub>2</sub>- and/or NO<sub>3</sub>- measurement readings.
- + External Flow Cell accessory available for continuous flow or batch sample preparation
- + Threshold alarms with built-in notification capability
- + In-built diagnostics to support planned maintenance

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