

## 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



## 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® 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® 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

## CONTACT US



**aqua monitrix®**

Email: [info@aquamonitrix.com](mailto:info@aquamonitrix.com)

Tel: +353 59 9149097

Web: [www.aquamonitrix.com](http://www.aquamonitrix.com)

