instran®

Online Water Quality Analyzer

The instran® online water quality analyzer provides accurate, real-time, and reliable analysis of a range of inorganic and organic contaminants. The fully automated online analyzer is backed by AMS' technical support service that ensures minimum time-to-repair and maximum uptime, resulting in high data availability for mission-critical applications.

instran® Applications

The instran analyzer is designed for sustainable and accurate control, enhancing process management, plant automation, and system optimization. It delivers reliable results in under 20 minutes for a broad range of water quality parameters in both water and wastewater treatment processes.

Method – Colorimetric
Aluminum, Boron, Chlorate, Cyanide, Cyanuric, Hydrazine, Iron, Manganese, Nitrite, Phenol, Phosphate, Silica

Method – Ion Selective Electrode (ISE)
Ammonium, Chloride, Chlorine, Fluoride, Nitrate, Sodium

Method – Titration
Alkalinity, Boron (High Range), Chlorine (High Range), Calcium Hardness, Total Hardness

instran® Features

Accurate
- Accurate, repeatable and reliable

Adaptable
- Auto-cleaning available to adapt the analyzer to water samples

Automated online operation
- Eliminates operator variability
- Measurement time less than 20 minutes
- Automatically calibrated
- Low consumption of reagents
- Low maintenance requirements

Comprehensive data acquisition
- Programmable contact closure for local alarm
- Easy-to-use front panel HMI
- Programmable on-board data acquisition

Robust and powerful
- System design and components are robust
- System can run different functions and is flexible to program

instran® Specifications

SYSTEM

Cleanings	Scheduled cleanings before and after each analysis with sample, DIW or specific solution
Analysis Correction	Temperature correction Blank correction LED current correction
Dose System	Syringe driven by step-by-step motor Accuracy: 0.015 mL
Fluid System	Loop to protect the syringe Valves made of Kalrez High resistance tubing (Tygon 2375) Complete system without fittings
Reaction Vessel	Low volume glass vessel (17mL) Automatic system to prevent overflow Special design to make drain easier
Sample Capture – Fast Loop	Inlet: 6 mm tub Outlet: 8 mm tub Fast loop inlet Sample level detector Anti-overflow system Manual valve to drain while manual cleaning
Environmental Conditions	Ambient temperature: 0-45°C
Power	Input: AC 100-240V — 50Hz Max Power: 288 W
Set-up	Steel frame IP66 enclosure
Dimensions	Steel frame: 65 x 40 x15 cm IP66 enclosure: 75 x 55 x 30 cm
User Interface	Keypad with 4 keys and 4 indication LEDs
Languages	English, Spanish
Communications	4-20 mA signal RS-485 communication RS485 MODBUS or PROFIBUS
Relays	4 relays (24V), assigned by user
Diagnostic Menu	Self-evaluation of analyzer status
Calibration & Analysis	Manual or automatic

OPTIONS

Cleanings	Scheduled cleanings before and after each analysis with sample, DIW or specific solution
Analysis Correction	Temperature correction Blank correction LED current correction
Dose System	Syringe driven by step-by-step motor Accuracy: 0.015 mL

* Note: Specifications are subject to change without notification.

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