

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 in water and wastewater treatment processes. The fully automated analyzer delivers results between 10-35 minutes; exact analysis time is contaminant-specific.

Method – Colorimetric

Cyanide, Manganese, Nitrite, o-Phosphate, Silica

Method – Ion Selective Electrode (ISE)

Ammonium, Fluoride, Nitrate

Instran Applications

The Instran analyzer is designed for sustainable and accurate control, enhancing process management, plant automation, and system optimization for municipal and industrial applications.

Instran Features

- Automated online operation
- Eliminates operator variability
- Measurement time between 10-35 minutes
- Automatically calibrated with onboard standard
- Robust and stable design, regardless of sample matrix conditions
- Low maintenance requirements
- Supports one or two sample streams
- Manual grab sample
- Flexible online scheduling
- Easy-to-use front panel HMI
- 4-20 mA outputs and MODBUS-RTU



Instran[®] Specifications

PERFORMANCE

Method of Detection	Colorimetric, Ion Selective Electrode (ISE) depending on the analyte
Analysis Time	10-35 minutes, analyte specific
Sample Streams Supported	Standard configuration: 1 or 2 streams
Sample Requirements	Temperature: 10-30 °C Pressure: 10-60 psi Flow rate: 100 mL/min
Sample Scheme	Syringe dispensing system; fast loop sampling system, which allows that the syringe never touches the sample or reagents.
Reagents	Provided separately by AMS representatives

SYSTEM

User Interface	Keypad with 4 keys and 4 indication LEDs. Configurable menus in several languages
Display	Backlit Monochrome – 8 lines x 20 characters, backlit graphic and widescreen, color optional
Relays	Four relays with three contacts (C, NO, NC), potential free and assignable per program
Calibration	Automatic and scheduled, automatic on-demand
Reactor	Small volume reaction cuvette (17 mL). Drain solenoid valve with large passage section (3 mm)
Memory	Microprocessor with internal program (firmware) upgradable via Micro SD
Communications	Two 4-20 mA analog outputs, separately configurable, and galvanically isolated. One MODBUS-RTU for output and control.
Fluidics System	Tubing made of inert materials. Teflon tube in the loop. Tygon 2375 tube (reagent resistant)
Sample Inlet	Fast external loop with built-in filter. Inlet: 3/8" tube. Atmospheric drain. Inlet fitting for 3/8" hose
Environmental Conditions	Ambient temperature: 5-30 °C
Dimensions – Instrument Board Only	H 25.5", W 16", D 5" [H 65 cm, W 41 cm, D 13 cm]
Dimensions - Cabinet	H 31", W 21" [26" w/Fast Loop], D 11" [H 79 cm, W 53 cm (66 cm w/fast loop), D 28 cm]

OPTIONS

Configuration	Online or manual (grab sample) mode
Weatherproof Enclosure	NEMA 4X system enclosure
Sample Preparation	Filter system

*Note - specifications are subject to change without notification.

AMS is the US distributor for Instrumentación Analítica, S.A. (INSTRU)

a: 1225 E. Arques Avenue, Sunnyvale, CA 94085 | t: +1 (408) 523-1900
e: info@ams-h2o.com | w: ams-h2o.com

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