

# Instran<sup>®</sup>

## Online Water Quality Analyzer

The Instran<sup>®</sup> 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

Aluminum, Boron (low range), Chlorine (low range), Chromium, Copper, Cyanide, Cyanuric Acid, Hydrazine, Hydrogen Peroxide, Iron, Lead, Manganese, Nitrite, Phenol, o-Phosphate, Silica

### Method – Ion Selective Electrode (ISE)

Ammonium, Chloride, Fluoride, Nitrate, Sodium

### Method – Titration

Alkalinity, Boron (high range), Chlorine (high range), Calcium Hardness, Total Hardness

### 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<sup>®</sup> Specifications

## PERFORMANCE

Method of Detection	Colorimetric, Ion Selective Electrode (ISE), or Titration 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

© 2026 AMS 03/26

