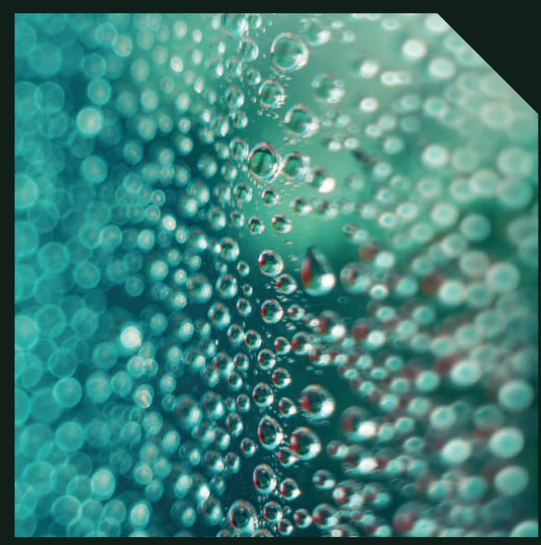
Innovation and Technology at your Service

Instran®

On-line Analyzer
Water quality parameters

We offer you all the solutions you need to keep moving the world forward



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Instru | INSTRUMENTACIÓN ANALÍTICA

Solutions
for those
moving the world

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FEATURES

ACCURACY
Accuracy, repeatability and reliability

LOW MAINTENANCE
Low maintenance required due to Instran design

ROBUSTNESS
Robustness thanks to elements are manufactured by the best materials

AUTONOMY
Low consumption of reagents to increase autonomy to save costs

ADAPTABLE
Auto-cleaning available to adapt the analyzer to waste water samples

POWERFUL
Ability to run different functions and flexible to program easily

MODELS & PARAMETERS **

COLORIMETRIC

Concentration determination after calculating the absorbance and using Beer-Lambert law

Aluminium ($Al^{3}+$)
Boron (B)
Copper (Cu)
Chromium VI - Chromium Total [Cr (VI) - Cr Total]
Cyanide (CN-)
Cyanuric Acid ($C_3H_3N_3O_3$)
Iron (Fe)
Arsenic (As)
Zinc ($Zn^{2}+$)
Manganese (Mn)
Nickel (Ni)
Nitrite ($NO^{2}-$)
Phenol (C_6H_6O)
Phosphate ($PO_4^{3}+$)
Silica (SiO_2)
Sulfates ($SO_4^{2}-$)
Brine Hardness

ISE (Ion Selective Electrode)

Ion selective electrode used to determine the concentration according to Nernst equation

Ammonium (NH_3 - NH_4+)
Chloride (Cl-)
Chlorine (Cl_2)
Bromide (Br-)
Fluoride (F-)
Nitrate (NO_3-)
Sodium (Na+)
Lead (Pb)

TITRATION

Colorimetric or ISE titration, depending on the type of measurement

Alkalinity
Boron (High Range)
Chlorine (High Range)
Calcium hardness
Total hardness
Sodium Hydroxide
Carbonate

** More parameters could be measured or designed upon request

PRODUCT SPECIFICATIONS

CLEANINGS	Scheduled cleanings before and after each analysis with sample, DIW or specific solution
ANALYSIS CORRECTIONS	Temperature correction Blank correction LED current correction
DOSING SYSTEM	Syringe driven by step by step motor Accuracy: 0.015 ml
FLUID SYSTEM	Loop to protect the syringe Valves made of Kalrez Hifgh 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
FAST LOOP - SAMPLE CAPTURE	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	0ºC to 45ºC
POWER	Input: AC 100-240V - 50Hz Max Power: 288 W
SET UP	Steel frame IP66 enclosure
SIZE	Steel frame: 65x40x15 cm IP66 enclosure: 75x55x30 cm
USER INTERFACE	Keypad with 4 keys and 4 indication LEDs
LANGUAGES	English, Spanish, French (More languages upon request)
COMMUNICATIONS	4-20 mA signal RS-485 communication RS485 MODBUS or PROFIBUS
RELAYSS	4 relays (24V), assigned by user
DIAGNOSTIC MENU	Self- evaluation of analyzer status
CALIBRATION & ANALYSIS	Manual or Automatic

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