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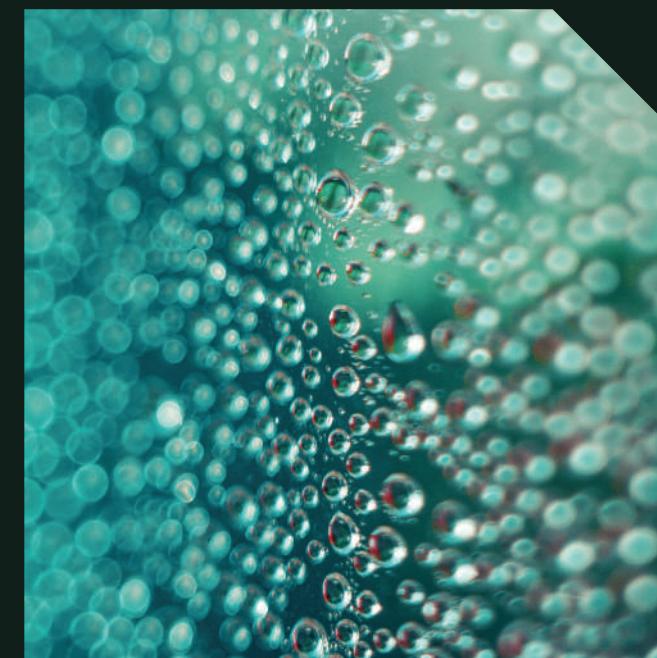


Instran®

On-line Analyzer
Water quality parameters

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keep moving the world forward



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Instru

INSTRUMENTACIÓN
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www.instran.net

Instru office
c/ Penedés, 46
08820 El Prat de Llobregat
Barcelona - Tel.+34 934 787 161
instran@instran.net
c.salinas@instran.net



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



ADAPTABLE

Auto-cleanings available to adapt the analyzer to waste water samples



AUTONOMY

Low consumption of reagents to increase autonomy to save costs



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 (Al³⁺)

Boron (B)

Copper (Cu)

Chromium VI - Chromium Total [Cr (VI) - Cr Total]

Cyanide (CN⁻)

Cyanuric Acid (C₃H₃N₃O₃)

Iron (Fe)

Arsenic (As)

Zinc (Zn²⁺)

Manganese (Mn)

Nickel (Ni)

Nitrite (NO²⁻)

Phenol (C₆H₅O)

Phosphate (PO₄³⁻)

Silica (SiO₂)

Sulfates (SO₄²⁻)

Brine Hardness

ISE (Ion Selective Electrode)

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

Ammonium (NH₃ - NH₄⁺)

Fluoride (F⁻)

Chloride (Cl⁻)

Nitrate (NO₃⁻)

Chlorine (Cl₂)

Sodium (Na⁺)

Bromide (Br⁻)

Lead (Pb)

TITRATION

Colorimetric or ISE titration, depending on the type of measurement

Alkalinity

Total hardness

Boron (High Range)

Sodium Hydroxide

Chlorine (High Range)

Carbonate

Calcium hardness



** 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
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

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

0°C to 45°C

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

RELAYS

4 relays (24V), assigned by user

DIAGNOSTIC MENU

Self- evaluation of analyzer status

CALIBRATION & ANALYSIS

Manual or Automatic