instran®

ON-LINE ANALYER

WATER QUALITY PARAMETERS

instrumentación analítica s.a.

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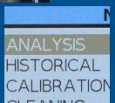
FEATURES

- Developed to determinate the **main water quality parameters** concentration.
- **Powerful** in its ability to run different functions and **flexible** to program easily according to customer requests**.**
- **Reliable**. The mechanical elements have been selected due to its strength and quality to prevent damage**.**
- **Low volume of reagents** to increase autonomy.
- **Low maintenace.**
- **Economical.**
- **Adjustable** to different kind of samples thanks to **self-cleaning** system.





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MODELS

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

ISE (Ion Selective Electrode)
Ion selective electrode used to determinate the concentration according to Nernst equation.

TITRATION
Colorimetric or ISE titration, depending on the type of measurement.

PARAMETERS

COLORIMETRIC
Aluminium (Al)
Boron (B)
Copper (Cu)
Chromium VI – Chromium Total [Cr(VI) – Cr total]
Cyanide (CN)
Cyanuric acid ($C_3H_3N_3O_3$)
Iron (Fe)
Manganese (Mn)
Nickel (Ni)
Nitrite (NO_2^-)
Phenol (C_6H_6O)
Phosphate (PO_4)
Silica (SiO_2)
Chlorate (ClO_3^-) - Development status

ISE
Ammonium (NH_3 – NH_4)
Chloride (Cl^-)
Chlorine (Cl_2)
Fluoride (F^-)
Nitrate (NO_3^-)
Sodium (Na^+)

TITRATION
Alkalinity
Boron (High range)
Chlorine (High range)
Calcium hardness
Total hardness

Ranges depending on the parameter.
New parameters can be performed as per customer request.

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PRODUCT SPECIFICATIONS

CLEANINGS	Scheduled cleanings before and after each analysis with sample, DIW or specific solution.
ANALYSIS CORRECTIONS	Temperature correction. Blank corection. 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 (17 ml). 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.

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PRODUCT SPECIFICATIONS

ENVIRONMENTAL CONDITIONS	0°C a 45°C
POWER	Input: AC 100-240V – 50 Hz 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
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	Manual o automatic.
ANALYSIS	Manual o automatic.

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