

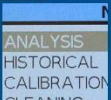
# instran®

## ON-LINE ANALYER WATER QUALITY PARAMETERS



# 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 maintenance**.
- **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<sub>3</sub>H<sub>3</sub>N<sub>3</sub>O<sub>3</sub>)  
Iron (Fe)  
Manganese (Mn)  
Nickel (Ni)  
Nitrite (NO<sub>2</sub><sup>-</sup>)  
Phenol (C<sub>6</sub>H<sub>6</sub>O)  
Phosphate (PO<sub>4</sub>)  
Silica (SiO<sub>2</sub>)  
Chlorate (ClO<sub>3</sub><sup>-</sup>) - Development status

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

### **ISE**

Ammonium (NH<sub>3</sub> – NH<sub>4</sub>)  
Chloride (Cl<sup>-</sup>)  
Chlorine (Cl<sub>2</sub>)  
Fluoride (F<sup>-</sup>)  
Nitrate (NO<sub>3</sub><sup>-</sup>)  
Sodium (Na<sup>+</sup>)

### **TITRATION**

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

## 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.

# PRODUCT SPECIFICATIONS

<b>ENVIRONMENTAL CONDITIONS</b>	0°C a 45°C
<b>POWER</b>	Input: AC 100-240V – 50 Hz Max power: 288 W
<b>SET UP</b>	Steel frame. IP66 enclosure.
<b>SIZE</b>	Steel frame: 65x40x15 cm IP66 enclosure: 75x55x30 cm
<b>USER INTERFACE</b>	Keypad with 4 keys and 4 indication LEDs
<b>LANGUAGES</b>	English, Spanish
<b>COMMUNICATIONS</b>	4-20 mA signal RS-485 communication RS485 MODBUS or PROFIBUS
<b>RELAYSS</b>	4 Relays (24V), assigned by user.
<b>DIAGNOSTIC MENU</b>	Self-evaluation of analyzer status.
<b>CALIBRATION</b>	Manual o automatic.
<b>ANALYSIS</b>	Manual o automatic.



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