Water Quality Parameters NO3- , NO2- & NH3

On-Line analysers of Water Quality Parameters

instran® by Blue Unit

Analysers sold individual or as part of a Blue Unit Lab Station system.

Features

- Developed to determine the main water quality parameters concentration.
- Powerful in its ability to run different functions and flexible to program easily according to customer customers' 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

Models

Colorimetric

Concentration determined after calculating the absorbance and using Bee-Lambert law.

ISE (Ion Selective Electrode)

Ion selective electrodes used to determinate the concentration according to Nernst equation.

Titration

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

Parameters

- Ammonia (NH_3) - ISE
- Nitrate (NO_3^-) - ISE
- Nitrite (NO_2^-)- Colorimetric

Features

Environmental conditions	0ºC to 45ºC
Power	Input: AC 100-240 V — 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
Relays	4 Relays (24V), assigned by user
Diagnostic menu	Self-evaluation of analyzer status
Calibration	Manual or automatic
Analysis	Manual or automatic
Cleanings	Scheduled cleanings before and - after each analysis with - sample, DIW or specific solution

Analysis corrections	Temperature correction Blank correction 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 (17ml) Automatic system to prevent overflow Special design to make drain easier
Fluid system	Inlet: 6 mm tub Outlet: 8 mm tub Fast loop inlet Sample level detector Anti-overflow system Manual valve to drain while manual cleaning