



AQ300

DISCRETE ANALYZER FOR ENVIRONMENTAL TESTING

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AQ300 is a low cost flexible analyzer that uses the principle of discrete analysis where each test occurs in a separate or discrete reaction vessel.



AQ300 is ideal for laboratories with smaller workloads requiring varied tests on different samples and when individual results are needed immediately.

AQ3U

USEPA, ASTM, ISO and other international regulatory compliant methods are available.

METHODS INCLUDE

Alkalinity Ammonia Chloride Cyanides Nitrate/Nitrite Nitrite Phenol Phosphate, ortho Phosphorus, total Silicate Sulfate Total Kjeldahl Nitrogen

PLUS MANY MORE

HOW DOES THE AQ300 WORK?

The AQ300 robotic sampling arm works in conjunction with a stepper motor-driven syringe that is responsible for aspirating, dispensing and mixing accurate and precise quantities of sample and reagent in miniaturized test tubes called reaction wells.

The sample and reagents are incubated in heated reaction wells until reaction is complete. A single aliquot is then transferred into a 10mm pathlength optical glass cuvette. The absorbance is read on the stationary reactant to ensure the best possible signal to noise ratio.

Each sample is read is the same position in front of the detector in the 10mm glass cuvette, similar to SEAL colorimetric flow systems, known for their high reproducibility and lowest detection limits. This eliminates issues of reaction well variability and scratching found in direct read discrete systems so improves reproducibility. In the SEAL AQ series, liquid is moved not the tray - fewer moving parts equals higher reliability.

Once the absorbance is read, the glass cuvette is thoroughly cleaned and checked, ensuring no carryover or cross contamination.

As a market leader, SEAL has over 1,000 applications available and under continual development. Markets include water, wastewater, soil, plant, fertilizer, food and beverage. Please contact us for your specific application. AQ300 – The latest in discrete analyzer technology Designed by chemists for chemists.

ADVANTAGES AND BENEFITS



- ~ 100% optical glass stop-flow cuvette
- 10 mm optimum path length



 used for each discrete reaction
Constant heating and programmable reaction time ensure reaction

reaches completion

~ Low cost, disposable wells

- Optional integrated cadmium coil reduction for nitrate/nitrite determination
 - Cadmium coil is sealed and valve controlled
 - In situ coil regeneration is fully automated



- Unique probe washer for cleaning sample probe between sample and reagent
- ~ Eliminates cross contamination



- Highly flexible software designed with user input
- ~ QCPro™ Data Quality System – allows the user to specify QC types, limits and corrective actions



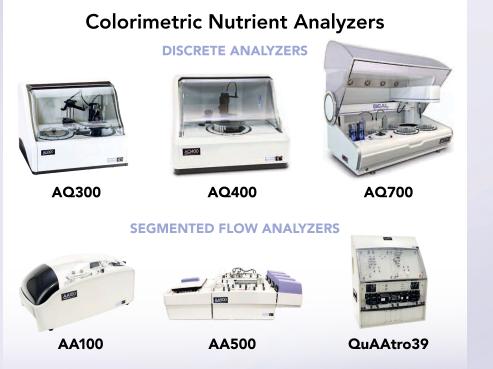
- True unattended operation including ability to run overnight
- Automated standard preparation and dilution of over range samples
- Tests programmable per sample to reduce analysis time
- Add samples after a run has started
- Total volume per test only 500 600 μL
- LIMS compatible export in .csv format
- Simple user maintenance



PLEASE VISIT

www.seal-analytical.com

or contact your local SEAL Analytical representative about your specific application.



50 Years of Experience in Environmental Analysis Built into Every Analyzer

50 years' experience in designing, developing and manufacturing automated wet chemistry analyzers specifically for very low detection levels in environmental applications has helped SEAL to apply the most useful, easy to use features into the SEAL range of Discrete and Segmented Flow analyzers. The SEAL analyzers are widely acknowledged as the best for environmental analysis, giving you everything you need to achieve equal or superior results to the manual and approved laboratory methods the SEAL analyzer replaces.



www.seal-analytical.com

SEAL Analytical is a global company with offices worldwide - contact us at:

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SEAL Analyzers are monitoring environmental samples in every corner of the globe. They are manufactured in the USA, Germany and the Netherlands. Engineering and chemistry support is provided from SEAL global facilities in USA, Germany, UK, the Netherlands and China along with a worldwide network of specialist distributors.

COMPREHENSIVE SUPPORT

We offer comprehensive applications, technical service and software support.

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- A choice of preventative maintenance and service contracts to meet your specific requirements
- In-house and online training
- Guaranteed availability of genuine consumables and spare parts
- Adaptation of methods to specific requirements such as matrix, range or detection limit
- Continuous in-house development of software to incorporate new customer requested features

Robotic Handling Systems

SEAL Robotic MiniLab systems for automating sample pretreatment in the laboratory — improving your sample handling efficiency. Typical applications include BOD, pH, COD, Alkalinity, and conductivity measurements with options such as decapping/capping, sample splitting, and filtration. Call us about your laboratory needs and we will design a robot to suit you.

