New, Modular Multi-Method System

Enabling the Analysis of Several Chemical Parameters on a Single Platform



Quality control in many industries depends on the routine analysis of a handful of key parameters. Often, determination of these parameters is distributed across several technologies and methods. This goes along with the aggregation of results and management of data from different sources.



With the launch of the new, modular Omnis platform for comprehensive wet chemical analysis, this situation will change. The new modular platform integrates comprehensive wet chemical analysis focusing on titration methods at the time of its first release with the implementation of all other techniques of the Metrohm portfolio (ion chromatography, spectroscopy, and more) scheduled to follow. The benefits of the new platform for multi-method analysis are evident: No matter which parameters need to be determined and by which methods, the new, powerful Omnis software collects the results for each sample and shows them in a single report.





Fig. 1: Fully modular: Users may start out with a single stand-alone Titrator. This basic unit may then be scaled up step by step with up to 4 additional Titration Stands and up to 8 additional Measuring Interfaces.

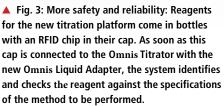
Scale up Step by Step

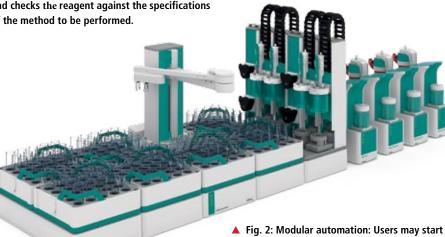
The modular design and licensing concept of the new platform enables users to scale up the new platform step by step and customize it according to their requirements. Instead of investing in new analyzers and software each time they need to push the limits of their installed base, users simply license additional functional modules as well as firm- and software modules to scale up their system.

The modular concept of the new platform also includes automation: Omnis can be scaled up step by step from a stand-alone system for manual operation to a powerful robotic system enabling the analysis of up to 175 samples at 4 work stations simultaneously, completely unattended.









Safer and More Reliable

Wet chemical analysis by definition includes handling liquid reagents. Exposure to chemicals during reagent exchange is a potential hazard to the health of laboratory workers, especially when removing aspiration tubes from bottles with toxic content. Metrohm is pleased to present the Omnis Liquid Adapter, a new technology that puts an end to this risk altogether by handling reagents in a closed system at any stage during reagent exchange.

Protected Exchange

The patented Liquid Adapter is simply put on a corresponding bottle cap that is part of the reagent bottle. As soon as this liquid adapter is connected to the bottle cap, reagent from the bottle can be aspirated by the system and the analysis can be started.

Full Traceability

Artificial intelligence further enhances this new system enabling unambiguous identification and monitoring of the reagent at all times. To this end, the bottle cap contains an RFID chip with complete information about the content of the bottle. Upon connection to the Liquid Adapter, Omnis identifies the reagent and checks it against the specifications of the method to be performed. This check prevents user errors and provides full traceability of the titration.

out with an Sample Robot S, which can be

scaled up to a Sample Robot M or even L.

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