



## The Skalar Data Acquisition and Control Unit

Interfacing the San<sup>++</sup> chemistry section with the FlowAccess<sup>™</sup> software is handled by the SA8505 Data Acquisition and Control unit. It interfaces all types of Skalar detectors including the Skalar digital Matrix Correction Photometers and can be customized to meet all San<sup>++</sup> configurations. Furthermore, the interface offers even more flexibility as both digital and analogue detectors can be easily accommodated together. In addition, it controls up to 3 digital Random Access samplers with the optional sampler-communication board. The Data Acquisition and Control Unit is easily upgradable with additional detectors when more parameters require to be analyzed in the future.

A total of 8 positions are available for connecting up to 8 digital detectors. For example, 8 digital dual channel detectors can be connected to measure up to 16 different parameters simultaneously. For applications requiring matrix correction, a total of 8 digital matrix correction photometers can be used. The digital matrix correction photometer assures highly accurate results, as it corrects automatically for sample matrix interferences.

In case of seawater analysis Skalar offers the unique digital Turbo Matrix Correction Photometers to automatically correct for the salinity of the sample. A total of eight Turbo Matrix Correction Photometers can be used in combination with the Data Acquisition and Control Unit. The power supplies for all detector lamps are built into the interface and therefore less bench space is required.

In addition to these 8 digital connections, up to 8 analogue channels can also be connected for analogue detectors such as an IR detector, UV detector, Fluorimeter, Flame photometer, pH meter, etc.



For increased sample throughput, the Data Acquisition and Control Unit can also be extended with an optional system controller to allow unattended overnight operation with full automatic startup and shutdown. Up to three independent San<sup>++</sup> analyzers can be controlled, including the fully automated system-rinse procedures by the reagent switching valves. Up to 6 switching valves, each offering 5 or 10 positions for reagent lines, can be integrated.

# Data Acquisition and Control Unit Specifications

- \* Tower or Desktop model
- \* Up to 8 positions for digital photometers, such as
  - 8 dual-channel digital photometers (total 16 channels)
  - 8 digital matrix correction photometers
  - 8 digital turbo matrix correction photometers, or a combination of these
- \* Up to 8 analogue detectors can be interfaced (e.g. IR Detector, UV Detector, Fluorimeter, Flame photometer, ISE, etc)
- \* Controls up to 3 independent SAN++ Analyzers, including 6 rinsing valves for fully automatic startup and shutdown, including system-rinse (option)
- \* 3 point leak detector per analyzer (option)
- \* 1 x RS232 connection for PC
- \* 1 x RS232 connection for computer-controlled sampler
- \* A further 2 RS232 ports for additional computer controlled samplers (option)
- \* Status indication by LCD
- \* Easily upgradable firmware (with USB memory stick) for future developments
- \* Dimensions (H x D x W) 44 x 36 x 15 cm
- \* Weight approx. 14.5 kg
- \* Power consumption max. 500 VA



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