



RTA_{3D}

Real Time Analyzer

ACE

Automatic Calibration Expansion System

Designed to operate with Technic's innovative RTA3D System, the Automatic Calibration Expansion elevates Real Time Analysis with self-diagnosing capabilities.

Our stand-alone ACE System provides a fully automated in-line analysis that is virtually maintenance-free. The unit is equipped with an onboard PLC that communicates directly with the RTA3D system and interprets commands while providing system status updates.

Automation

- The ACE System is capable of performing all calibration experiments based on customer requirements and timetables.
- Automatic bath sampling provides scheduled reliable results.
- The automatic standard solution analysis is interpreted and applied to calibration corrections.

Consolidated Design

- The ACE System houses Technic's RTA3D system including probe and all necessary standard solutions for automatic calibration procedures in one package.
- All necessary sensors, valves, and pumps for sample processing and analysis are controlled by an onboard PLC.
- A newly designed GUI interface will allow for an easy-to-access control of all RTA3D features through the ACE System's integrated touch-screen.
- The fully customizable GUI environment can be catered to inform operators about information relevant to their needs.
- A top-mounted light tower informs operators of system messages and/or critical alerts.



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Standard Solution

- The system can store up to 4 liters of each standard solution.
- The volume of each standard solution is monitored by bottle proximity sensors to alert fab personnel when fluid levels are low.

Eliminates Human Error

- By eliminating the human factor in performing standardization experiments the system can achieve reproducible results for each standardization procedure without the need to occupy trained technicians.
- Technician input will only be necessary to refill standard solution bottles when notified by the ACE System.

Greater Sampling Accuracy

- The ACE System features a newly designed and more accurate sampling approach; adapted and improved on Technic's existing offline system.
- The system isolates each bath sample ensuring consistent and reproducible conditions throughout all experiments.
- Sampling procedures are consistent among standard solution and bath samples; eliminating variability between analytical scans.
- Bath samples can be routed back to tank or flushed to waste depending on customer needs.

Safety

- Built-in PLC will monitor real-time system conditions and alert operators of any faults.
- Door interlocks will prevent system operation during operator access to lower chemical chamber.
- An EPO switch is provided on front panel of unit to allow operators to quickly cut power in case of emergency.



RTA3D with ACE's intuitive touchscreen GUI provides information that can be quickly interpreted by users. Screen setup can also be easily customized by each operator to streamline process control and allow only necessary information to be displayed.



The ACE system houses standard solutions used for automatic calibration adjustments allowing the RTA3D to run these experiments based a custom schedules tailored for each customer's specific application.

