



Trace Elemental
Instruments



// EVOLUTION 1000

Your optimal update for ECS1000 recorders and the analogue coulometers. Our new digital coulometer and control software with the possibility of connecting it to any ECS1000 system via USB 2.0.

TE Instruments have developed a completely new digital coulometer and control software (**TEIS**) with the possibility of connecting it to any ECS1000 system.

Now the interface hardware is simply connected via USB 2.0 protocol, which reduces the cost of replacement hardware

significantly. Forget about your recorder and coulometer problems for good. Any desktop PC or Laptop will do just fine!

www.TE Instruments.com

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Old school gets renewed, Welcome to simplicity!

ECS1000 still standing strong

Since its introduction in the mid 80' s, there are still many ECS1000 systems used in the field. Despite the fact that it has proven to be an incredible robust and reliable instrument, replacement of some crucial parts is necessary, to keep it in pristine operational condition.

History might turn obsolete

Especially recorder and the analogue coulometer need our special attention. In many cases parts and service are hard to get. The new TE instrument Evolution 1000 brings you the solution.

How does it work?

Control of both bias & gain are now executed via the software (**TEIS**). Automatic integration of the generated μA signal (titration curve), full storage of measured data, curves, baseline display and recalculation capabilities are now part of the daily routine!

To complete our offer, a modern capillary titration cell is included, with all electrodes and all necessary connectors, to hook it up to your system.

Simplified operations

Expert knowledge about the ECS1000 hardware such as the salt bridge titration cell and settings of the analogue coulometer and recorder skills, are no longer a must in order to obtain spot-on results.





OLD ECS1000



NEW EVOLUTION1000



Enhanced productivity
& future proof

FEATURES

- Software control over gain and bias settings
- No recorder maintenance or consumables
- Practically unlimited real time curve and data storage
- Recalculation of titration curve & results
- Possible data logging of customer changes made in software
- Statistical protocols (RSD, Shewart-control-chart, etc)
- Report generator
- Printing on demand
- Data export, e.g. EXCEL
- LIMS export

BENEFITS

- Easy operation
- Cost reduction
- Easy & safe data access
- Improved accuracy
- GLP proof
- Quality warranted over time
- Your lab layout
- Whenever you need a hard copy
- Flexible exportable data formats
- Serving the bigger picture



Trace Elemental Instruments, helps you keep the trees & save some paper

TE Instruments Analytical Software (TEIS):

Ensuring intuitive and smooth control of your total halogen analysis. The advanced user interface of the TE Instruments Software (TEIS) ensures the smooth operation of the AOX, EOX, POX analyzers with user-friendly controls and operation. TEIS assists the user to achieve routine analysis in an efficient, fast and reliable way. Instrument operation remains simple with the incorporation of clear and user friendly icons.

This resourceful software makes it possible to modify sample queues, evaluate data and calibration lines, while running analysis. Results can be presented in customized print reports or exported in a variety of data formats.



FEATURES

- One software solution for all TEI analyzers
- Real time measurement curves
- Multi-Elemental analysis
- Selectable user and service levels
- Customized application and analysis methods
- Fully multi-tasking

BENEFITS

- Reduces complexity and improves productivity
- Maximal analysis control, compare samples at a glimpse
- Optimal analysis control and time saving procedure
- Security and data integrity
- Full and flexible control of the analysis/system
- Efficient, user friendly and time saving

EVOLUTION 1000 Module Specification

Coulometer & communication box	
Dimensions (HWxHxD):	5 x 18 x 24 cm (1.97 x 0.7 x 9.45 inch)
Ambient temperature:	10-35°C
Input Voltage:	100-250V, 50-60Hz
Power consumption:	10 VA max
Weight:	0.6 kg (1.32 lbs)
PC connection:	USB 2.0 protocol
Titration Cell	
Gas connection:	Special gas inlet tube, provided with kit
Gas output:	Vent option in electrode container
Reference separation:	Multiple capillary (no salt bridge anymore)
Working electrodes:	HDPE, Solid Silver
Cathode:	Glass, sintered frit, Platinum
Reference electrode:	Glass, Ag/AgCl
Wetted parts Cell:	PTFE, PVC, Glass

