



Advanced Electrochemistry System (Model ERZ101)



Description

The ERZ101 Advanced Electrochemistry System contains a discounted bundle of equipment for most electrochemistry techniques, including electrochemical impedance spectroscopy (EIS). It includes an EIS unit, potentiostat, data recording unit, electrodes and software. The bundle is ideal for both research and teaching.

System Components

- ERZ100 [Electrochemical Impedance Analyzer](#)
- EA163 [Potentiostat](#)
- ED410 [e-corder](#)
- ET014 [EChem Electrode Kit](#)
- ES260 [EChem Software](#)
- ES500 [Chart and Scope Software](#)

Available Techniques

- Electrochemical Impedance Spectroscopy
- Cyclic Voltammetry
- Linear Sweep Voltammetry *
- Square Wave Voltammetry *
- Normal Pulse Voltammetry *
- Differential Pulse Voltammetry *
- Multi Pulse Voltammetry
- Multi Pulse Amperometry
- Chronoamperometry (single or multistep)
- Chronocoulometry (single or multistep)
- Chronopotentiometry (single or multistep)
- Controlled potential electrolysis
- Controlled current electrolysis

* Also available in stripping mode for trace element determination. Metals such as copper, lead, cadmium and zinc can be determined in the ppb range even in an undergraduate lab (no clean room required!).

Battery technology, corrosion science, conducting polymer and electrosynthesis experiments can also be performed.