ECO CHEMIE – AUTOLAB

Martijn van Dijk

Founded in 1986 and since 1999 a member of the Metrohm group of companies, Eco Chemie designs and manufactures state of the art Autolab series of instrumentation and software for electrochemistry and biochemistry.

ISO 9001:2000 certified, Eco Chemie has been setting the benchmark in electrochemical research instrumentation for almost two decades.

With our background and knowledge in electrochemistry and biochemistry and our worldwide distributor network, our mission is to serve the research community worldwide by supplying modern, affordable instruments, software and accessories.

The Autolab instruments serve a wide range of industries and research applications.

Ever since the foundation everyone within the company has been dedicated to the development, production and testing of Autolab electrochemical instruments and their software. This Focus coupled with the flexibility of the company resulted in the finest range of potentiostats/galvanostats available today.

The flexibility of Eco Chemie is reflected in the modularity of the Autolab instruments. Potentiostat range from 12 to 100 V output voltage with the possibility to add a variety of modules throughout the lifetime of the instrument.

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Some of the popular modules include:

- FRA2 (Module for impedance spectroscopy, for battery and corrosion research)
- BIPOT (Bi-potentiostat, second working electrode in combination with other techniques like; Scanning Electro Chemical Microscope, Scanning Tunneling Microscope and Raman)
- ADC 750 (Fast sampling module, scan rates up to 10 kV/s in combination with SCANGEN true analog sweep generator)
- ECD (Low current amplifier, current ranges from 10 pA to 100μA)
- MUX (Multiplexing module, possibility of measuring a maximum of 96 complete electrochemical cells or 256 working electrodes in sequence)
- BOOSTER 10A/20A (Current booster)

The Autolab instruments can be controlled by two different software packages:
General Purpose Electrochemical Software for all common DC electrochemical techniques and the **Frequency Response Analyzer software** for impedance spectroscopy (in combination with the FRA2 module)

The combination of the Autolab hard- and software gives the user an unrivalled instrument to perform a wide range of electrochemical experiments. Fundamental electrochemistry, corrosion and battery & fuel cell research are easily achieved with Autolab systems.