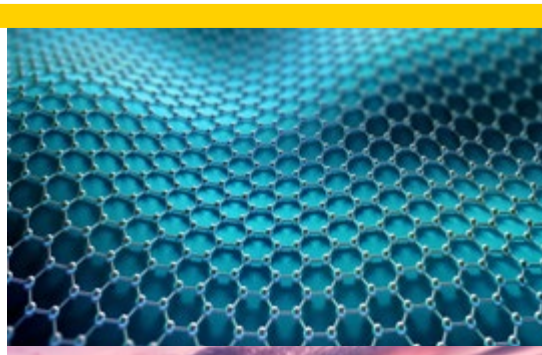
Premium single channel Potentiostats.

High-performance, high modularity, single-channel instruments with 7 MHz capability, Quality Indicators for advanced EIS research and floating.



Premium measurement tools for electrochemists.

SP-300

2 channels - Fast, sensitive, stable and modular

Voltage: ±10 V. ±48V with booster.
Current: ± 500 mA down to 100 pA
EIS: Up to 7 MHz

Two channels – a fast, sensitive, stable and modular workstation

- State-of-the-art research grade potentiostat/galvanostat
- Outstanding specification: 500 mA to 10 A current, built-in EIS, 7 MHz max frequency, floating mode, analog filtering, built-in calibration board, and stability bandwidths
- RDE/RRDE compatible: integrate standard or EIS board for use as a bipotentiostat
- Compatible with high-current/high-voltage option board (up to 10 A / 48 V)
- Multiple-user system: two different researchers can use each channel board independently
- Perfect for group projects: connect to LAN for independent control via multiple users

Add-ons: instruments that grow with your needs

Options	Specification	Application
ULC (ultra-low current)	LC option	Provide 100 fA accuracy for analytical electrochemistry and corrosion
Booster	1A/48V 2A/30V 4A/14V 10A/6V HCV-3048* Connect up to 4 units	Battery, supercapacitor, fuel cell, electroplating & electrolysis, Supercapacitor or fuel cell characterization Battery testing Battery pack characterization Large battery cells supercapacitors, or fuel cell characterization
EIS	EIS option	Validation of EIS measurements possible with VMP-3e/VSP-3e (Quality Indicators)
ARG	True linear (analog) voltage ramp	Allow fast scan rate up to 1 MV/s to detect/characterize short lifetime species. Ensures smooth voltage scan

Powerful, proprietary functionality unique with EC-Lab©...

Modify-on-the-fly

This unique functionality gives freedom and control; enabling users to build experiments without having to anticipate and plan experiments from scratch. This leads to:

- Easier management of long-term experiments
- Increased creativity
- Easier set-ups

Display & Embedded Analysis

- Global view
- Multigraph
- Improved visibility of data for easier monitoring
- EIS data modeling (Z Fit)
- CV data modeling (CV Fit)
- Range of fitting tools
- Data export

SP-200: Single channel, transportable potentiostat

Perfect for corrosion with the 100 fA accuracy ultra-low current option

Voltage: ±10 V.
Current: ± 500 mA down to 100 pA
EIS: Up to 7 MHz

A research grade, potentiostat/galvanostat that does not substitute value for quality.

- 100 fA accuracy: perfect for all applications but especially corrosion/electro analysis
- High-specification: features floating mode, analog filtering and built-in calibration board
- Standard DC potentiostat, Ultra-Low Current (ULC) and EIS options available
- Compact footprint: perfect for *in-situ* measurements

SP-240: A powerful, research-grade, potentiostat

Offering a current range of up to 4 Amps.

Voltage: ±10V. –[3;14]V with booster.
Current: ± 4A down to 100 pA
EIS: Up to 7 MHz

Design for battery testing or electrolysis with embedded 4 A booster

- Current range of up to 4 Amps
- Outstanding specification: floating mode, analog filtering, a built-in calibration board, and 9 stability bandwidths for improved cell control
- Standard DC potentiostat, Ultra-Low Current (ULC) and EIS options available
- Compact footprint: perfect for *in-situ* measurements

...and the ability to get more out of your experiment

Energy-specific features

- <2 µs switching time from Potentiostat to Galvanostat
- Manage 3 electrode cell/control between positive and negative
- Safety limits
- C-rate calculation and use in next technique

Advantages

- Higher-quality measurements
- Online processed data
- Easier management of long-term experiments
- Easier set-ups

Ethernet capable/Buffer

- Facilitate group-working. Share instruments and experiments on your local area network (LAN)
- Built-in buffer protects precious experimental data against PC crashes or electrical blackouts
- Easier management of long-term experiments
- Safer/more reliable data transfer

Overview.

ENERGY STORAGE & CONVERSION
Batteries
Fuel cells & electrolyzers
Supercapacitors
Photovoltaics
Redox Flow Batteries
RESEARCH ELECTROCHEMISTRY
Analytical Electrochemistry
Sensors
CORROSION
MATERIAL SCIENCE

Single channel **Premium** is a range of high-performance, high modularity instruments with 7 MHz capability and Quality Indicators for advanced EIS research. Ethernet-connectivity facilitates group working and increased dynamic range enables high-precision scanning of current/voltage frequencies.

Premium instruments are designed for the most demanding needs of academia and industry. Built around a modular design the SP-200, SP-240 and SP-300 will grow with your research needs and help you expand new scientific frontiers.

Specification	SP-200	SP-240	SP-300
Max channel	1	1	2
Max current	500 mA 120 A with 4 HCV-3048	4 A 120 A with 4 HCV-3048	500 mA (up to 10A with internal booster) 120 A with 4 HCV-3048
EIS Quality Indicator	Yes	Yes	Yes
EIS	Up to 7 MHz	Up to 7 MHz	Up to 7 MHz

Innovation is engrained in our commercial DNA.
The first multi-channel computer-controlled potentiostat (MacPile, 1991), Ethernet connectivity and Embedded EIS are just some of the BioLogic innovations helping scientists around the globe. Our high-quality, high-performance instruments have been designed to withstand the rigors of time and the laboratory and give scientists increased freedom, flexibility and creativity. **www.biologic.net/about us**

www.biologic.net

Shaping the future.
Together.

Brochure EC-BR-034-b released on March 2020 - Specifications and pictures subject to change.