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Product Catalog

Electrochemistry & Spectroscopy Solution for Research Excellence

ABOUTUS

ScienceGears Pty Ltd is an Australian-based scientific instrumentation distributor dedicated to empowering researchers with advanced solutions in electrochemistry and spectroscopy.

Founded by experienced researchers and industry professionals, ScienceGears partners with leading global manufacturers to deliver world-class instrumentation, application expertise, and training to laboratories and research organisations across Australia and New Zealand.

Our portfolio spans potentiostats/galvanostat, battery cyclers, spectroscopy systems (Raman, LIBS, NIR), electrochemical test cells, electrodes, and accessories — covering applications from energy storage, catalysis, and corrosion studies to biosensing, photovoltaics, and materials research.

At ScienceGears, we believe in more than just supplying instruments. We provide end-to-end support, including:

- Tailored product recommendations for specific research needs
- Application and technical support backed by real-world research experience
- Reliable after-sales service and training to help you get the most out of your instruments

Our mission is to be a trusted partner for researchers and engineers, offering cutting-edge tools that accelerate innovation in academia and industry alike.

"ScienceGears — Your Partner in Research Excellence"

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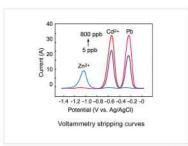
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Portable Potentiostat

CS100 Series Portable Potentiostats (CS100E with EIS / CS100 without EIS)

The CS100 Series brings high-performance electrochemical testing into a truly portable format. Compact, lightweight, and battery powered, these potentiostats are designed for both field use and laboratory research. The rugged build ensures reliable operation even outside controlled lab environments, while USB and Bluetooth connectivity provide flexible data transfer and remote control options.





Parameter	Specifications	
Maximum Output Current	±100 mA	
Maximum potential control	±10 V	
Compliance voltage	±10 V	
Potential resolution	1 μV	
Current sensitivity	1 pA	
EIS frequency range (CS100E)	10 μHz - 1 MHz	
Power supply	Built-in Li-ion battery (10 Ah @ 3.7 V) or USB-powered	
Communication ports	USB / Bluetooth	

- Compact & Field-Ready Small (150 × 90 × 30 mm, ~500 g) and robust design, powered by a 10 Ah Li-ion rechargeable battery.
- Wireless & USB Connectivity Supports both USB and Bluetooth, with an Android APP for portable operation.
- High Sensitivity Detects currents down to 1 pA with 1 μV potential resolution.
- Electrochemical Impedance Spectroscopy (EIS) Available on the CS100E model, covering a broad frequency range of 10 μHz to 1 MHz
- ◆ Research Applications Ideal for biosensor development, corrosion monitoring, battery and fuel cell analysis, environmental studies, and food/drug testing
- Research Applications Ideal for biosensor development, corrosion monitoring, battery and fuel cell analysis, environmental studies, and food/drug testing
- ◆ Advanced Software CS Studio software enables multi-graph visualization, automated test protocols, and detailed analysis including corrosion rate, Tafel slopes, polarization resistance, and EIS fitting

Portable Potentiostat

ECStat2020 Electrochemical Workstation

The ECStat2020 is a versatile electrochemical station built for multi-technique analysis in research and teaching labs. With a wide current and voltage range, high measurement resolution, and robust software support, it covers both routine electrochemistry and advanced material investigations.

Applications: Batteries, fuel cells, corrosion testing, electrocatalysis, biosensors.





Parameter	Specifications	
Potential control range	±10 V	
Current range	nA – 1 A (configurable)	
Compliance voltage	±12 V	
Techniques supported	CV, LSV, SWV, DPV, CA, CP, OCP, EIS	
Frequency range (EIS)	10 μHz - 1 MHz	
Resolution	1 μV / 1 pA	
Connectivity	USB / LAN	
Software	ECStat Studio with automation & analysis	

- ◆ USB connection for both power and data transfer eliminating bulky external power supplies.
- Operated through MicruX EC Manager software, offering an intuitive interface and advanced control options.
- Frequency Response Analyzer (FRA/EIS) covering a wide spectrum from 10 μHz up to 1 MHz.
- Access to more than 25 powerful electroanalytical methods, including voltammetry, amperometry, potentiometry, and impedance spectroscopy.
- Broad compatibility with screen-printed electrodes (SPEs), thin-film electrodes, and multiple electrochemical platforms.
- Supplied in a **protective carry case**, complete with accessories and software, ready for plug-and-play integration with any computer system.

Portable Potentiostat

ECSens Bipotentiostat Interface

The ECSens Bipot is a dual-channel electrochemical sensing interface designed for biosensing and portable diagnostics. With low-noise current measurement, dual working electrode control, and smartphone compatibility, it supports next-generation electrochemical sensor

Applications: Disposable sensor platforms, point-of-care testing, food/drug analysis, and academic teaching





Parameter	Specifications
Channels	2 (independent working electrodes)
Potential control range	±2 V
Current ranges	pA – mA (auto-ranging)
Resolution	1 µV / 1 pA
Supported modes	Amperometry, voltammetry, chrono techniques
Connectivity	USB / Bluetooth
Power supply	Rechargeable Li-ion / USB powered
Software / App	ECSens software + mobile app support

- ◆ Ultra-miniature device At just 39 x 17 x 9 mm, ECSens delivers robust performance in a pocket-sized form factor for versatile laboratory and field use.
- ◆ Effortless power and connectivity Powered and interfaced via USB for seamless integration with computers or compatible Android smartphones, simplifying setup and portability.
- Versatile electrochemical measurements Operates as both a bipotentiostat and potentiostat (multi-channel mode supported), supporting potential ranges of ±1.5 V and currents from 0.25 μA to 12.5 mA (maximum ±5 mA).
- ❸ Broad electrode compatibility Designed for screen-printed electrodes (SPE), making it ideal for standard and custom sensor experiments.
- ◆ Complete accessory package Includes all necessary cables, connectors, and software for hassle-free interfacing and operation out of the box.
- ◆ Electroanalytical methods Supports essential voltammetric and amperometric analysis in both standard and BIPOT modes for advanced investigative flexibility.



Explore our precision instruments designed for electrochemical and spectroscopy research across energy and scientific applications.

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