



885

Fuel Cell Potentiostat

Integrated Potentiostat for Fuel Cell Test Systems

The 885 Potentiostat is designed for automation of CV/LSV testing when combined with Scribner's test systems.

The 885 features

- Integrated potentiostat for 840 / 850 / 855 Series Fuel Cell Test Systems / 890 Series Fuel Cell Test Loads
- 3 current ranges for maximum flexibility and current accuracy (20 mA, 200 mA, 2 A)
- Sweep function for CV and LSV measurements
- Automated switching between load and potentiostat operation
- Combine with the 850 Auto Multigas Unit for automated switching between normal fuel cell operation and diagnostic mode (CV/LSV)
- Perform automated experiments within FuelCell®
- No need to swap cell leads to use potentiostat functions
- Voltammetry for in-situ fuel crossover & electrochemical surface area measurement
- Potentiostatic mode for electrode and catalyst support durability test
- Fine current resolution for high accuracy Tafel experiments
- Quick & easy Installation
- Data analysis with FCView® and CView™ software

Software



Experiment setup



885 combined with 850e



Data Analysis

www.scribner.com



SPECIFICATIONS: 885 Fuel Cell Potentiostat

Cell Connections:

Cell Connections	2, 3 or 4 terminal
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Working Electrodes:

Current Ranges	2 A, 200 mA, 20 mA
Resolution	122 μ A (2 A FS) to 1.22 μ A (20 mA FS)

Counter Electrode:

Output Voltage vs. WE	± 3 V
Current	± 2 V (short circuit protected)

Reference Electrode:

Type	Differential w/driven shields
Input V range	-3 to +3 V
Differential V range	-3 to +3 V
Resolution	152 μ V
Capacitance	150 pF
Limit of Error	0.3% of reading + 3 mV

DC Polarization:

Voltage Range	-3 V to +3 V
Limit of Error	.25%
Resolution	125 μ V

Sweep Functions:

Scan Rates	1 mV/sec to 1 V/sec
Data Acquisition Speed	100 points/sec

Specifications for 25 °C ambient temperature unless otherwise noted.