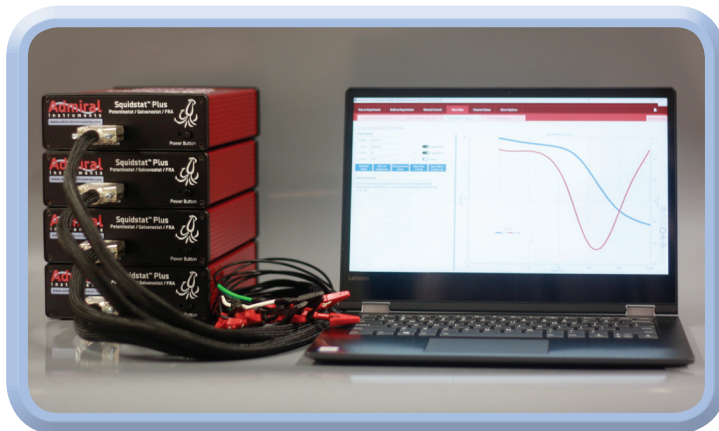


### Test Methods

- CC-CV Charge / Discharge
- Constant Load Discharge
- Constant Power Discharge
- Impedance Spectroscopy (EIS)
- PITT & GITT
- Cyclic Voltammetry
- Current & Voltage Pulsing
- Open Voltage
- And Many More!



### Insightful Results

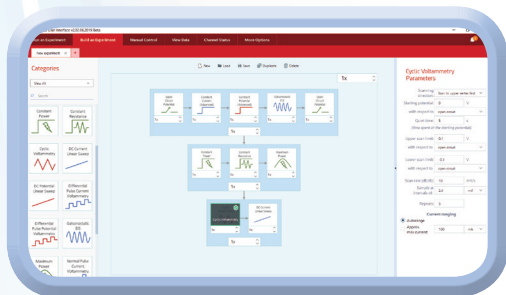
- State of Charge (SOC)
- State of Health (SOH)
- Depth of Discharge (DOD)
- Coulombic Efficiency
- Cyclic Efficiency
- Internal Resistance
- Fault Diagnosis
- Diffusion Constants
- Redox Mechanisms

### Our Three Key Advantages

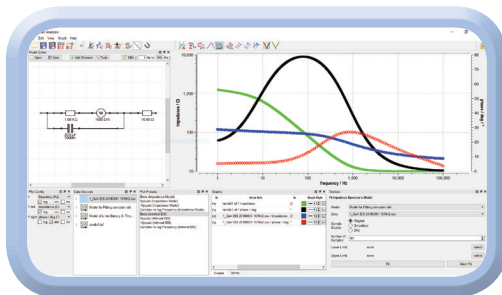
Reduce Cost by +50% | Compact Hardware | Easy-to-use Software



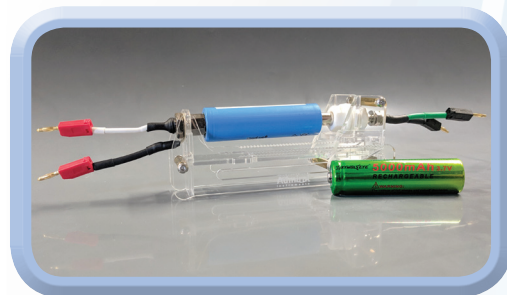
### Drag-and-Drop Custom Experiment Builder



### Innovative Modeling & Analysis Software



### Multipurpose Battery Test Fixtures



## Squidstat Plus



## Squidstat Prime



## Squidstat Ace



## Squidstat Solo



### General

Instrument Model Name	Squidstat Plus	Squidstat Prime	Squidstat Ace	Squidstat Solo
Channels Per Unit	1	4	1	1
Multiple Unit Expansion	Supports up to 128 units per computer (all independently controllable)			
Operating Modes	Pot / Gal / ZRA / FRA	Pot / Gal / ZRA	Pot / Gal / ZRA	Pot / Gal / ZRA
Cell Connections	2, 3, 4, or 5 electrode			
ADC/DAC Resolution	16 bit resolution	16 bit resolution	16 bit resolution	16 bit resolution
Slew Rate (No Load)	5 MV/s	4.2 kV/s	5 MV/s	4.2 kV/s
Maximum Sampling Speed	100,000 samples/s	1,000 samples/s	100,000 samples/s	1,000 samples/s
Floating and/or Earth-grounding	Both (Switchable)	Floating	Both (Switchable)	Floating
Input Impedance	> 10 Tera-ohm	100 Giga-ohm (typical)	> 10 Tera-ohm	100 Giga-ohm (typical)
Input Bias Current	< 1 pA	200 pA (typical)	< 1 pA	200 pA (typical)
Data Backup Memory (Onboard)	16 GB	16 GB	16 GB	16 GB
Physical Dimensions	24 cm x 17 cm x 6 cm	31 cm x 16 cm x 8 cm	24 cm x 17 cm x 6 cm	22 cm x 16 cm x 8 cm
Channel Cable Length	90 cm	180 cm	90 cm	180 cm
PC & Mac Computer Interface	1 USB 2.0 port (or higher) per unit			
Power Supply Requirements	100 – 240 VAC, 50 – 60 Hz	100 – 240 VAC, 50 – 60 Hz	100 – 240 VAC, 50 – 60 Hz	100 – 240 VAC, 50 – 60 Hz

### Potentiostatic Input/Output

Compliance Voltage	±12 V per channel	±10 V per channel	±12 V per channel	±10 V per channel
Scan Range (Controlled Voltage)	1 range, ±10 V	1 range, ±10 V	1 range, ±10 V	1 range, ±10 V
Applied Potential Accuracy	0.1% of setpoint, 2 mV max accuracy			
Applied Potential Resolution	300 µV	300 µV	300 µV	300 µV
Measured Potential Accuracy	0.1% of setpoint, 1 mV max accuracy			
Measured Potential Resolution	300 µV	300 µV	300 µV	300 µV

### Galvanostatic Input/Output

Maximum Current	±1 A	±100 mA	±1 A	±100 mA
Current Ranges	8 ranges (100 nA to 1 A)	4 ranges (10 µA to 100 mA)	8 ranges (100 nA to 1 A)	4 ranges (10 µA to 100 mA)
Applied Current Accuracy	0.2% of range, 1 nA max	0.2% of range, 20 nA max	0.2% of range, 1 nA max	0.2% of range, 20 nA max
Applied Current Resolution	0.003% of range, 3 pA max	0.02% of range, 2.5 nA max	0.003% of range, 3 pA max	0.02% of range, 2.5 nA max
Measured Current Accuracy	0.1% of range, 100 pA max	0.1% of range, 10 nA max	0.1% of range, 100 pA max	0.1% of range, 10 nA max
Measured Current Resolution	0.003% of range, 3 pA max	0.004% of range, 0.4 nA max	0.003% of range, 3 pA max	0.004% of range, 0.4 nA max

### Impedance Analyzer

AC Frequency Range for EIS	10 µHz to 1 MHz	Not Applicable DC Measurements Only	Not Applicable DC Measurements Only	Not Applicable DC Measurements Only
AC Frequency Accuracy	0.005% or better			
AC Frequency Resolution	0.0004%, 3 µHz max			
Potentiostatic Amplitude	≤ 10% of range, 1 V max			
Pot. Amplitude Resolution	240 µV, 12 bit resolution			
Galvanostatic Amplitude	≤ 10% of range, 100 mA max			
Gal. Amplitude Resolution	0.002% of range, 2.4 pA max			

## Squidstats are PC and Mac Compatible