ArrayPGstat Specifications

Chassis	
	Accommodates up to five 5-channel boards
Data Acquisition	National Instruments USB-6229 DAQ
Acquisition Speed	250 k samples/s (Aggregate) 9.25 kS/s/ch. (for 25 channels)
DAC Resolution	16 bits

5-Channel Board	
Cell Control	
Compliance Voltage	±15V
Max Output Current	±65mA max per Ch.
Rise Time	45 uS for 1k Ohm load (0%-100% signal)
Slew Rate	0.2 V/µs
Bandwidth	8 kHz (-3 dB, 1k Ohm load)
Applied DC Potential Ranges	1 (±10 V)
Applied Potential Resolution	0.3 mV
Applied Potential Accuracy	< 0.04% Full Scale Range (FSR)
Current Autoranging	Yes
Applied DC Current Ranges	2 (±250µA , ±65mA)
Best Applied Current Resolution	3 nA, 0.003% of FSR
Applied Current Accuracy	0.03% of FSR
Input Bias Current	500 pA
Input Impedance	$250~\text{G}\Omega$ parallel to $3~\text{pf}$
Maximum Update Rate	4 µs
Maximum Scan Rate	100V/sec



Key Benefits:

- Multichannel potentiostat galvanostat
- Channels can be operated in parallel or in series
- Individual, row-by-row, or simultaneous channel evaluation
- Ideal for battery testing, electrode characterization, and other electrochemical applications















rrayPGstat Specifications

(Continued)

Potential Measurement	
Measured DC Potential Ranges	1(±10 V)
Resolution	$3~\mu V,300~\mu V~$ (0.006%, 0.003% of FSR)
Accuracy	0.08 or 0.03% of FSR
Current Measurement	
Measured Current Ranges	Potentiostat: 2 (± 250uA, ± 65 mA)
Potentiostat Min to Max	80nA to 65mA
Best Resolution	Galvanostat: 80 nA (0.003% of FSR) Potentiostat: 80 nA - 20 µA (0.06 - 0.003% of FSR In Order of Range)
Accuracy	Galvanostat: 0.03% of FSR; Potentiostat: 0.3 - 0.03% of FSR Depending on Range

Features:











About Nuvant Systems Inc.

NuVant Systems is a worldwide provider of electrochemical instrumentation for academicians, industries, and national laboratories. We customize electronics for analysis, reconditioning and de-energizing of batteries for aftermarkets, repurposing, and end-of-life recycling. NuVant empowers small businesses and large vehicle fleets to improve energy storage device lifecycles, bringing electrochemistry to the streets. By integrating electronics and chemistry, we offer a scientific approach to success in the renewable energy market.















