

EZstat-Pro Specifications

General Cell Control

Compliance Voltage	±25V
Max Output Current	±1 A
Rise Time	45us for 1 Ohm load (0%-100% signal)
Bandwidth	10kHz (-3 dB, 1 Ohm Load)
Input Impedance	250 GOhm parallel to 3 pF
Max Update Rate	1.2 us
IR Compensation	Manual, 1A range

Potentiostat Mode Control

Applied DC Potential Ranges	1 (±10V)
Applied Potential Resolution	0.3mV
Applied Potential Accuracy	<0.04% FSR
Slew Rate	0.2 V/us
MAX scan rate	500 V/s
Input Bias Current	1 pA

Potentiostat Mode Current Measurement

Current Ranges	4(±1uA, ±100uA, ±10mA, ±1A)
Potentiostat Min to Max	20nA to 1A
	30uA at ±1A
	.37uA at ±10mA
Best Current Resolution	3.7nA at ±100uA
	37pA at ±1uA
Best Current Accuracy	0.3 - 0.03% of FSR Depending on Range

Galvanostat Mode Control

Applied DC Current Ranges	4(±1uA, ±100uA, ±10mA, ±1A)
Best Applied Current Resolution	37pA, 0.003% FSR
Applied Current Accuracy	0.3 - 0.03% of FSR Depending on Range

Galvanostat Mode Potential Measurement

Potential Ranges	1 (±10V)
Best Potential Resolution	0.3mV
Accuracy	0.03% FSR

EIS Measurement

Frequency Range	10mHz - 10kHz
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Potentiostat Mode

Max Applied AC amplitude	20mV
AC Applied Potential Resolution	0.6uV
Min Applied AC amplitude	60uV
	30uA at $\pm 1A$
AC Current Best Resolution	.37uA at $\pm 10mA$
	3.7nA at $\pm 100uA$
	37pA at $\pm 1uA$

Galvanostat Mode

Max AC amplitude	maximum selected current range
	30uA at $\pm 1A$
AC Applied Current Resolution	.37uA at $\pm 10mA$
	3.7nA at $\pm 100uA$
	37pA at $\pm 1uA$
AC Voltage Range	1 ($\pm 10V$)
AC Voltage Best Resolution	300uV

iR Compensation

Mode:	Current interrupt
Min Interrupt time:	8us
Max Interrupt time:	800s

AUX inputs outputs

Analog Input for AUX Potentiostat Control	$\pm 10V$
2 Digital Outputs	$\pm 10mA$ MAX current sink
Thermocouple input	2
Frequency counter	1
External Trigger Input/Output	1

Data Acquisition

Acquisition Speed	250 k samples/s (Aggregate) 125 k samples/s/ch. (min 2 channels)
DAC Resolution	16 bits