

EZstat-Pro LC Specifications

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|---------------------------------|---|
| Cell Control | |
| Compliance Voltage | ±25 V |
| Max Output Current | ±10 mA |
| Rise Time | 45 µs for 1 Ohm load (0%-100% signal) |
| Slew Rate | 0.2 V/µs |
| Bandwidth | 8 kHz (-3 dB, 1 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 | In Galvanostat Mode |
| Applied DC Current Ranges | 4 (±1 µA, ±10 µA, ±100 µA, ±10 mA) |
| Best Applied Current Resolution | 40 pA, 0.004% of FSR |
| Applied Current Accuracy | 0.04% of FSR |
| Input Bias Current | 500 pA |
| Input Impedance | 250 GΩ parallel to 3 pf |
| Maximum Update Rate | 4 µs |
| Maximum Scan Rate | 100 V/s |
| IR Compensation | None, Low Current Device |
| External Control | 1 AO, 1 AI, 2 DO |
| Potential Measurement | |
| Measured DC Potential Ranges | 2 (±50 mV, ±10 V) Autoranging |
| Resolution | 3 µV, 300 µV (0.006%, 0.003% of Full Scale Range) |
| Accuracy | 0.08 or 0.03% of Full Scale Range |
| Current Measurement | |
| Measured Current Ranges | Galvanostat: 4 (±1 µA, ±10 µA, ±100 µA, ±10 mA) Potentiostat: 4 (±1 µA, ±10 µA, ±100 µA, ±10 mA) |
| Potentiostat Min to Max | 3 nA to 10 mA |
| Best Resolution | Galvanostat: 40 pA (0.004% of Full Scale Range) Potentiostat: 40 pA (0.004% of Full Scale Range) |
| 3 σ Coverage Factor Accuracy | Galvanostat: 0.04% of Full Scale Range Potentiostat: 0.04% of Full Scale Range |
| Data Acquisition | |
| Acquisition Speed | 250 k samples/s (Aggregate) 125 k samples/s/ch. (min 2 channels) |
| DAC Resolution | 16 bits |

http://nuvant.com/products/potentiostat_galvanostat/ezstats-series/