

**Specifications for Computer Controlled
(Potentiostat / Galvanostat / ZRA with Impedance Analyzer)**

1. Applied Voltage Range : ± 10 V or above
2. Compliance Voltage : ± 20 V or above
3. Current Range (without gain) : ± 100 pA (or less) to ± 500 mA (or more)

Please Note:

i) Should specify lower current ranges when internal gain is considered.

ii) Require in-built lower current range i.e. no external add on for low current option.

4. Frequency Range : 10 μ Hz-1 MHz
5. Mode : Potentiostatic / Galvanostatic / Zero Resistance Ammeter.
6. AC Amplitude : 10 μ Vrms (or less) -2Vrms (or more)
7. Minimum Current Resolution : <0.05 fA
8. Minimum Voltage Resolution : 1 μ V
9. Electrode Configuration : 2,3,4 terminals
10. Data Acquisition Rate : 100,000 samples / sec or more
11. Interface : USB / Ethernet.

Software Techniques Required

DC Corrosion Techniques:

Corrosion potential, Tafel Plots, Polarization Resistance, Linear / Cyclic polarization, Critical Pitting Potential, Potentiodynamic plots, Potentiostatic, Galvanostatic, Galvanodynamic, Galvanic Corrosion etc.

Impedance:

Potentiostatic EIS, Galvanostatic EIS, Single Frequency EIS, Mott-Schottky etc.

Accessories Required:

1. Corrosion Cell, Reference Electrode

Warranty: At least 1 year

Please Note: Technical & Price Bid to be given separately.