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PR No. 1000032421 (Rfx No. 6100001418)

Detailed Technical Specifications for Potentiometric Titrator with Necessary electrode:

<ul style="list-style-type: none">• Multichannel Potentiometric Titrator with Three Independent Channels or Better to measure redox reaction
<ul style="list-style-type: none">• Provision of Validation and Calibration should be available onsite
<ul style="list-style-type: none">• Potentiometric Connections: 2, 3, 4, 5 Terminals (+ ground) or better• Potentiometric voltage: ± 12 V or better• Applied and Measured Potential: ± 10 V or better per• Maximum Measured Current: ± 500 mA or better at ± 10 V• Current Ranges: ± 1 pA to 500 mA or better in atleast one channel and ± 10 nA to 500 mA in other channels• Accuracy of applied and measured current: ± 0.1 % Full scale range or better• Resolution of applied potential: 1μV or better• Potential accuracy: 0.1 % of Full-scale range or better• Current accuracy: ± 100 fA or better• Min Measured current resolution: 80 aA on lowest current range• Rise/fall Time: < 500 nS or better• EIS Frequency range: 10μHz to 7 MHz or better• Impedance accuracy of 1% & 1° at 1Hz• Input Impedance: 100 TΩ or better• Input bias current: 20pA or better• AC Amplitude: 0.5mV – 2.5 V• Floating mode should be available• Interface for connection with PC: Ethernet LAN• Local Area Network to access Multiple Computers• Possibility to upgrade to high current up to 30 A• Provision to Record/Measure and control Ewe (potential difference between Working and reference) and Ece (potential difference between Counter and Reference) simultaneously in one experiment and in real time• Electrochemical Impedance Spectroscopy recording between Ewe and Ece simultaneously in one experiment
<ul style="list-style-type: none">• Titrator Cell (20-50ml): 3 nos.• Electrodes: (1 no. each)<ol style="list-style-type: none">1. Ag/AgCl (length: 80mm OD: 6 mm)2. Platinum electrode (5 cm - wire diameter 0.5mm)3. Glassy carbonelectrode (OD: 6 mm – ID: 3.0 mm)
<ul style="list-style-type: none">• One Years Standard Warranty after installation and commissioning