

HEFASTAT ECM100E DEVICE SPECIFICATIONS

<i>System</i>	<i>ECM100E</i>
Cell Connections	2,3 or 4 electrode
Min Current	10 nA
Max Current	100 mA
Current Steps	7
Min Potential Step	19.1 μ V
Potential Scan Range	± 12 V
Min Measured Potential Resolution	5.7 μ V
Measured Potential Accuracy	$\pm 10 \mu\text{V} \pm 0.2\%$ of range
Min Applied Potential Resolution	19.1 μ V
Applied Potential Accuracy	$\pm 180 \mu\text{V} \pm 0.2\%$ of range
Min Measured Current Resolution	300 fA
Measured Current Accuracy	$\pm 20\text{pA} \pm 0.3\%$ of range
Min Applied Current Resolution	3 pA
Applied Current Accuracy	$\pm 20\text{pA} \pm 0.5\%$ of range
<i>Control Amplifier</i>	
Compliance Voltage	± 12 V
Output Current	$> \pm 200\text{mA}$
Unity Gain Bandwidth	1 MHz
<i>Electrometer</i>	
Input Impedance (CM)	$> 10^{13} \Omega$
Input Leakage Current (typical)	$< 20\text{pA}$
Bandwidth (typical)	$> 5 \text{ MHz}$
<i>EIS</i>	
Scan Range	10 μ Hz – 1 MHz