

HEFASTAT ECM100A DEVICE SPECIFICATIONS

<i>System</i>	<i>ECM100A</i>
Cell Connections	2,3 or 4 electrode
Min Current	1 nA
Max Current	1A
Current Steps	9
Min Potential Step	5 μ V
Potential Scan Range	± 15 V
Min Measured Potential Resolution	1.8 μ V
Measured Potential Accuracy	$\pm 20 \mu\text{V} \pm 0.3\%$ of range
Min Applied Potential Resolution	4.8 μ V
Applied Potential Accuracy	$\pm 25 \mu\text{V} \pm 0.3\%$ of range
Min Measured Current Resolution	40 fA
Measured Current Accuracy	$\pm 20\text{pA} \pm 0.3\%$ of range
Min Applied Current Resolution	1 pA
Applied Current Accuracy	$\pm 5\text{pA} \pm 0.3\%$ of range
<i>Control Amplifier</i>	
Compliance Voltage	± 17 V
Output Current	$> \pm 1$ A
Unity Gain Bandwidth	1 MHz
<i>Electrometer</i>	
Input Impedance (CM)	$> 10^{13} \Omega$
Input Leakage Current (typical)	< 5 pA
Bandwidth (typical)	> 10 MHz
<i>EIS</i>	
Scan Range	10 μ Hz – 1 MHz