

Potentiostat Overview



	WaveNow general purpose	WaveNano low current	WaveNow^{EV} extended voltage	WaveDriver 10 advanced design	WaveDriver 20 bipotentiostat
Applied/Measured Current Limit	±80 nA to ±100 mA	±100 pA to ±1 mA	±80 nA to ±100 mA	±100 nA to ±1 A	±100 nA to ±1 A
Current Ranges	Four	Four	Four	Eight	Eight
Current Autoranging	Yes	Yes	Yes	Yes	Yes
Applied/Measured Voltage Limit	±4 V	±4 V	±10 V	±2.5 V, ±10 V	±2.5 V, ±10 V
Speed/Stability Settings	3	3	3	9	9
Voltage Autoranging	Yes	Yes	Yes	Yes	Yes
Compliance Voltage	±12.5 V	±12.5 V	±12.5 V	±16.5 V	±16.5 V
iR Compensation	No	No	No	Yes	Yes
Working Electrodes Channels	One	One	One	One	Two
Scan Rate (Minimum/Maximum)	10 μV/s, 10 V/s	10 μV/s, 10 V/s	10 μV/s, 10 V/s	10 μV/s, 125 V/s	10 μV/s, 125 V/s
DAC/ADC Resolution	16 bit	16 bit	16 bit	16 bit	16 bit
Minimum Point Interval	1000 μs	1000 μs	1000 μs	80 μs	80 μs
Software	AfterMath	AfterMath	AfterMath	AfterMath	AfterMath
Interface	USB	USB	USB	USB	USB
Rotator Control	Yes	Yes	Yes	Yes	Yes

All specifications are subject to change at any time without prior notification.

Cost-effective yet powerful systems for teaching and research.

Supported Electrochemical Methods



aftermath
DATA ORGANIZER

Basic Methods

- Open Circuit Potential (OCP)
- Bulk Electrolysis (BE)

Potentiostatic Methods

- Chronoamperometry (CA)
- Double Potential Step
- Chronoamperometry (DPSCA)
- Cyclic Step Chronoamperometry (CSCA)

Galvanostatic Methods

- Chronopotentiometry (CP)
- Ramp Chronopotentiometry (CRP)
- Staircase Potentiometry (SCP)
- Cyclic Step Chronopotentiometry (CSCP)

Voltammetric Methods

- Cyclic Voltammetry (CV)
- Linear Sweep Voltammetry (LSV)
- Staircase Voltammetry (SCV)
- Differential Pulse Voltammetry (DPV)
- Square-Wave Voltammetry (SWV)
- Normal Pulse Voltammetry (NPV)

Stripping Voltammetry

- Stripping Voltammetry (ASV)
- Differential Pulse Stripping Voltammetry (DPSV)
- Square Wave Stripping Voltammetry (SWSV)

Spectroelectrochemical Methods*

- Spectroscopy (SPEC)
- Spectroelectrochemistry (SPECE)

Rotating Methods*

- Rotating Disk Voltammetry (RDE)
- Rotating Disk Koutecky-Levich Series (KL-RDE)
- Rotating Disk Electrolysis (BE-RDE)
- Rotating Disk Chronopotentiometry (CP-RDE)
- Rotating Disk Ramp Chronopotentiometry (RCP-RDE)

Dual Electrode Methods*

- Dual Electrode Electrolysis (DEBE)
- Dual Electrode Voltammetry (DECV)

Corrosion Methods*

- Linear Polarization Resistance (LPR)
- Rotating Cylinder Voltammetry (RCE)
- Rotating Cylinder Electrolysis (BE-RCE)
- Rotating Cylinder Eisenberg Study (EZB-RCE)
- Rotating Cylinder Polarization Resistance (LPR-RCE)
- Rotating Cylinder Open Circuit Potential (OCP-RCE)
- Rotating Cylinder Chronopotentiometry (CP-RCE)
- Rotating Cylinder Ramp Chronopotentiometry (RCP-RCE)

Software & Interface Cable (included)

Software: Pine AfterMath™ Data Organizer
Interface Type: USB 2.0
Cable: USB A / B cable

Minimum Host PC Requirements (not included)

Operating System: Windows 8, 7, Vista, XP (32 bit)
Processor Class: ≥ Pentium IV
Processor Speed: ≥1 GHz
Physical Memory: 1 GB (32-bit OS), ≥2 GB (64-bit OS)
GUI Platform: Microsoft .NET 2.0
Screen Resolution: 1024 x 768 pixels recommended

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*Select methods require additional software license(s), included with the purchase of a capable instrument.



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