

Limited Availability Used and in Excellent Condition

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ARTISAN'

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Artisan Technology Group

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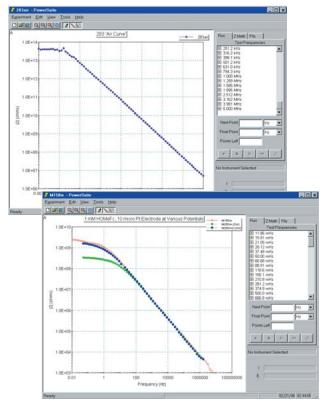
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Raising the Performance Standards

- Computer Controlled Potentiostat/Galvanostat
- 80 V Compliance, 100 mA Current Output
- High-Input Impedance (>10¹³ Ω)
- Low-Input Capacitance (<100⁻¹⁵ F)
- Large Bandwidth (>1 MHz)
- Extremely Sensitive (<10⁻¹⁵ A Resolution)
- 16 V Scan Range
- Fast Scan Capabilities and Data Acquisition Rate (>10 kV/s and 30 µs)
- Two, Three, and Four Terminal Measurements

Potentiostat/Galvanostat

Specfications

Power Amplifier

Compliance Voltage: ±80 V Maximum Current: ±100 mA

Rise Time: <300 ns (No Load, unity gain, 1 V)

Slew Rate: >10 V/µs (No Load)

System Performance

Minimum Timebase: 30 μs Minimum Potential Step: 250 μV Noise and Ripple: <50 μV rms typical Minimum Current Range: 1 nA (hardware)

Minimum Current Range: 10 pA* Minimum Current Resolution: 20 fA

Drift: <50 μV/°C

iR Compensation Positive Feedback

Range: $2 G\Omega$ to 20Ω depending on current

range

Resolution: 0.05% of current range

Current Interrupt

12 Bit DAC Potential Error Correction Total Int. Time: $<10 \mu s$ – $2000 \mu s$

Current Measurement

Ranges: 9 decades, 100 mA to 1 nA

Accuracy (dc) at Monitor

100 nA to 100 mA: 0.2% Full Scale

1 nA and 10 nA Ranges: 2% Full Scale, ±5 nA

Frequency Response (small signal)

1 mA Range: -3 dB at >2 MHz, $1k\Omega$ source

impedance

1 μ A Range: -3 dB at > 200 kHz, 1 M Ω source

impedance

Computer Interface

GPIB IEEE-488

RS-232

Differential Electrometer

Input Bias Current: <10 pA at 25°C

Max. Voltage Range: ±12 V

Max. Input Voltage Differential: ±10 V

Bandwidth: -3 dB at >9 MHz Offset Voltage: <100 μ V

Offset Temperature Stability: <50 µV/°C

Common Mode Rejection: >80 dB at 100 Hz > 60 dB at 1 MHz

Input Impedance: >10¹³ Ω , typically 10¹⁴ Ω in parallel

with <5 pF, typical <1 pF

Potential/Current Control

Digital/Analog Converters (DACs)

Bias DAC

Resolution: 14 bits

Range (Potentiostat): ±8 V

Modulation DAC

Resolution: 16 bits

Range (Potentiostat): ±8 V, ±0.8 V, ±0.08 V Range (Galvanostat): ±200%, ±20.00%, ±2.00%

Accuracy

Applied Potential: 0.2% of reading ±2 mV

Dimensions

17.0" L x 10.3" H x 20" D

40 lbs. (18.2 kg)

Power Requirements

90-130 V ac or 200-260 V ac, 50-60 Hz,

125 Watts Maximum

*This sensitivity is achieved through our proprietary application software

Specifications subject to change 092503



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