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CV-50W Voltammetric Analyzer



The BAS model CV-50W Voltammetric Analyzer is an electrochemical instrument capable of performing 14 standard controlled-potential techniques under simple point-and-click operation. It is ideal for demonstrating basic electrochemistry in undergraduate and graduate teaching labs and doing routine electroanalysis in industrial or government labs. Though designed for rugged, everyday use, the CV-50W's capabilities are not compromised. It is surpassed only by the BAS 100B/W Electrochemical Analyzer as a versatile research tool.

Operation is easy.

All experimental control parameters are entered through the BAS Windows interface. This information is transferred to the CV-50W's microprocessor, where the specified waveform is generated, optimum hardware parameters are determined and fixed, and data acquisition and storage protocols are established and implemented. On the user's command, data is collected and transmitted to the PC, where it is displayed in near real-time. Subsequent data processing depends on the chosen technique and the results desired. This includes:

- digital smoothing
- peak or wave height determination (automatic or manual) linked to quantitative analysis software (calibration or standard addition curves)
- transformation (the Anson and Cottrell transforms, convolution, deconvolution, math operators, etc.)
- and more.

Data files are graphically presented, stored or output using standard methods under Microsoft Windows.

Ruggedness, ease of use, versatility and upgradability are the sterling attributes of this instrument. Coupling these with a fair price and a complete array of accessories makes the CV-50W the market's performance-to-price leader.

CV-50W Features

- All operations, viewing and printing are controlled through the PC using Microsoft Windows.
- Semi-integration and semi-differentiation (convolution and de-convolution).
- Quantitative analysis.
- Background subtraction.
- Peak potential and current measurement (baselines defined automatically or manually).
- Half-wave and limiting current measurement (baselines defined automatically or manually).
- iR compensation and circuit stability testing.

- Selectable analog filtering (time scales from μs to ms) and digital smoothing (moving average and Savitsky-Golay).
- Standard math operations.
- Linear analysis for chronoamperometry (Cottrell plot) and chronocoulometry (Anson plot) (automatic or manual).

Ordering Information

CV50W	CV-50W Voltammetric Analyzer with software fully installed into BAS-PC
CV51W	Voltammetric Analyzer with software alone
C-3	Optional Voltammetry Cell
CGME	Optional Controlled-Growth Mercury Electrode
DigiSim	Optional Digital Simulation Software
HP	Optional HP Color DeskJet Printer

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CV-50W Specifications

Potentiostat

Output compliance voltage	±10 V minimum
Applied voltage range	-3.276 V to 3.276 V
Minimum potential step size (DAC output)	100 μ V
Absolute accuracy	±2.5 mV
Reference input impedance	$> 10^{11}$ ohm
Output current	190 mA
Rise time	$< 2 \mu$ s
Slew rate	10 V/ μ s minimum
Stability	500 μ V/day maximum
Effects of ±10% input power line variation	100 μ V maximum
Noise and ripple	100 μ V RMS maximum

Current to Voltage Converter

Maximum current 190 mA

Ranges	100 nA/V, 1 μ A/V, 10 μ A/V, 100 μ A/V, 1 mA/V, 10 mA/V, 100 mA/V
Full scale output	± 10 V
Input voltage drift	500 μ V/day maximum
Input current drift	25 pA/day maximum
Conversion rate	20,000 conversions/s
Absolute accuracy	1%
Resolution	0.05% full scale

Charge-to-Voltage Converter

Maximum charge	3.2 mC
Ranges	100 nC/V, 1 μ C/V, 10 μ C/V with Autorange

I/O

Cell controller port	Custom parallel port for control of BAS cells
Data link port	RS-232C serial port for communication with PC

General

Input voltage 100 V, 120 V, 220 V, 240 V AC, 50 or 60 Hz

Input power 720 W maximum

Last Modified: 27/Jun/1996

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