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Find the *Princeton Applied Research DLK-60* at our website: ***Click HERE***

Princeton Applied Research

DLK-60

Electrochemical Analyzer



Trace Metal Analysis — Trace Organic Analysis — Speciation Studies — Cyclic Voltammetry and Chronoamperometry Techniques

As one of the most versatile analytical techniques available, voltammetry serves a broad range of applications. Metals, non-metals, ions and organics can be determined in a wide range of matrices. Because it allows determination of some metals at the parts-per-billion level, voltammetry is often used to analyze food, waste and potable water, pharmaceutical samples and electroplating baths.

The teaching of electroanalytical techniques is another important application for the DLK-60. By combining a selection of the most widely used electrochemical methods with an intuitive software interface and a low cost analyzer, the demonstration of the fundamentals of electrochemistry is now available to every undergraduate laboratory.

Low Cost Option for Teaching and Research Applications

- **Small footprint, computer controlled instrument**
- **Mains or battery-operated**
- **Control and data acquisition via desktop or laptop computer**
- **Both options utilize a plug-in National Instruments A/D – D/A card**
- **Interfaces to solid or dropping mercury electrode system**
- **Windows® software (95/98/NT)**
- **Optional data analysis package available**

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DLK-60
Electrochemical Analyzer

Specifications

Compliance Voltage: ±8 V

Current Range: ± 10 mA, 1 mA, 100 µA, 10 µA, 1 µA, 100 nA

Accuracy: 0.03% of range

Potential Control: ± 2 V with 1 mV resolution

Acquisition Rate: 100 µs/point

I/E Filter: 0–2 ms in eight ranges

Scan Rate: 10 µV–10 V/s

Reference Input Impedance: 10^{12} Ω

Front Panel Features: LED's for Power / Cell On / I & E Overload
Power: On / Off
Cell Switch: On / Remote / Off
BNC Connectors: Working / Reference / Counter

Rear Panel Connections: NI DAQ Acquisition Card
External Power Supply
Cell Stand
I & E Monitor (Option)

Dimensions: 185 mm W x 40 mm H x 340 mm D

Weight: 1050 g

Specifications subject to change
012803

Princeton Applied Research

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