Polarographic Analyzer

Entek Design — Polarography / Voltammetry

DC, sampled DC, pulse and differential pulse polarography

A polarographic analyzer manufactured by Entek Elektronik; a microprocessor-controlled system for trace element and organic compound analysis with DC, sampled DC, pulse and differential pulse techniques. With a current range from 0.02 µA to 10 mA, an electrometer input impedance above 10^{11} Ω and a ±100 V / 20 mA potentiostat output, it is used together with the CGME mercury electrode and the C-4 cell stand.



Application areas

- General electrochemistry
- Sensors and electroanalysis
- Teaching laboratories

Key features

- Initial potential −5 … +5 V, 1 mV resolution; absolute scale accuracy 0.25%
- Scan rate 1 – 500 mV/s; scan range ΔE = 0.75 / 1.5 / 3 V
- Modes: DC, Sampled DC, Pulse, Differential Pulse
- Current range 0.02 µA – 10 mA full scale
- Differential pulse modulation 5 / 25 / 50 / 100 mV
- Drop knocker timer 0.5 / 1 / 2 / 5 s; low-pass filter 0.3 / 3 / 5 s
- Electrometer input impedance > 10^{11} Ω; potentiostat output ±100 V, 20 mA

Technical specifications

Initial potential	−5 … +5 V, 1 mV resolution (linear)
Absolute scale accuracy	0.25%
Scan rate	1 – 500 mV/s (linear)
Scan range	ΔE = 0.75 / 1.5 / 3 V (by polarity)
Control keys	Initial, Hold, Scan, Reverse Scan
Operating modes	DC, Sampled DC, Pulse, Differential Pulse

Current ranges	Full scale 0.02 µA – 10 mA; Y output ±10 V
Modulation amplitude (DP)	5 / 25 / 50 / 100 mV
Drop timer	0.5 / 1 / 2 / 5 s
Low-pass filter	0.3 / 3 / 5 s
Cell selector	Ext. Cell / Off / Dummy Cell (10 kΩ)
Electrometer input impedance	> 10^{11} Ω
Potentiostat output	±100 V, 20 mA; thermal drift max. 50 µV/°C
X-axis recorder output	Full scale +1.5 V
Warranty	2 years

Manufacturer: Entek Elektronik, 1354. (formerly 21.) Cadde No: 32, 06378 İvedik OSB, Yenimahalle / Ankara, Türkiye. Specifications are subject to change without notice; binding values are stated in the written quotation and contract. Installation, training and after-sales support are provided by Entek Elektronik.