

Electrochemical Reader



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Ref. DROPSTAT

- Suitable for many different applications ·
- Custom Instrument for each Researcher ·
- LCD display of analyte concentration ·
- Cards available to modify any parameter ·



For those researchers who have successfully developed an electrochemical sensor, **DropStat** is the perfect tool to demonstrate the **real applicability** of their own developed sensor.

DropStat is a cost-effective, hand-held, single-technique, potentiostat-based custom **electrochemical reader** that is configured attending to researcher's needs, thus allowing to have a **unique instrument** able to show in a LCD screen the concentration of the analyte for which the electrochemical sensor has been developed.

DropStat is **custom configured** with a **voltammetric** or an **amperometric technique** and its specific selected parameters (deposition times, scan rate, potential ranges, step potentials, interval times, etc.), as well as with a **calibration curve**, all according to the specific application developed by the researcher for the analyte detection.

DropStat **automatically measures** the selected electroanalytical curve parameter (peak intensity, peak potential, peak area, etc.) and, according to the calibration curve, displays the corresponding **analyte concentration** in the LCD display.

The user can easily **change any of the parameters** by simply inserting programmed cards that can be provided upon request.

Displayed results are recorded internally and can be downloaded via USB to a PC, using a very easy to use software provided with **DropStat**.

Available techniques*:

LSV	Linear Sweep Voltammetry
CV	Cyclic Voltammetry
SWV	Square Wave Voltammetry
DPV	Differential Pulse Voltammetry
AD	Amperometric Detection

*(DropStat is configured with one of the above techniques, selected by customer, and can be reprogrammed with programming cards.)

Limits of configurable parameters		
Pretreatment	Conditioning time:	1 s to 1200 s
	Deposition time	1 s to 1200 s
	Equilibration time:	1 s to 1200 s
	Conditioning potential:	-2 V to +2 V
	Deposition potential:	-2 V to +2 V
General Parameters	Begin potential:	-2 V to +2 V
	End potential:	-2 V to +2 V
	Step potential:	1 mV to 2 V
	Pulse potential:	1 mV to 2 V
LSV and CV	Scan rate:	1 mV/s to 2 V/s
SWV	Frequency:	1 Hz to 200 Hz
	Amplitude potential:	1 mV to 250 mV
DPV	Scan rate:	1 mV/s to 2 V/s
	Pulse time:	1 ms to 200 ms
AD	Interval time:	0.1 s to 300 s

Instrument Specifications	
• Power	Li-ion battery
• Interface	LCD
• PC Interface	USB
• Potential range	± 2 V
• Maximum measurable current	± 200 μ A
• Current resolution	0.1% of current range
• Potential resolution	1 mV

Specifications are subject to change without previous notice

www.metrohm-dropsens.com