

Ref. STAT400



μStat 400 Bipotentiostat/Galvanostat



uStat 400 is the **portable BiPotentiostat/Galvanostat** from *DropSens* that can be applied for **Voltammetric**, Amperometric or Potentiometric measurements, including 18 electroanalytical techniques, and can be used with one- or two- working electrodes configuration.

The new portable bipotentiostat/galvanostat is Li-ion Battery powered (USB charger adapter compatible). It can be easily connected to a PC via USB, RS232 and Bluetooth®.

µStat 400 has eight current ranges: 1 nA to 10 mA, and Auto (the instrument automatically selects the optimal current range), with a maximum measurable current of 40 mA.

The supplied DropView 8400 software for Windows is used to control the instrument and to plot the measurements and perform the analysis of results. DropView 8400 software provides powerful functions such as:

- manual control of the experiment, for tailoring your electrochemical measurements
- o plot overlay, peak integration, smoothing, subtraction, derivative curve, baseline fitting, etc.
- script editor for programming specific work routines
- peripheral configuration (digital inputs/outputs) for synchronised operation with other devices
- 3D plotting of curves

Available techniques:

POTENTIOSTAT

Vol	ltammetr	V

LSV Linear Sweep Voltammetry

CV Cyclic Voltammetry

SWV Square Wave Voltammetry DPV Differential Pulse Voltammetry

NPV Normal Pulse Voltammetry

Differential Normal Pulse Voltammetry **NDP**

ACV AC Voltammetry

Amperometry

Amperometric Detection AD Fast Amperometry $(t_{int} < 0.1 s)$ FA **PAD** Pulsed Amperometric Detection ZRA Zero Resistance Amperometry

GALVANOSTAT

LSP Linear Sweep Potentiometry

CP Cyclic Potentiometry

PD Potentiometric Detection (galvanostatic)

FP Fast Potentiometry $(t_{int} < 0.1s)$

ZCP Zero Current Potentiometry

PSAG Potentiometric Stripping Analysis (galvanostatic)

PSAF Potentiometric Stripping Analysis (faradaic)









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Control Specifications				
General Pretreatment	Conditioning stage duration: Deposition stage duration:	0 – 1300 s 0 – 1300 s		
	Equilibration stage duration:	0 – 1300 s		
General	Begin, End, Base, Vertex potentials:	-4.096 V to +4.096 V		
Parameters	Step potential:	1 mV to 500 mV		
	Pulse potential:	1 mV to 250 mV		
	Scan rate:	1 ms up to 1.3 s per step		
Specific Parameters	SWV	Frequency:	1 Hz to 400 Hz	
		Amplitude:	1 mV to 250 mV	
	DPV, NPV, NDP	Modulation time:	1 ms to 1300 ms	
	The second secon	Pulse time:	1 ms to 1300 ms	
	ACV	Frequency:	2 Hz to 250 Hz	
		Amplitude:	5 mV to 250 mV (RMS)	
	Chrono. Methods (AD, PD, ZCP, ZRA)	Interval time:	0.1 s to 1300 s	
		Run time:	Hours (65000 points)	
	Fast Chrono. Methods (FA, FP)	Interval time:	1 ms to 1300 ms	
		Run time:	Hours (65000 points)	
	PAD	Pulse time:	1 ms to 1300 ms	
		Interval time:	10 ms to 1300 ms	
		Run time:	Hours (65000 points)	
	PSA	Potential limit:	±2.048 V	

Specifications are subject to change without previous notice

Related products

















