



μStat 300 is the **portable BiPotentiostat** from **DropSens** that can be applied for **Voltammetric** and **Amperometric** measurements, including **8 electroanalytical techniques**, and can be used with one- or two-working electrodes configuration.

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

μStat 300 has seven current ranges: 1 nA to 1 mA, and Auto (the instrument automatically selects the optimal current range), with a **maximum measurable current of 3 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
- 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

Voltammetry

LSV	Linear Sweep Voltammetry
CV	Cyclic Voltammetry
SWV	Square Wave Voltammetry
DPV	Differential Pulse Voltammetry
NPV	Normal Pulse Voltammetry

Amperometry

AD	Amperometric Detection
PAD	Pulsed Amperometric Detection
MAD	Multipulsed Amperometric Detection

Instrument Specifications

● Power	Li-ion Battery (1250 mAh); USB; DC charger adaptor compatible (5V)
● PC interface	Bluetooth®, USB, RS232
● Operating modes	BiPotentiostat, Potentiostat
● DC-Potential range	±2 V
● Current ranges	±1 nA to ±1 mA (7 ranges)
● Maximum measurable current	3 mA
● Voltage ranges	±100 mV to ±1 V (2 ranges)
● Applied Potential Resolution	1 mV
● Measured Current Resolution	0.025 % of current range 1 pA on lowest current range
● Applied Current Resolution	0.1 % of current output range
● Measured Potential Resolution	0.012 % of potential range
● Potential Accuracy	±0.2 %
● Current Accuracy	≤0.5 % of current range at 100 nA to 10 mA
● External inputs/outputs	lout, Eout 2 Analog inputs 1 Analog output 2 Digital input/outputs TX, RX, RTS signals for RS232 connection Power, Status, Measuring, Bluetooth®
● LED indicators	
● Dimensions	13.2 cm x 10.0 cm x 3.6 cm (L x W x H)
● Weight	480 g

Control Specifications

Pretreatment	Conditioning stage duration:	0 – 1300 s	
	Deposition stage duration:	0 – 1300 s	
	Equilibration stage duration:	0 – 1300 s	
General Parameters	Ebegin, Eend, Ebase, Evtx1, Evtx2:	-2 V to +2 V	
	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	Modulation time:	1 ms to 1300 ms
		Pulse time:	1 ms to 1300 ms
	Chrono Methods (AD, PD, MAD)	Interval time:	0.1 s to 1300 s
		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)	

Specifications are subject to change without previous notice

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