

μStat 400



Specifications

- Power	5 V / Li-ion Battery
- PC interface	Bluetooth[®], USB, RS232
- Operating modes	BiPotentiostat, Potentiostat, Galvanostat, Open Circuit Potential
- DC-Potential range	± 4.096 V
- Current ranges	± 1 nA to ± 10 mA (8 ranges)
- Maximum measurable current	80 mA
- Voltage ranges	± 10 mV to ± 4 V (4 ranges)
- Speed settings	4 (High speed... High stability)
- Rise time	20 μs
- Current resolution	0.1 % of current range 1 pA on lowest current range
- Resolution (potentiostat)	1 mV
- Accuracy (potentiostat)	± 0.15 %
- Resolution (galvanostat)	0.5 mV
- Accuracy (galvanostat)	± 0.05 %
- External inputs/outputs	Iout, Eout 2 Analog inputs 1 Analog output 2 Digital input/outputs TX, RX, RTS signals for RS232 connection
- LED indicators	Power, Status, Measuring, Bluetooth[®]
- Dimensions	12.5 cm x 9.5 cm x 4.0 cm (L x W x H)

μStat 400 is the **NEW portable BiPotentiostat/Galvanostat** from DropSens. It 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 80 mA**.



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The supplied **DropView software** for Windows is used to control the instrument and to plot the measurements and perform the analysis of results. **DropView** software provides powerful functions such as experimental control, graphs or file handling, among others.

Available techniques:

Potentiostat

Voltammetry

LSV Linear Sweep Voltammetry

CV Cyclic Voltammetry

SWV Square Wave Voltammetry

DPV Differential Pulse Voltammetry

NPV Normal Pulse Voltammetry

NDP Differential Normal Pulse Voltammetry

ACV AC Voltammetry

Amperometry

AD Amperometric Detection

FA Fast Amperometry ($t_{int} < 0.1$ s)

PAD Pulsed Amperometric Detection

ZRA Zero Resistance Amperometry

Galvanostat

LSP Linear Sweep Potentiometry

CP Cyclic Potentiometry

PD Potentiometric Detection (galvanostatic)

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

ZCP Zero Current Potentiometry

PSA Potentiometric Stripping Analysis (galvanostatic)

PSA Potentiometric Stripping Analysis (faradaic)

Control Specifications

Conditioning stage duration:	0 - 1300 s
Deposition stage duration:	0 - 1300 s
Equilibration stage duration:	0 - 1300 s

Limits of some technique specific parameters

LSV, CV	Scan rate:	1 mV/s to 500 V/s
SWV	Frequency:	1 Hz to 1000 Hz
	Amplitude:	1 mV to 500 mV
DPV, NPV, NDP	Modulation time:	1 ms to 1300 ms
	Scan rate:	1 mV/s to 250 V/s
	Pulse time:	1 ms to 1300 ms
ACV	Frequency:	2 Hz to 250 Hz
	Amplitude:	1 mV to 250 mV
AD, PD, ZCP	Interval time:	0.1 s to 1300 s
	Run time:	Hours (>65000 points)
FA, FP	Interval time:	0.1 ms to 1300 ms
	Run time:	1300 s
PAD	Interval time:	0.1 s to 1300 s
	Pulse time:	1 ms to 1300 ms
	Run time:	Hours (>65000 points)
PSA	Maximum time:	1300 s