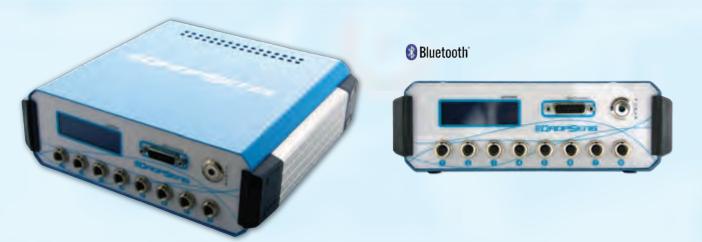






Ref. STAT8000



DropSens is proud to announce the launch of the **world first portable Multi Potentiostat/Galvanostat** in the market, the **NEW** μ *Stat 8000*.

Our brand new instrument, of only 22x20x7 cm, includes **8 channels** that can act at the same time as **8 independent potentiostats/galvanostats**; it also includes **one multichannel** that can act as a potentiostat where up to 8 working electrodes share an auxiliary and a reference electrode.

With *µStat 8000* users can perform up to 8 different electrochemical techniques at the same time; or carry out the study of one technique's parameter in just one step by applying the same electrochemical technique in several channels but selecting different values for the parameter under study. These are just examples of the enormous capabilities that our new instrument offers.

µStat 8000 can be applied for Voltammetric, Amperometric or Potentiometric measurements, including 18 electroanalytical techniques.

The **NEW portable** Multi Potentiostat/Galvanostat is **Li-ion Battery powered** (DC charger adaptor also compatible), and can be easily connected to a PC via USB or **Bluetooth**[®].

µStat 8000 is controlled by the **NEW** powerful **software** *"DropView 8400"* which allows plotting of the measurements and performing 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
- NDPV 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} < 0.1s)
- **ZCP** Zero Current Potentiometry
- **PSAG** Potentiometric Stripping Analysis (galvanostatic)
- **PSAF** Potentiometric Stripping Analysis (faradaic)









Ref. STAT8000

Instrument Specifications				
⊘ Power	Li-ion Battery (6150 mAh) USB DC charger adaptor compatible (5 V, 15 W)			
 PC interface 	Bluetooth® USB			
 Operating modes 	8x 1 Channel Potentiostat/Galvanostat 1x 8 Channel Potentiostat			
DC-Potential range	±4.096 V			
 Current ranges (potentiostat) 	±1 nA to ±100 mA (9 ranges)			
 Maximum measurable current 	±80 mA			
 Potential ranges (galvanostat) 	±100 mV, ±1 V (2 ranges)			
 Rise time 	20 µs			
 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 1 mA			
	≤1 % of current range at 10 mA to 100 mA			
 External inputs/outputs 	· 5 Digital Input/Output pins [PIO 1, PIO 2, PIO 3, PIO 4, PIO 5]			
	· 3 Analog Inputs multiplexing PIO 1, PIO 2, PIO 3			
	· 2 Analog Outputs (configurable I-out or E-out)			
 Indicators 	LCD display in front panel			
 Dimensions 	22.2 cm x 20.5 cm x 7.5 cm (L x W x H)			
 Weight 	1.6 kg			

Control Specifications

Control Specifications				
General	Conditioning stage duration:	0-1300 s		
Pretreatment	Deposition stage duration:	0-1300 s		
	Equilibration stage duration:	0-1300 s		
General Parameters	Begin, End, Base, Vertex potentials:	-4.096 V to +4.096 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, NDP	Modulation time:	1 ms to 1300 ms	
		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









Parque Tecnológico de Asturias - Edif. CEEI. 33428 LLanera (Asturias). Spain (+34) 985 27 76 85 - info@dropsens.com - www.dropsens.com