

## Specifications

- Power	Li-ion Battery (3800 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	± 0.1 %
- Current Accuracy	± 0.2 %
- 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

*Specifications are subject to change without previous notice*



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# DROPSSENS

## µStat 8000



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

<b>LSV</b>	Linear Sweep Voltammetry
<b>CV</b>	Cyclic Voltammetry
<b>SWV</b>	Square Wave Voltammetry
<b>DPV</b>	Differential Pulse Voltammetry
<b>NPV</b>	Normal Pulse Voltammetry
<b>NDP</b>	Differential Normal Pulse Voltammetry
<b>ACV</b>	AC Voltammetry

#### **Amperometry**

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

### **GALVANOSTAT**

<b>LSP</b>	Linear Sweep Potentiometry
<b>CP</b>	Cyclic Potentiometry
<b>PD</b>	Potentiometric Detection (galvanostatic)
<b>FP</b>	Fast Potentiometry ( $t_{int} < 0.1$ s)
<b>ZCP</b>	Zero Current Potentiometry
<b>PSAG</b>	Potentiometric Stripping Analysis (galvanostatic)
<b>PSAF</b>	Potentiometric Stripping Analysis (faradaic)