**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
- **Resolution (potentiostat)**: 1 mV
- **Accuracy (potentiostat)**: ± 0.15 %
- **Resolution (galvanostat)**: 0.5 mV
- **Accuracy (galvanostat)**: ± 0.05 %
- **External inputs/outputs**: I_{out}, E_{out}, 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.
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

<table>
<thead>
<tr>
<th></th>
<th>Conditioning stage duration:</th>
<th>Deposition stage duration:</th>
<th>Equilibration stage duration:</th>
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<tr>
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<td>0 - 1300 s</td>
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### Limits of some technique specific parameters

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<tr>
<th>Technique, Type</th>
<th>Scan rate:</th>
<th>Frequency:</th>
<th>Amplitude:</th>
<th>Modulation time:</th>
<th>Pulse time:</th>
<th>Scan rate:</th>
<th>Amplitude:</th>
<th>Frequency:</th>
<th>Amplitude:</th>
<th>Interval time:</th>
<th>Run time:</th>
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<td>LSV, CV</td>
<td>1 mV/s to 500 V/s</td>
<td>1 Hz to 1000 Hz</td>
<td>1 mV to 500 mV</td>
<td>1 ms to 1300 ms</td>
<td>1 ms to 1300 ms</td>
<td>1 mV/s to 250 V/s</td>
<td>1 mV to 250 mV</td>
<td>2 Hz to 250 Hz</td>
<td>1 mV to 250 mV</td>
<td>0.1 s to 1300 s</td>
<td>Hours (&gt;65000 points)</td>
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<td>SWV</td>
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