





μStat 4000P Multi Potentiostat

Ref. STAT4000P



Following the format of our multipotentiostats with a size of only 22x20x7 cm, includes **4 channels** that can act at the same time as **4 independent potentiostats**; it also includes **one multichannel** that can act as a potentiostat where up to 4 working electrodes share an auxiliary and a reference electrode.

With μ Stat 4000P users can perform up to 4 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.

 μ Stat 4000P can be applied for Voltammetric or Amperometric measurements, including 12 electroanalytical techniques. In addition, μ Stat 4000P owners can later upgrade their instrument to a μ Stat 4000 by just purchasing an extension. This self-upgrade does not require any hardware modification, but it is implemented by means of a Galvanostat software update kit.

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

µStat 4000P is controlled by the 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 VoltammetryDPV Differential Pulse VoltammetryNPV Normal Pulse Voltammetry

NDPV Differential Normal Pulse Voltammetry

ACV AC Voltammetry

Amperometry

AD Amperometric Detection

ZRA Zero Resistance Amperometry

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

PAD Pulsed Amperometric Detection

COUL Coulometric Detection









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| Instrument Specifications | | | | |
|---|---|--|--|--|
| o Power | Li-ion Battery (6150 mAh) USB | | | |
| PC interface | DC charger adaptor compatible (5 V, 15 W) Bluetooth® USB | | | |
| Operating modes | 4x 1 Channel Potentiostat 1x 4 Channel Potentiostat | | | |
| DC-Potential range | ±4 V | | | |
| Current ranges (potentiostat) | ±1 nA to ±100 mA (9 ranges) | | | |
| Maximum measurable current | ±80 mA | | | |
| Applied Potential Resolution: | 1 mV | | | |
| Measured Current Resolution | 0.025 % of current range (1 pA on lowest current 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) | | | |
| o Indicators | LCD display in front panel | | | |
| o Dimensions | 22.2 cm x 20.5 cm x 7.5 cm (L x W x H) | | | |
| Weight | 1.6 kg | | | |

| Control Specifications | | | | |
|-------------------------|---|----------------------------------|--|--|
| General Pretreatment | Conditioning stage duration: Deposition stage duration: | 0 – 1300 s 0 – 1300 s | | |
| General | Equilibration stage duration: Begin, End, Base, Vertex potentials: | 0 – 1300 s -4 V to +4 V | | |
| Parameters | Step potential: Pulse potential: | 1 mV to 500 mV 1 mV to 250 mV | | |
| | Scan rate: | 1 ms up to 1.3 s per step | | |
| Specific Parameters | SWV | Frequency: Amplitude: | 1 Hz to 400 Hz 1 mV to 250 mV | |
| | DPV, NPV, NDP | Modulation time: | 1 ms to 1300 ms | |
| | ACV | Frequency: Amplitude: | 2 Hz to 250 Hz 5 mV to 250 mV (RMS) | |
| | Chrono. Methods (AD, ZRA, COUL) | Interval time: | 0.1 s to 1300 s Hours (65000 points) | |
| | Fast Chrono. Methods (FA) | Interval time: | 1 ms to 1300 ms Hours (65000 points) | |
| | PAD | Pulse time: | 1 ms to 1300 ms | |
| | | Interval time: Run time: | 10 ms to 1300 ms Hours (65000 points) | |

Specifications are subject to change without previous notice

Related products







CAST





110

4W110





