



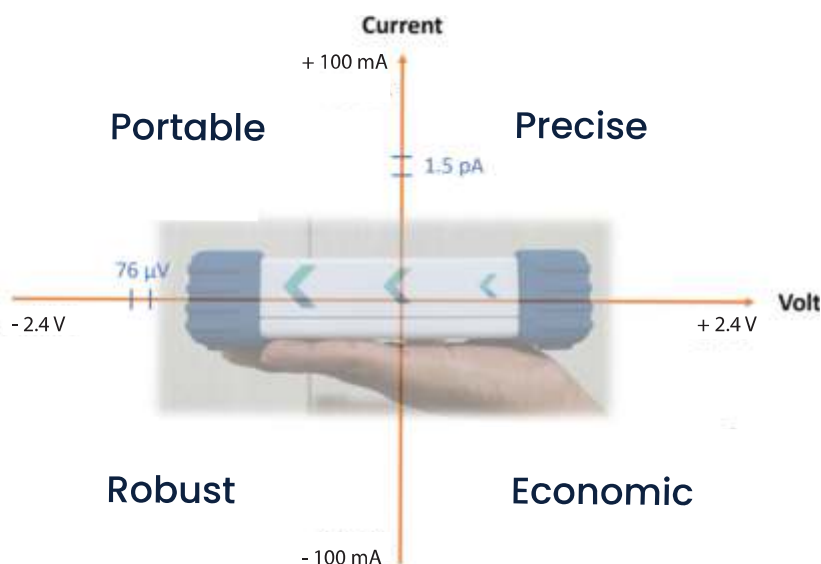
MedPstat

The Most Affordable
Potentiostat

**Start Your Electrochemistry
Research Today**

MedPstat 1.0 Detailed Specifications

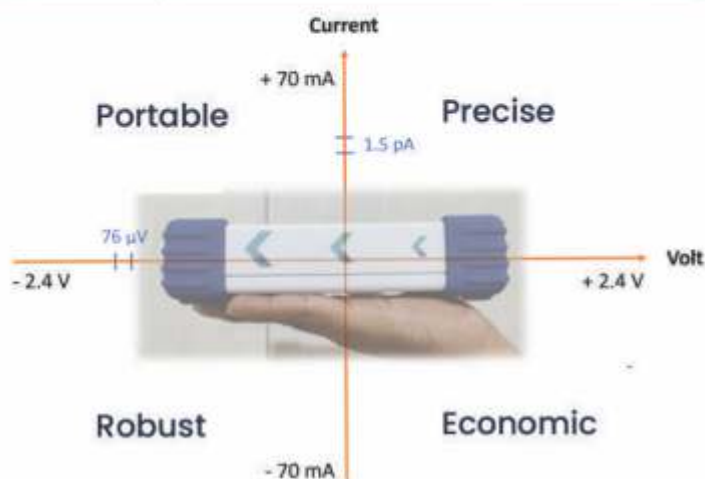
Experiment Methods	CV, LSV, ChronoAmp, OCV, DPV, SWV
Channels Per Unit	1
Applied potential range	± 2.4 V
Applied Potential Accuracy	"0.1% of the setpoint, 1mV Max"
Applied Potential Resolution	76 μ V
Measured Potential Accuracy	"0.1% of the setpoint, 1mV Max"
Measured Potential Resolution	156 μ V
Compliance Voltage	± 8 V
Maximum Current	100 mA
Current ranges	7 Ranges
Measured Current Accuracy	"0.1% of the range, 1nA max"
Measured Current Resolution	"0.00015% of range, 1.5 pA "
Input Impedance	10 T Ω
Input Bias Current	1pA Max
Computer Interface	USB
Channel Cable Length	0.8 meter
Power supply	12V DC
Power Supply Requirements	100V - 240V AC
Weight	285 grams
Physical Dimensions	181mm * 91.5mm * 42mm
Operating temperature range	0 to 60 $^{\circ}$ C
Communication	"USB, Bluetooth"
Bandwidth	upto 4 MHz
Max. acquisition rate	1 KHz
ADC/DAC Resolution	16 bit
Slew Rate (No Load)	3.5 V/ μ S
Maximum Sampling Speed	"50,000 samples/sec"



MedPstat 2.0 (Potentiostat/Galvanostat)

Detailed Specifications

Channels Per Unit	1
Methods Available	CV, LSV, ChronoAmp, OCP, DPV, SWV, ChronoPot, Charge-Discharge
Applied potential range	±2.4 V
Applied Potential Accuracy	0.1% of the setpoint, 1mV Max
Applied Potential Resolution	76 µV
Measured Potential Accuracy	0.1% of the setpoint, 1mV Max
Measured Potential Resolution	156 µV
Compliance Voltage	±7.2 V
Maximum Current	100 mA
Current ranges	7 Ranges
Measured Current Accuracy	0.1% of the range, 1nA max
Measured Current Resolution	0.00015% of range, 1.5 pA
Applied Current Resolution (Gal)	1.5 pA
Measured Potential Range (Gal)	+7.5 V
Input Impedance	>10 TΩ
Input Bias Current	1pA Max
Computer Interface	USB
Channel Cable Length	0.8 meter
Power supply	12V DC
Power Supply Requirements	100V - 240V AC
Weight	285 grams
Physical Dimensions	181mm * 91.5mm* 42mm
Operating temperature range	0 to 50 °C
communication	USB
PC Software	Available with lifetime license
Bandwidth	upto 4 MHz
Max. acquisition rate	1 KHz
ADC/DAC Resolution	16 bit
Slew Rate (No Load)	3.5 V/µS
Maximum Sampling Speed	50,000 samples/sec



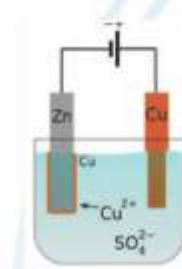
Applications

■ Sensing & Biosensing

MedPstat is designed to accurately measure sensing signals, It contains powerful sensing techniques like DPV & SWV.

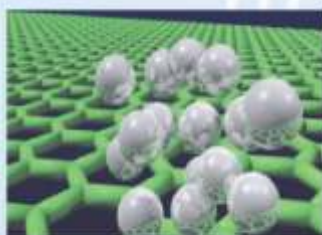
■ Electrodeposition & Coating

MedPstat can be used for controlling the deposition rate, thickness, and composition of metal films and coatings. By maintaining a constant potential, potentiostats ensure uniform and precise electrodeposition.



Corrosion Research

MedPstat can be used for corrosion research to evaluate the corrosion resistance of materials and coatings. Techniques such as potentiodynamic polarization. It is one of the fastest methods to evaluate corrosion rate.



Electrocatalysis & Electrosynthesis

MedPstat can be used to investigate the electrochemical behavior of various materials intended for use as electrocatalysts. This includes determining the kinetics of the redox reactions involved in catalysis and understanding the mechanisms underlying catalytic activity. Applications include Electrochemical CO₂ Reduction and Water Splitting research. While the Electrosynthesis can be used for material & drugs synthesis.



Environmental Research

MedPstat can play a crucial role in environmental monitoring by facilitating the detection and quantification of various pollutants and contaminants in air, water, soil, and other environmental samples.



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