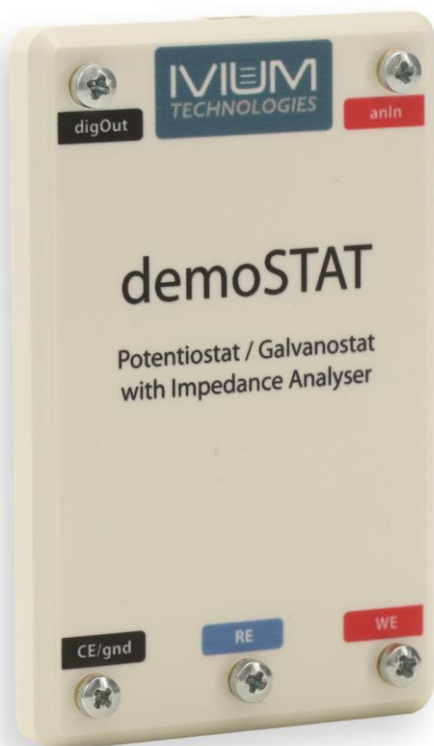


demoSTAT

Smart introduction to electrochemical instrumentation



- Potentiostat - Galvanostat - Impedance analyser
- Compliance: $\pm 5\text{mA}$ @ $\pm 3\text{V}$
- Impedance: $10\mu\text{Hz}$ to 100kHz
- Performs all conventional electrochemical techniques, including EIS!
- Small size: $95 \times 60 \times 8\text{mm}$

Applications:

- Demonstration and feasibility
- Training and education

demoSTAT-pro

Direct route to professional instrumentation: method & datafiles are directly compatible with the professional Ivium Instruments, for a seamless progression to research grade work: better accuracy and wider dynamic range.

Specifications:

- 3 electrodes: WE,CE,RE via M3 screw terminals
 - Compliance: 5mA@3V (2mA@6V)
 - Potentiostat: $\pm 2V$ applied range, resolution: 1mV
 - Galvanostat: $\pm 2mA$ applied range, resolution: 0.1% of range
- 2 peripherals:
 - 1 Analog input, $\pm 5V$ with 0.15mV resolution
 - 1 Digital output, 0/3.3V
- 4 current ranges: 1mA...1 μ A
- Measured potential: $\pm 5V$, 0.15mV resolution
- Measured current: $\pm 5*CR$, 0.015% resolution down to 150pA
- Accuracy: 0.1% of range +0.5% of value
- Bandwidth for 1kOhm cell at CR=1mA: 150kHz; risetime 5 μ s
- Impedance:
 - Frequency range 10 μ Hz to 100kHz
 - Fixed 25mV potentiostatic amplitude, or 0.025*CR galvanostatic amplitude
 - Error below 1%, 1deg for 20Ohm-10kOhm Cells in 10 μ Hz to 10kHz range
- Reference electrode: input impedance 100GOhm//150pF, DC bias < 10pA
- USB powered, via USB-C cable
- Dimensions: 95x60x8mm, 50g
- Requirement: Windows 10 PC, with free USB port

Performance:

- Acquisition 2x16bit up to 100,000 datapoints /second
- Scan duration:
 - demoSTAT-pro: no limits

Shipment includes:

- demoSTAT instrument, 1 year warranty
- IviumSoft software license
- 3 electrode cable leads 25cm, screw terminal M3 / alligator clips
- USB-C cable, 1m

List of supported Electrochemical Techniques:

Linear Sweep Voltammetry	ChronoAmperometry	ElectroChemicalNoise
Linear Sweep Currentaveraging	ChronoPotentiometry	CycliScan (Pro only)
Linear Sweep Potentiometry	MixedMode	Amperometric Detection
Cyclic Voltammetry	Eoc Monitor	Differential Pulse Voltammetry
Cyclic Voltammetry Currentav.	Polarization Resistance	Square Wave Voltammetry
Cyclic Potentiometry	Tafel Plot	Normal Pulse Voltammetry
Impedance Constant E	Potentiodynamic	AC Voltammetry
Impedance Constant I	Cyclic Polarization	AC Detection
Impedance Potentialscan	Galvanic Corrosion	Pot. Stripping Voltamm.
Impedance Currentscan	Corrosion Rate Monitor	Voltammetric Pulse Builder

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