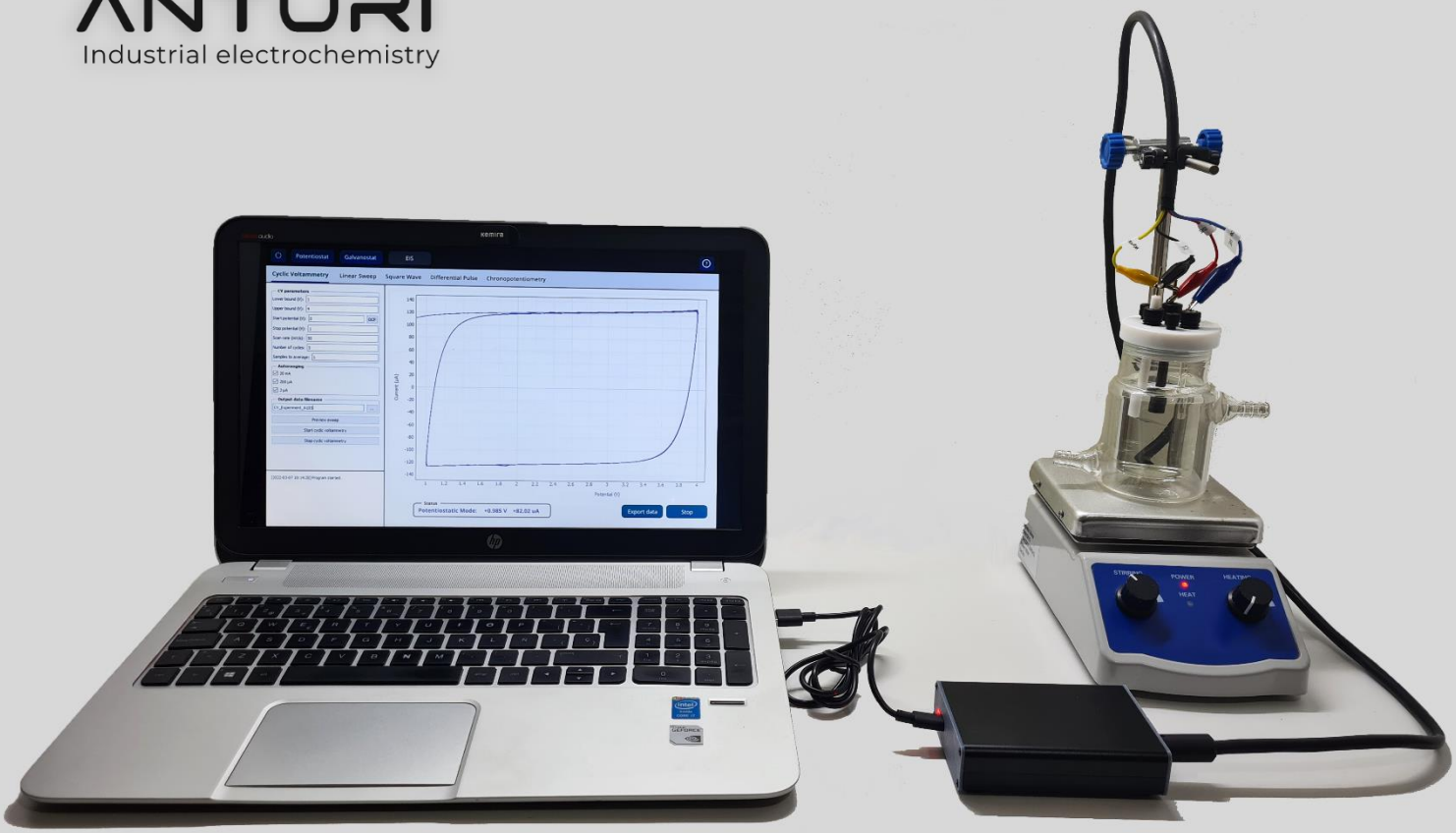
PGSTATs

Portable devices for electrochemical analyses

ANTURI
Industrial electrochemistry



We offer portable **Potentiostat/Galvanostat (PGSTAT)** devices. Small and extremely powerful tools designed to provide a wide range of measurements and high resolution, keeping very low prices compared with the similar devices, with the best-known price-quality of the market.

Our devices supply the most important electroanalytical techniques, required for measurements, research and development, and characterization of multiple electrochemical systems and materials.

Potential applications

+ Electrodeposition, anodic oxidation, etc.
+ Research in electrochemical sensors
+ Development of batteries and capacitors
+ Analysis of new materials for energy storage
+ Evaluation of corrosion processes and coatings
+ Hydrogen production
+ Electrowinning optimization
+ Electrosynthesis
+ Characterization of membranes
+ Quality control of water samples
+ Studies in photoelectrocatalysis and electrocatalysis

PGSTATs are essential tools in modern laboratories and industries

Specifications

+ Potential control range: ±8 V
+ Compliance voltage: ±9 V
+ Current control range: 2 µA - 20 mA (3 ranges)
+ Potential and current range: Automatic
+ Supports 2, 3 or 4-electrode configurations
+ Supported in Windows, Linux and Mac
+ DAC resolution: 22-bits
+ Min. potential resolution: 3.8 µV
+ Min. current resolution: 1.2 pA
+ 90 ms per sample
+ USB Powered

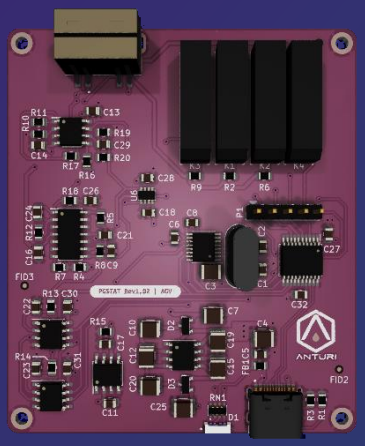
The package includes

+ Laptop (Windows OS) + installed software
+ **Basic PGSTAT** device + aluminum case
+ Mini-USB cable: for power and data
+ 4-cell shielded cable with alligator clips
+ Carrying PU bag
+ High-precision resistor and Capacitor for calibration (dummy PCB cell)
+ Electrochemical cell (50 mL) with water jacket
+ Working (SS316L, 3mm diameter), counter (platinum 10x10x0.1 mm) and reference (Ag/AgCl) electrodes

Supported techniques

+ Cyclic voltammetry
+ Chronopotentiometry
+ Linear Sweep Voltammetry
+ Chronoamperometry
+ Charge/discharge experiments

PGSTAT
Basic version



Dimensions:
62 x 70 x 20 mm

Weight:
40g

Lead-time:
6 weeks

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Specifications

+ Potential control range: ±13 V
+ Compliance voltage: ±14.6 V
+ Current control range: 2 µA - 200 mA (4 ranges)
+ Potential and current range: Automatic
+ Supports 2, 3 or 4-electrode configurations
+ Supported in Windows, Linux and Mac
+ DAC resolution: 24-bits
+ Min. potential resolution: 3.8 µV
+ Min. current resolution: 1.2 pA
+ 1 ms per sample
+ USB Powered

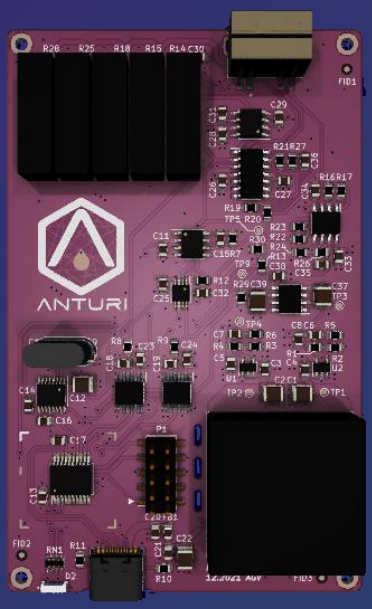
The package includes

+ Laptop (Windows OS) + installed software
+ **Intermediate PGSTAT** device + aluminum case
+ USB Type-C cable: for power and data
+ 4-cell shielded cable with alligator clips
+ Carrying PU bag
+ High-precision resistor and capacitor for calibration (dummy PCB cell)
+ Electrochemical cell (50 mL) with water jacket
+ Working (SS316L, 3mm diameter), counter (platinum 10x10x0.1 mm) and reference (Ag/AgCl) electrodes

Supported techniques

+ Cyclic voltammetry
+ Chronopotentiometry
+ Linear Sweep Voltammetry
+ Chronoamperometry
+ Charge/discharge experiments
+ Square Wave Voltammetry
+ Differential Pulse Voltammetry

PGSTAT
Intermediate version



Dimensions:
104 x 72 x 25 mm

Weight:
200g

Lead-time:
6 weeks

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Software capabilities

The software allows to calibrate the device, to execute the supported techniques, and to visualize and export the obtained data.

It is possible to develop new techniques according with the client requirement and hardware constraints.