

**CC-ITES**

Competences Center: Interfaces – Tribocorrosion and Electrochemical Systems.

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[www.cc-ites.ugal.ro](http://www.cc-ites.ugal.ro)

## Electrochemical Workstation PGZ100-1 All-in-one Potentiostat



- Potentiostat-Galvanostat with Electrochemical Impedance Spectroscopy Analyser
- Computer controlled
- Acquisition-view experimental data program: VoltaMaster 4
- Electrochemical Cell with double walls to maintain constant temperature of electrolyte and solutions
- Electrodes
- Interface and Lap Top Computer for piloting, acquisition experimental data
- Editing, processing, simulation and presentation of experimental data program.
  
- Hybrid materials and nanocomposites deposits
- Electrochemical techniques for the study of electrodeposition processes of the organic and biocompatible polymers - mechanisms and modeling
- Kinetics and mechanism of electrodeposition
- Kinetics of nanoparticles dispersed electrocodeposition with metal matrix
- Voltammetry and linear polarization for the study of surface functionalization
- Electrochemical impedance spectroscopy at cathodic potential for study electrocodeposition mechanism

### Technical Specifications:

VoltaLab 10 is an all-in-one system which brings you a multitude of functions in a compact box at an unbeatable price. As it is the easiest to use “all-in-one” potentiostat on the market, it is the obvious choice for teaching or for beginners in electrochemistry. It offers Voltammetry and Electrochemical Impedance Spectroscopy.

#### • Voltammetry

- Maximum compliance voltage  $\pm 30$  V
- Maximum current output  $\pm 1$  A
- Maximum polarisation voltage  $\pm 15$  V

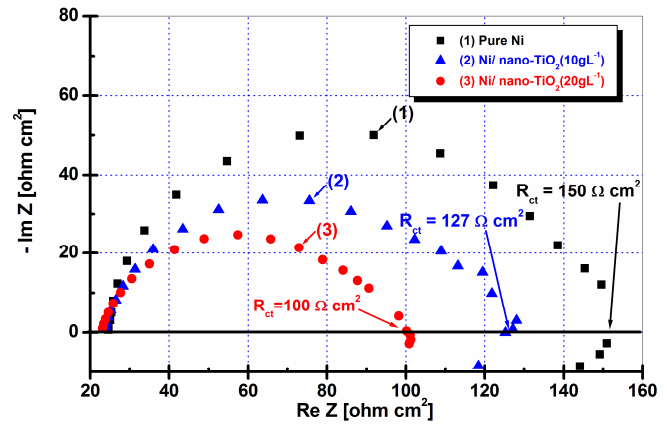
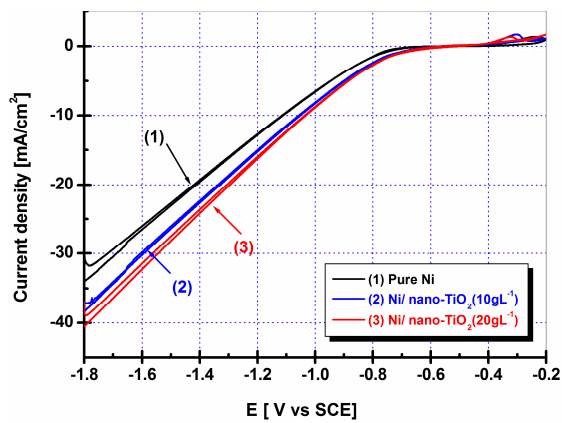
#### • Electrochemical Impedance

- Max. frequency 100 kHz
- Min. frequency 1 mHz

#### • Ordering information

- VoltaLab 10 (230 V) R21V011

○ VoltaLab 10 (115 V) R21V012



Kinetic and mechanism of electrodeposition, electro-codeposition of inert dispersed particles (oxides, carbides, nitrides, polymers, active molecules) into metallic matrices.

