

## Potentiostat/galvanostat Biologic SP-300



### Technical description:

Two channel potentiostat/galvanostat BioLogic SP-300 with EIS module enabling fundamental electrochemical measurements, testing of electrocatalytic materials, analysis of kinetics and mechanism of electrode processes as well as synthesis of metallic and semiconducting materials of different geometry (nanotubes, nanorods). SP300 can be also used for complex characterization of materials towards their corrosion properties.

**Trade name:** Biologic SP-300

**More details:** </equipment/potencjostatgalwanostat-biologic-sp-300/>

**Access type:** External

**Type of accreditation / certificate:** Not applicable

**Contact person:** Mech Krzysztof

**Contact person url:** <https://skos.agh.edu.pl/osoba/krzysztof-mech-7959.html>

**Responsible body:** Academic Centre for Materials and Nanotechnology

**Group / laboratory / team:** Semiconductors Photophysics and Electrochemistry

**Last update date:** Nov. 10, 2023, 9:14 a.m.

**Year of commissioning:** 2017

**IDUB research areas:**

(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

**Research capabilities:**

Current-voltage characteristics (CV, LV, LSV, DPV)

Electrochemical impedance spectroscopy

Chronoamperometric and chronopotentiometric curves

OCP measurements

**Measurement capabilities:**

Potential range:  $\pm 10$  V

Frequency range EIS: 10  $\mu$ Hz - 7 MHz

Current range: od 1 A to 10 nA

Max current:  $\pm 500$  mA

Floating mode

Analog filtering

**Conditions for providing infrastructure:**

Apparatus is made available under the terms of the Regulations for the Use of ACMiN Research Infrastructure. (<https://acmin.agh.edu.pl/acmin/dokumenty/>)