**Potentiostat METHROHM**

**Equipment: Potentiostat METROHM** **(included in the Laboratory of Photochemistry)**

**No. of Equipment: UJEP11**

**Responsible coordinator:** Prof. Ing. Pavel Janoš, CSc.

**Name of Institution**: J. E. Purkyně University in Ústí nad Labem, Faculty of Environment

**Address of Institution:** Králova Výšina 3132/7, 400 96 Ústí nad Labem, Czech Republic

**E-mail:** pavel.janos@ujep.cz

**Telephone:** +420 475 284 148

**Homepage:** http://fzp.ujep.cz

**Contact person:** prof. Pavel Janoš

**E-mail:** [pavel.janos@ujep.cz](mailto:pavel.janos@ujep.cz)

**Telephone:** +420 475 284 148

**Equipment Description**

**Description of equipment:**

**Potentiostat - Autolab PGSTAT302N, METROHM**

* Electrode connections: 2,3,4
* Potential Range: ± 10 V
* Maximum Current: ± 2 A
* Potential Accuracy: ± 0,2 %
* Current Resolution: 0,0003 % (of current range)
* Input impedance: > 1 TOhm
* Potentiostat bandwidth: 1 MHz
* Control Software: NOVA
* Available measuring methods: cyclic voltammetry, differetial pulse voltammetry, square wave voltammetry, impedance spectroscopy, chronopotentiometry, chronoamperometry, open circuit potential,

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP4**a,b,c **WP6**a,b,e, **WP7**a

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment**:

Study of electrochemical and photo-electrochemical transformations, electrochemical properties of (nano)materials

**Please, specify the secondary research topics connected with equipment**:

Electrochemical destruction of selected pollutants

**Keywords describing research area:**

Electrochemistry on solid electrodes; Electrochemical destruction of pollutants; Electroanalysis

**Competence**

**Relevance for applied and industrial research:**

Development of methods for electrochemical destruction of selected pollutants. Development of new electrochemical methods using new kinds of (nano)materials.

**Relevance for fundamental studies:**

Studying the mechanisms and electrochemical transformations