

Datasheet PGU 10V-1A-IMP-S

As part of a research project in 2002, we developed our new **PGU-series**. The aim of this development was to standardize the previous models of the IMP-series and the 1000 series in order to build them modular and flexible as well as to equip them with some additional features. Thereby we did not want to waive the tried, like the manual operation. Thus, the recent circuits were expanded with the function of automatic measuring range switching. In addition, the devices have been designed so that they can be equipped with an interface for the computer control.

The device design is very flexible and offers the possibility to build different types out of a base device.

Thereby, the **PGU 10V-1A-IMP-S** is a true universal device. It has all the standard methods to the point of impedance measurement. Optionally the modules for the measurement of the electrochemical noise can be inbuilt. The upper limit of the impedance measurement lies at 1 Terra-ohm.



Data overview:

- Potentiostat, galvanostat
- Manual operation
- Control in- and outputs for external control
- Fully automatic operation with built-in interface
- Impedance measurement
- Measurement of the electrochemical noise (optional)
- Mains operation, 115V / 230V

Details:

Modulation:	$\pm 12V / \pm 1A$
Polarization range:	$\pm 10V$ potentiostat / $\pm 1A$ galvanostat
Current ranges:	11 ranges from 1A to 100pA
Resolution:	100pA = 10000mV in the 100pA range, 10fA = 1mV
Input resistance RE:	$10^{13} / 10^{15}\Omega$
Measurement outputs:	Potential, current, current with 40Hz filter, current with x10 amplifier
Inputs:	2 BNC connectors for external nominal potential