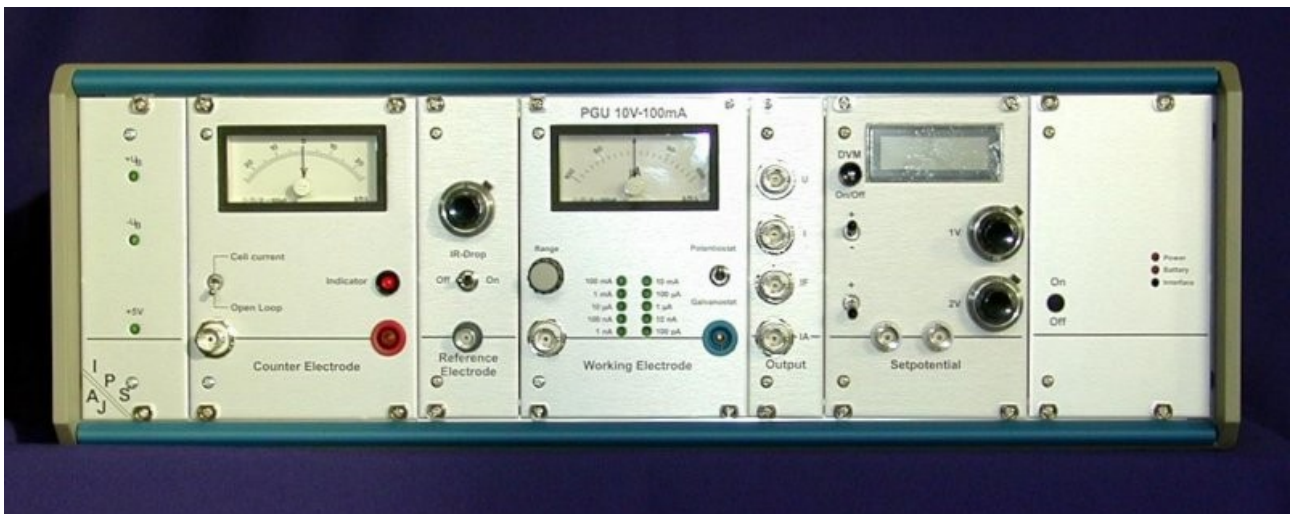


Datasheet PGU 10V-100mA

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.

Withal the **PGU 10V-100mA** is a high resolution but nevertheless a low cost device. It has as its lowest current range 100pA and can hence resolve into the fA range. If only static parameters are needed, then this device will be operated manually, what means in this concrete case, a marked reduction of interference signals.



Data overview:

- Potentiostat, galvanostat
- manual operation
- Control in- and outputs for external control
- fully automatic operation with built-in interface
- Mains operation, 115V / 230V

Details:

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