

P-M 100



Overview

Potentiostat

- Used for coating research experiments
- Manually operated
- Cathodic Disbondment Test.

Description

The **P-M 100** is a modular system. It is a pure potentiostat, galvanostat mode is not available.

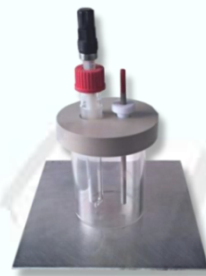
The **P-M 100** is conscious a very simple device, which is used for series measurements. Here the focus is on hold experiments (e.g. research of coatings). The device has no external inputs for automation. All settings have to be made manually. The measurement values can be read from the two digital displays for current and potential. The potentiostat has a maximum current of ± 500 mA with a compliance voltage of ± 11 V. It has two current ranges, namely 100 mA and 20 mA. A light-emitting diode is used as an indicator of the internal potential = OCP and as overload display. For the adjustment of potential a nominal voltage generator with ± 2 V is used.

According to the existing requirements the device can be assembled with only one but also with up to 4 modules in one case.

Accessories

Cathodic Disbondment Test Cell

Test cell for tests according to DIN Norm 30670, DIN EN ISO 15711, ISO 21809 Part 1 Annex H, ASTM G-8, ASTM G-42.



Technical Details

Design	
Display for potential measurement	Digital instrument, 3 ½-digits, ± 1999 mV
Display for compliance voltage	LED as indicator for the OCP and overload display,
Display for Current measurement	Digital instrument
Nominal voltage potentiostat	1 nominal voltage generator internal
Current range	100 mA and 20 mA
OCP/closed circuit	manually
Polarization range	Internal
V-nominal for potential	±2000 mV
In-/output resistance	
Internal resistance of current measurement	Approximately 100 μΩ
Input resistance of current measurement	Approximately 10 TΩ
Rise speed/rise time	n.a.
Current measurement	Digital
Current range	100 mA and 20 mA
Accuracy	0,5 %
Voltage measurement	Digital
Digital volt meter	3½-digits, to ± 1999 mV.0,5 %
V-counter electrode-measuring electrode	±11 V