

Multi Autolab/M101

AUTM101.S

The Multi Autolab/M101 is a multi channel potentiostat/galvanostat based on the compact Autolab PGSTAT101. It consist of a Multi Autolab Cabinet which can be fitted with up to 12 M101 modules. Each M101 is a completely independent potentiostat/galvanostat, allowing you to perform different measurements on each channel at the same time.

The Multi Autolab can be controlled from up to three different computers simultaneously, allowing to share the available channels among different users.

The Multi Autolab instruments can be complemented by a selection of optional modules. Each M101 module can be coupled to one optional module in the instrument. The maximum number of optional modules is 6. Optional modules or additional M101 modules can be installed at any time.

Phạm vi giao hàng AUTM101.S

Qt. Order no. Description



Dummy cell for instrument testing.



1 PCS CABLE.PWR Power cable

Standard power cable for Autolab instruments and accessories.



1 PCS CBL.USB Standard USB cable

Standard USB cable for Autolab instruments.



1 PCS CELLCBL.M101. Cell cable 204

Standard cell cable, 1.5 m, with connection for counter electrode (CE), reference electrode (RE), sense electrode (S), working electrode (WE) and ground for M101/M204/PGSTAT204.



NOVA is the package designed to control all the Autolab instruments with USB interface.

Designed by electrochemists for electrochemists and integrating over two decades of user experience and the latest .NET software technology, NOVA brings more power and more flexibility to your Autolab potentiostat/galvanostat.



NOVA offers the following unique features:

- Powerful and flexible procedure editor
- Clear overview of relevant real-time data
- Powerful data analysis and plotting tools
- Integrated control for external devices like Metrohm Liquid Handling devices

Download the latest version of NOVA



Phụ kiện từy chon

Phụ kiện tùy chọn	
Order no.	Description
ALL.CLIP.BLACK	Black Alligator Clamp
	Black alligator clamp for connections to electrodes in the electrochemical cell.
ALL.CLIP.RED	Red Alligator Clamp
	Red alligator clamp for connections to electrodes in the electrochemical cell.
BA.S	Dual mode bipotentiostat module
	The BA is a dual-mode bipotentiostat module that converts the Autolab into a double channel potentiostat with which measurements on 2 working electrodes can be performed sharing the same counter and reference electrode. In the Bipotentiostat mode, a fixed potential is applied to the second channel (second Working Electrode) while applying a potential step or a sweep to the first channel (first Working Electrode). In the Scanning





FRA32M.S

Electrochemical impedance spectroscopy module

The FRA32M provides the means to perform impedance and electrochemical impedance measurements in combination with the Autolab. This module allows one to perform both potentiostatic and galvanostatic impedance measurements over a wide frequency range of 10 μ Hz to 32 MHz (limited to 1 MHz in combination with the Autolab PGSTAT). In addition to the classical EIS, the NOVA software also allows the users to modulate other outside signals such as rotation speed of a rotating disk electrode or the frequency of a light source to perform Electro-hydrodynamic or Photo-modulated impedance spectroscopy.

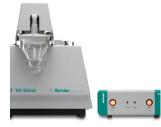


The FRA32M module comes with a powerful fit and simulation software for the analysis of impedance data.

IME663.S

Interface for Metrohm 663 VA Stand

Interface for Metrohm 663 VA Stand.



MBA.S

Dual mode bipotentiostat module

The MBA.S is an additional bipotentiostat module which can be installed into a MultiBA (MBA) Autolab potentiostat/galvanostat adding an additional working electrode to the MBA instrument. A maximum of 5 MBA.S modules together with one FRA32M.S module can be installed in one MBA instrument.



The MUX module series allows you to perform electrochemical experiments on multiple cells or multiple working electrodes, sequentially. The cell to perform measurement on can be selected either manually or automatically using the sequencing option of NOVA. Metrohm Autolab offers two types of MUX modules.



- MUX.MULTI4 Used to multiplex all four connections from the Autolab. This allows sequential measurements on complete electrochemical cells, up to 64 cells with increments of 4.
- MUX.SCNR16 Used to multiplex the working electrode connection of the Autolab. This allows sequential measurements on cells that share the same counter, reference and sense electrode but different working electrode, up to 255 different working electrodes with increments of 16.
- MUX.SCNR8 Used to multiplex the reference and sense electrode connections of the Autolab. This allows sequential voltage sensing across different electrochemical cells, up to 128 cells with increments of 8.

SDK Software development kit

The Autolab Software Development Kit (Autolab SDK) is designed to control the Autolab instrument from different external applications such as LabVIEW, Visual Basic for Applications (VBA), scripting etc. With the Autolab SDK the external application can be used to measure complete procedures or control individual Autolab modules.



In order to use the Autolab SDK from other applications, these applications must have the possibility to use .NET assemblies or in the case of 'older' applications to use COM assemblies. How to integrate these assemblies is explained in the manual of the application.

The Autolab SDK is compatible with Autolab NOVA however it does not require NOVA to be installed.



The pX1000 allows the measurements of pH or pX values during electrochemical experiments. This module also provides an additional Pt1000 input which allows recording of the temperature during the experiments, either through a Pt1000 sensor or through a combined pH /Pt1000 sensor. The temperature measurement allows automatic pH corrections.



The pX1000 module can also be used as an additional differential electrometer, with the same specifications as the main Autolab electrometer. The pX1000 module is compatible with the Metrohm pH and temperature sensors.

The user can connect any pH, pX or 'double' electrode to the pX1000 module. In case an electrode other than a pH electrode is used, the output is given as the voltage difference that is measured between the electrodes making it possible to connect a detection electrode to perform coulometric titration. The pX1000 module also works as an independent pH meter.