



Multi Autolab/M101

AUTM101.S

Le Multi Autolab/M101 est un potentiostat/galvanostat multicanal basé sur l'Autolab PGSTAT101 compact. Il consiste en une armoire Multi Autolab qui peut recevoir jusqu'à 12 modules M101. Chaque M101 est un potentiostat/galvanostat entièrement indépendant qui vous permet de réaliser simultanément différentes mesures sur chacun des canaux.

Le Multi Autolab peut être commandé simultanément par trois ordinateurs différents, ce qui permet de partager les canaux disponibles entre plusieurs utilisateurs.

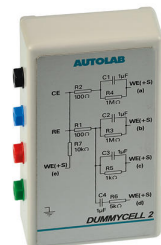
Les instruments Multi Autolab peuvent être complétés par tout un choix de modules proposés en option. Chaque module M101 peut être accouplé à un module en option à l'intérieur de l'instrument. Le nombre maximum possible de modules optionnels est de 6. Des modules optionnels ou des modules M101 complémentaires peuvent être installés à tout moment.

Contenu de la livraison AUTM101.S

Qt.	Order no.	Description
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1 PCS AUT.DUMCELL.S Autolab dummy cell

Dummy cell for instrument testing.



1 PCS CABLE.PWR Power cable

Standard power cable for Autolab instruments and accessories.



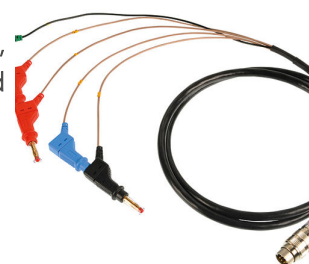
1 PCS CBL.USB Standard USB cable

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.



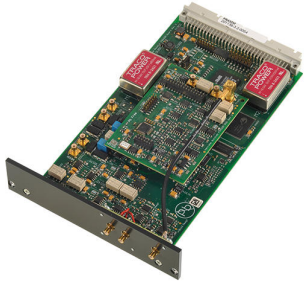


NOVA offers the following unique features:

- 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](#)

Accessoires optionnels

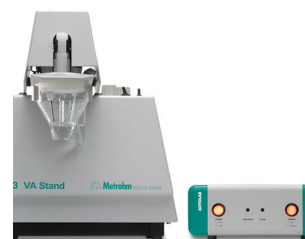
Order no.	Description
ALL.CLIP.BLACK	<div>Black Alligator Clamp</div> <div>Black alligator clamp for connections to electrodes in the electrochemical cell.</div> <div></div>
ALL.CLIP.RED	<div>Red Alligator Clamp</div> <div>Red alligator clamp for connections to electrodes in the electrochemical cell.</div> <div></div>
BA.S	<div>Dual mode bipotentiostat module</div> <div><p>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.</p><p>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 Bipotentiostat mode, a potential offset with respect to the first channel is applied to the second channel.</p></div> <div></div>

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.



Interface for Metrohm 663 VA Stand.



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.SCN16 - 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.SCN8 - 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.

Metro
Autolab

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.
