



Robotic Analyzer Light with OMNIS Software

2.855.1030

The Robotic Analyzer Light package contains all the components for a fully automated titration or measurement in the smallest possible space in a minimum of time.

In addition to the Robotic Titrator Basic with a rack for 22 samples in 120 mL PP beakers, the package also includes a rod stirrer, a peristaltic pump and a Dosino with 20 mL dosing unit and the OMNIS control software.

Only electrode cables, sensors and additional dosing devices as needed must be added, so that it will be available for flexible use as Acid-Base, TAN/TBN, Chloride or Fluoride Analyzer.

Should the number of samples increase, then the option also exists of expanding the system to the Robotic Analyzer Basic.

Below, the accessories are grouped into Scope of delivery and Optional accessories.

Please keep this printout at hand for ordering replacement material.

These lists may be subject to change.

Scope of delivery 2.855.1030

Qt.	Order no.	Description
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Entry-level model of the Robotic Titrosampler for medium sample throughput. The space-saving Robotic Sample Processor XL with integrated Titrando, one workstation and one built-in membrane pump is expanded to become application-specific automation in titration through the selection of sample rack and electrode. Either an external peristaltic pump or membrane pump can be connected for aspiration of the titrated solution (optional). The programming of the methods is accomplished by means of the handy Touch Control or with the tiamo™ titration software.

With increasing sample throughputs, the Robotic Titrosampler "Light" can be expanded simply and inexpensively to become the "Basic" model with which many times the original sample quantity can be managed.



Rod stirrer with separate 6.2137.000 Speed controller and 6.1909.010 Propeller stirrer.



Drive with write/read hardware for intelligent dosing units. With permanently attached cable (length 1.5 m).



1 PCS

1.772.0110

772 Pump Unit

Peristaltic pump for direct connection to Sample Processors.



2 PCS

6.1236.020

Sleeve with SGJ 14/12 mm

Sleeve with SGJ 14/12 mm and O-ring.



1 PCS

6.1458.040

Titration Head, 3 x SGJ 14

Titration head for 120 mL beakers. With 3 openings SGJ 14 and 4 openings 6.4 mm, 2 dosing tips included. Suitable for rinsing and aspiration equipment.



1 PCS

6.1459.300

Sample beaker, plastic (PP), 120 mL, 250 pieces

Sample beaker, plastic (polypropylene, PP), 120 mL, suitable for sample racks: 6.2041.470, 6.2041.840, 6.2041.850, 6.2068.010, 6.2068.020, 6.2068.030, and 6.9920.141, 250 pieces



1 PCS

6.1543.170

Aspiration tip / M8 thread

Aspiration tip for the Sample Processors.



1 PCS

6.1546.030

Piston tongs

For pistons for 807 Dosing Units or cylinder units OMNIS.



1 PCS

6.1608.023

Amber glass bottle / 1000 mL / GL 45

For Exchange Units. Bottle for auxiliary solutions.



2 PCS

6.1621.000

Container 10 L

As rinsing or waste container in automated systems.



2 PCS

6.1801.120

PVC tubing / 4 mm / 6 mm / 2 m



1 PCS

6.1805.120

FEP tubing / M6 / 100 cm

With light and kink protection



1 PCS

6.1805.200

PTFE tubing / M8 / 0.5 m



3 PCS

6.1805.420

FEP tubing / M6 / 48 cm

With light and kink protection



2 PCS

6.1812.000

PTFE tubing 4 mm / 6 mm / 4 m



2 PCS

6.1820.050

M6 / Olive adapter

For 6.1826.100 pump tubing, to peristaltic pumps.



1 PCS

6.1826.100

Pump tubing 6.4 mm / 1 m

Replaces the pump tubing used with the 772 Pump Unit and the 843 Pump Station (peristaltic).



1 PCS

6.1826.160

Viton pump tubing

For peristaltic pumps.



2 PCS 6.1828.000 PVDF connection nipple

For 6.1621.000 canister.



1 PCS 6.1909.050 Stirring propeller / 102 mm

Propeller for 802 Stirrer when this is used with sample racks for 120 mL beakers (6.1459.300)



1 PCS 6.2041.470 Sample rack, 22 x 120 mL, (PP)

Sample rack for 810 Sample Changer, 814 USB Sample Processor, 855 Robotic Titrosampler "Light", suitable for 22 sample beakers. The following sample beakers can be used: 6.1459.300, 6.1459.307.

Plastic: Polypropylene (PP)



1 PCS 6.2053.000 Cable clip

Cable clip for fastening cables and tubes



1 PCS

6.2151.000

Cable USB A – mini-DIN 8-pin

Controller cable



1 PCS

6.2621.030

Hexagon key 4 mm



1 PCS

6.2621.070

5 mm hex key for IC Sample Processors



1 PCS

6.2621.130

Hexagon key 2 mm

2 mm.



1 PCS

6.2621.140

Hexagon key 2.5 mm



3 PCS

6.2740.020

Spray nozzle

For the fine-spraying of the rinsing solution.

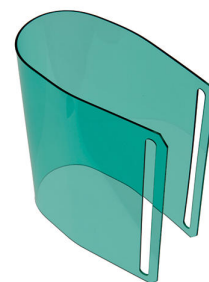


1 PCS

6.2751.190

Safety shield for 855 Robotic Titrosampler "Light"

Safety shield for 855 Robotic Titrosampler "Light"



1 PCS

6.3032.220

807 Dosing Unit 20 mL

807 Dosing Unit with integrated data chip with 20 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.



License-based PC program for controlling complex OMNIS analysis systems.

- Sample-oriented operating procedures with numerous templates
- Graphical method editor with numerous templates
- Clearly organized and professional sample lists
- Management of instruments, work systems, sensors, solutions
- Dialog languages: German, English, Chinese



Enables stand-alone operation of the OMNIS software on a Windows™ computer.

Features:

- The license already includes one OMNIS instrument license.
- Must be activated via the Metrohm licensing portal.



Optional accessories

Order no.	Description	
2.849.0010	849 Level Control Additional equipment for Sample Processors for monitoring the filling level of rinsing or waste canisters via Remote. Prevents pumps from running dry and/or canisters from overflowing and is suitable for use with aqueous solutions, solvents and suspensions.	
6.2148.010	Remote Box MSB Additional remote interface for the connection of devices that can be controlled via remote lines. With permanently attached cable.	
6.0229.010	Solvotrode easyClean (fixed cable 1.2 m) Combined pH electrode with flexible easyClean diaphragm and fixed cable (1.2 m) for all non-aqueous acid/base titrations. The glass membrane is optimized for poorly conducting solutions, and thanks to the easy-to-clean easyClean diaphragm, the electrode is also well suited for heavily contaminated samples, such as used oil. This electrode can be used with non-aqueous reference electrolytes (lithium chloride or tetraethylammonium bromide). Storage in the respective reference electrolyte. The Solvotrode easyClean is also available under the article number 6.0229.020 with a fixed cable length of 2.0 m.	

Fluoride-selective electrode with crystal membrane.

This ISE has to be used in combination with a reference electrode and is suitable for:

- ion measurements of F^- (10^{-6} mol/L to sat.)
- ion measurements in small sample volumes (minimum immersion depth 1 mm)
- titrations

Thanks to the robust/break-proof plastic shaft made of EP, this sensor is mechanically very resistant.



Silver / silver chloride reference electrode with double junction system.

This reference electrode is well suited for:

- automated applications
- ion measurements
- surfactant titrations

The ground-joint diaphragm, which is insensitive to contamination, offers a constant and reproducible electrolyte outflow. Additionally, the reference electrolyte is gelified for even better signal stability. The sensor is delivered with $c(KCl) = 3$ mol/L as bridge electrolyte, which can be freely selected and exchanged as needed.



For connecting electrodes with Metrohm plug-in head G to Metrohm instruments (socket F).



Electrode cable with 2 x plug B (4 mm) for connecting electrodes with plug-in head B



Combined pH electrode for pH titrations in ion-deficient aqueous media (e.g., drinking water, process water). This electrode shows a very short response time in these samples. The fixed ground-joint diaphragm is insensitive to contamination.

When $c(\text{KCl}) = 3 \text{ mol/L}$ is used as bridge electrolyte, storage in storage solution is recommended.

The bridge electrolyte can be easily replaced with a chloride-free electrolyte (e.g., potassium nitrate $c(\text{KNO}_3) = 1 \text{ mol/L}$ (6.2310.010)).

Storage in the used bridge electrolyte.



Combined silver ring electrode with a pH glass membrane as reference electrode.

This maintenance-free electrode is suitable for precipitation titrations when the pH value remains constant (titrant silver nitrate), for example of:

- chloride, bromide, iodide
- sulfides
- hydrogen sulfide
- mercaptans
- cyanides

This electrode is stored in distilled water.

Depending on the application, we recommend using an Ag Titrode with a coating (AgBr , AgCl or Ag_2S coating), which can be ordered accordingly.



6.3032.250

807 Dosing Unit 50 mL

807 Dosing Unit with integrated data chip with 50 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.



2.800.0010

800 Dosino

The 800 Dosino is a drive with write/read hardware for intelligent Dosing Units. With fixed cable (length 150 cm).



2.786.0040

786 Swing Head

Additional equipment for Robotic Sample Processors XL without titration or transfer heads.



6.1462.070

Robotic arm with holder for titration head, right swinging

Titration head holder to 786 Swing Head

