



Automated titration system for up to 28 samples

MATi 07

Fully automated system for the performance of potentiometric titrations such as acid/base, Redox and classic halogenide titration in series of up to 28 samples. The system is controlled with the OMNIS software. At the end of the determination, the electrode and buret tips are cleaned automatically using the Pump Station and the beaker is emptied.

The electrode must be selected separately, depending on the application.

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 MATi 07

Qt.	Order no.	Description
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1 PCS

2.786.0040

786 Swing Head

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



1 PCS

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).



1 PCS

2.802.0020

802 Stirrer for sample changer

Rod stirrer for sample changer and Sample Processor.

With 104 mm 6.1909.020 stirring propeller and permanently installed cable.



High-end titrator for potentiometric titration with one measuring interface for use with Dosino dosing systems.

- up to four dosing systems of the 800 Dosino type
- dynamic (DET), monotonic (MET), and endpoint titration (SET)
- Measurement with ion-selective electrodes (MEAS CONC)
- Dosing functions with monitoring, Liquid Handling
- four MSB connectors for additional stirrers or dosing systems
- "iTrode" intelligent electrodes
- USB connector
- For use with OMNIS Software, *tiamo* software, or Touch Control unit
- Compliance with GMP/GLP and FDA regulations such as 21 CFR Part 11, if required



With 6xSGJ 14 and 3x SGJ 9 openings.



Sample beaker, disposable, plastic (polypropylene, PP), 200 mL, suitable for 6.02041.020 OMNIS Software sample rack, 6.2041.370 und 6.2041.830 sample racks, 1000 pieces.



1 PCS

6.1462.060

Robotic arm with holder for titration head, left swinging

Titration head holder to 786 Swing Head



1 PCS

6.1608.023

Amber glass bottle / 1000 mL / GL 45

For Exchange Units. Bottle for auxiliary solutions.



1 PCS

6.1805.030

FEP tubing / M6 / 150 cm

With light and kink protection



1 PCS

6.2151.000

Cable USB A – mini-DIN 8-pin

Controller cable



807 Dosing Unit with integrated data chip with 10 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.



Robotic USB Sample Processor XL with one workstation and one built-in membrane pump for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. In addition to the built-in pump, an additional one (membrane or peristaltic) and up to three dosing devices for Liquid Handling tasks can be connected.



Because of the multitude of application variants, rack, stirrer, titration head, robotic arm, Swing Head and sample vessels must be tailored to the application and ordered separately.

The control is "stand alone" using Touch Control. The following software products can be selected for the PC control: tiamo™ titration software, MagIC Net chromatography software, viva voltammetry software, or OMNIS.

Peristaltic pump for direct connection to Sample Processors. The "Aspiration" version contains extensive accessories for the aspiration of titrated-out solutions.



1 PCS

6.2041.830

Sample rack, 28 x 200 mL, (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 28 sample beakers. The following sample beaker can be used: 6.1459.310.

Plastic: Polyvinyl chloride (PVC)



1 PCS

6.06000.000

OMNIS Software storage device

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



1 PCS

6.06003.012

OMNIS stand-alone license with 2 instrument licenses

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

Features:

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



Optional accessories

Order no.	Description
6.0277.300	iAquatrode Plus with Pt1000 Intelligent, combined pH electrode with integrated memory chip for storing sensor data and with Pt1000 temperature sensor for pH measurements/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. iTrodes can be connected to Titrando, Ti-Touch, or 913/914 meters.
6.0278.300	iUnitrode with Pt1000 Intelligent, combined pH electrode with integrated memory chip for storing sensor data and Pt1000 temperature sensor. This electrode is particularly suitable: • for pH measurements and titrations in difficult, viscous, or alkaline samples • at elevated temperatures • for long-term measurements The fixed ground-joint diaphragm is insensitive to contamination. Reference electrolyte: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution. Alternatively: reference electrolyte for measurements at $T > 80^\circ\text{C}$: Idrolyte, storage in Idrolyte. iTrodes can be connected to Titrando, Ti-Touch or 913/914 meters.



6.0280.300

iEcotrode Plus

Intelligent, combined pH electrode with integrated memory chip for storing of sensor data. This electrode is suitable for aqueous acid/base titrations.

The fixed ground-joint diaphragm is insensitive to contamination.
Reference electrolyte: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution.
iTrodes can be connected to Titrando, Ti-Touch or 913/914 meters.



6.0471.300

iPt Titrode

Combined platinum ring electrode with a pH glass membrane as reference electrode and integrated memory chip for storing sensor data. This maintenance-free electrode is suitable for redox titrations when the pH value remains constant, e.g.:

- Iodometry
- Chromatometry
- Cerimetry
- Permanganometry

This electrode is stored in distilled water.
iTrodes can be used on Titrando, Ti-Touch oder 913/914 meters.



6.2307.100

Buffer solution pH 4 (500 mL)

Ready-to-use buffer solution $\text{pH} = 4$ (25 °C), colored, with closure seal



6.2307.110 Buffer solution pH 7 (500 mL)
Ready-to-use buffer solution pH = 7 (25 °C), colored, with closure seal



6.2307.120 Buffer solution pH 9 (500 mL)
Ready-to-use buffer solution pH = 9 (25 °C), colorless, with closure seal



6.2325.000 pHit kit
Maintenance kit for pH electrodes

The kit contains:

- 50 mL cleaning solution
- 50 mL 3M KCl solution
- 50 mL storage solution
- 2 Storage vessels
- Instructions for use



6.06003.010 OMNIS Stand-Alone license

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