



Fully automated water analysis

MATi 01

PC-controlled, fully automatic water analysis system with a rapid measurement system for the precise sample transfer of 100 mL samples. After the conductivity measurement, pH value, alkalinity and Ca/Mg content are determined in an external cell. A maximum of 59 samples can be placed on the rack. The control of this system is handled by the proven OMNIS software.

Phạm vi giao hàng MATi 01

Qt.	Order no.	Description
1 PCS	2.786.0030	786 Swing Head with titration swing arm, left- or right-swinging
		Additional equipment for Robotic Sample Processors XL for direct titration in sample vessels of 75 mL and more.



1 PCS

2.786.0040

786 Swing Head

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



3 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

2.802.0040

802 Stirrer for 804 Ti Stand

Rod stirrer including 6.1909.010 stirring propeller.



1 PCS

2.804.0010

804 Ti Stand without stand rod

Titration stand and controller for 802 Stirrer. The 804 Ti Stand together with the optional 802 Stirrer provides an alternative to the magnetic stirrer. Without stand.



Robotic USB Sample Processor XL with two workstations and four built-in membrane pumps for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. 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.

Conductivity measuring module as supplement to an existing Titrand system or "stand-alone" in combination with a 900 Touch Control. With the 856 Conductivity Module, not only conductivity and temperature can be determined, but also TDS and salinity. It supports state-of-the-art conductivity measuring cells, i.e. 5-ring measuring cells.



The Conductivity Module is equipped with two USB interfaces for connecting printers, barcode readers, or sample changers and four MSB interfaces for stirrers or Dosinos.

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.

High-end titrator for potentiometric titration with two measuring interfaces 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



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 6.1543.210 3-way stopper with antidiffusion valve
Stopper with three buret tips for connecting 3 x M6 tubing



3 PCS 6.1608.023 Amber glass bottle / 1000 mL / GL 45
For Exchange Units. Bottle for auxiliary solutions.



2 PCS 6.1801.000 PVC tubing / 4 mm / 7 mm / 1 m



1 PCS 6.1805.110 FEP tubing / M6 / 80 cm
With light and kink protection



2 PCS

6.1808.050

Tubing adapter olive / M8 outer

1 M8 outer thread and 1 tubing olive. E.g. for thermostat jacket of exchange units and stability measuring instruments.



1 PCS

6.1819.020

Tube

For M6 threaded holes. For 6.1602.1XX bottle attachments



1 PCS

6.2001.070

Support stand for Sample Processors

Support stand for Sample Processors, for external titrations and dilutions (IC)



1 PCS

6.2041.840

Sample rack, 59 x 120 mL, (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 59 sample beakers. The following sample beakers can be used: 6.1459.300, 6.1459.307.

Plastic: Polyvinyl chloride (PVC)

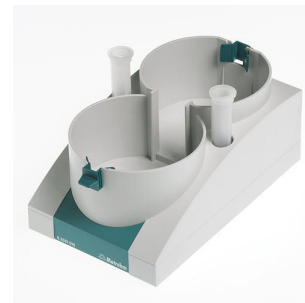


1 PCS

6.2061.010

Bottle holder for Dosinos

Bottle holder for up to two Dosinos, mounted on 1 L reagent bottles.



2 PCS

6.2151.000

Cable USB A – mini-DIN 8-pin

Controller cable



1 PCS

6.2307.100

Buffer solution pH 4 (500 mL)

Ready-to-use buffer solution pH = 4 (25 °C), colored, with closure seal



1 PCS

6.2307.110

Buffer solution pH 7 (500 mL)

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



1 PCS

6.2307.120

Buffer solution pH 9 (500 mL)

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



1 PCS

6.2324.010

Conductivity standard 100 μ S/cm 250 mL

Conductivity standard for calibration of conductivity measuring cells with cell constant = 0.1/cm.



1 PCS

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



1 PCS

6.2730.080

Screw nipple

PCTFE. Used with 6.5613.000 ECO titration equipment with 722 Stirrer



1 PCS

6.2739.000

Wrench

For tightening connectors



1 PCS

6.3032.210

807 Dosing Unit 10 mL

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.



2 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.



1 PCS

6.0510.100

Combined polymer membrane electrode, Ca

Combined calcium-selective electrode with polymer membrane.
This ISE is suitable for:

- ion measurements of Ca^{2+} ($5 \cdot 10^{-7}$ to 1 mol/L) in aqueous solutions
- complexometric (back) titrations (e.g., determination of water hardness)



Thanks to a robust/break-proof plastic shaft made of propylene and an impact protection for the polymer membrane, this sensor is mechanically very resistant.

The reference electrolyte used is $c(\text{NH}_4\text{NO}_3) = 1 \text{ mol/L}$.

Titration vessel lid for external use with the 6.1415.250 titration vessel base in automation.



For holding together different cables or tubing.



Combined pH electrode with integrated 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.



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



1 PCS

6.2104.020

Electrode cable / 1 m / F

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



1 PCS

6.2327.000

Electrolyte NH₄NO₃ 1 mol/L (50 mL)

Electrolyte solution c(NH₄NO₃) = 1 mol/L (for combined Ca-ISE 6.0510.100)



1 PCS

6.9958.007

Overflow buret (100 mL) for Sample Processor

Overflow buret for rapid and automatic measuring of 100 mL of sample and for sample transfer into an external titration vessel.



1 PCS

6.0920.100

5-ring conductivity measuring cell c = 0.7 cm⁻¹ with Pt1000 (fixed cable 2 m)

5-ring conductivity measuring cell with cell constant c = 0.7 cm⁻¹ (guide value), with integrated Pt1000 temperature sensor and fixed cable (2.0 m) for connecting to an 856 Conductivity Module in combination with a sample changer.

This sensor is suitable for automated measurements of medium conductivities (5 µS/cm to 20 mS/cm), e.g., in:

- drinking water
- surface water
- wastewater



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 two OMNIS instrument licenses.
- Must be activated via the Metrohm licensing portal.



1 instrument license for operating one additional OMNIS instrument in OMNIS Stand-Alone.

The following instruments are supported:

- OMNIS instruments
- Metrohm USB devices
- RS-232 instruments (e.g., balance)



Phụ kiện tùy chọn

Order no.	Description
6.06003.010	OMNIS Stand-Alone license 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.

