



# USP 645

MATi 14

USP 645281USP3OMNIS

## MATi 14

Qt.	Order no.	
2 PCS	<b>2.786.0040</b>	<b>786 Swing Head</b>
Additional equipment for Robotic Sample Processors XL without titration or transfer heads.		



2 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).



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1 PCS

**2.802.0040**

**802 Stirrer for 804 Ti Stand**

Rod stirrer including 6.1909.010 stirring propeller.



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1 PCS

**2.815.0130**

**815 Robotic USB Sample Processor XL (2T/0P)**

Robotic USB Sample Processor XL for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. Up to four pumps (membrane or peristaltic) and 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.



Membrane pump for direct connection to Sample Processors. The «Aspiration» version contains numerous accessories for aspirating off solutions.



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.



**Module for pH/ion measurement as supplement to a Titrand or "stand-alone" in combination with a 900 Touch Control.**

In addition to measurements of pH, temperature, mV, I<sub>pol</sub>, U<sub>pol</sub> and concentration, the pH Module can perform standard additions (manual, dos, autos) and Liquid Handling (add, prep, empty). It enables the use of both conventional and intelligent sensors for measuring. Also integrated in the software is an automatic GLP-compliant pH electrode test.

The pH Module has two USB interfaces for connecting printers, barcode readers or sample changers and four MSB interfaces for stirrers or Dosinos (for the addition of auxiliary solutions or for standard addition).

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.



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.



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 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)



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.
- Not transferable to another computer.



1 PCS

**6.0916.040****Conductivity measuring cell c = 0.1 cm<sup>-1</sup> with Pt1000 (fixed cable)**

Conductivity measuring cell made of stainless steel with cell constant  $c = 0.1 \text{ cm}^{-1}$  (guide value), with integrated Pt1000 temperature sensor and fixed cable (1.2 m) for connecting to an 856 Conductivity Module. This sensor is suitable for measurements of low conductivities (0  $\mu\text{S/cm}$  to 300  $\mu\text{S/cm}$ ) in e.g., deion. water or for measurements in accordance with USP <645>.



1 PCS

**6.1418.250****Titration vessel with thermostat jacket / 50-150 mL**

28 PCS

**6.1432.320****Sample beaker, clear glass, 250 mL, 1 piece**

Sample beaker, clear glass, 250 mL, suitable for sample racks: 6.2041.310, 6.2041.400, 6.2041.430, 6.2041.510, 6.2041.820, 6.2068.020 and 6.2068.030, 1 piece



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

**6.1462.070**

**Robotic arm with holder for titration head, right swinging**

Titration head holder to 786 Swing Head



1 PCS

**6.1462.260**

**Robotic arm with holder for titration head, left swinging, external**

Titration head holder for 786 Swing Head with possibility of swinging to external positions



2 PCS

**6.1805.120**

**FEP tubing / M6 / 100 cm**

With light and kink protection



1 PCS

**6.1909.010**

**Stirring propeller / 87 mm**

Propeller stirrer, length from lower edge of SGJ: 96 mm. For use with beakers with 722, 802 Rod Stirrer



28 PCS

**6.2037.060**

**Lid for 250 mL sample beaker**

Lid for 250 mL sample vessels in use with the Dis-Cover robotic arm on the Sample Processor.



1 PCS

**6.2041.820**

**Sample rack, 28 x 250 mL, (PVC)**

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" suitable for 28 sample beakers. The following sample beakers can be used: 6.14332.320, 6.1432.323, 6.1453.220, 6.1453.250.

Plastic: Polyvinyl chloride (PVC)



1 PCS

**6.2058.050**

**Fastening plate for deflector and holder for collection container**

The fastening plate is mounted at the side of the Sample Processor tower and allows the mounting of a deflector for the automatic pulling off the used tools.



1 PCS

**6.2104.600**

**Electrode cable for plug in head U/plug F, 2x2 mm B, 1m**

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



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2 PCS

**6.2151.000**

**Cable USB A – mini-DIN 8-pin**

Controller cable



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1 PCS

**6.2307.100**

**Buffer solution pH 4 (500 mL)**

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



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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

**6.2324.010**

**Conductivity standard 100  $\mu$ S/cm 250 mL**

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



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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



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1 PCS

**6.3032.120**

**807 Dosing Unit 2 mL**

807 Dosing Unit with integrated data chip with 2 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.



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1 PCS

**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.



**Order no.**

**6.06003.010**

**OMNIS Stand-Alone license**

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- Not transferable to another computer.

