



Fully automated determination of the permanganate index in accordance with DIN EN ISO 8467

MATi 13

Automated system for the determination of the permanganate index in accordance with DIN EN ISO 8467. Up to 24 samples can be placed on the rack and processed within one series. The sample is pipetted from the sample beaker into the external titration cell and analyzed completely automatically in accordance with the requirements of the DIN standard. After the titration, the external cell is cleaned thoroughly using the membrane pumps built into the sample changer. The system is controlled by the OMNIS software.

The thermostat for heating the external titration vessel must be ordered separately.

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 13

Qt.	Order no.	Description
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1 PCS

6.9915.078

Holder for transfer tubing, 25 mL

The 25 mL transfer tubing can be coiled up neatly and mounted on the guide chain of the Sample Processor with the help of the holder.



1 PCS

6.9915.079

Transfer tubing 25 mL

The 25 mL 2x M8 transfer tubing is mounted to the guide chain of the Sample Processor with the help of the 6.9915.078 holder



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).



Magnetic stirrer without stand for supplementing the Titrino plus, Dosimat plus, Titrandos, Sample Processors, 805 Dosimats and 780/781 pH Meters. With permanently attached cable for MSB (Metrohm Serial Bus).



USB Sample Processor with one workstation and two built-in membrane pumps for the automatic processing of routine samples in series with small to medium quantities. In addition to the built-in pumps, up to three dosing devices for Liquid Handling tasks can be connected.

Because of the multitude of application variants, rack, stirrer, titration head, 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.



High-end titrator for potentiometric and volumetric Karl Fischer titration with one measuring interface and Dosino dosing units.

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



1 PCS

6.1110.100

Pt1000 temperature sensor (installation length 12.5 cm)

Pt1000 temperature sensor (class B) made of glass.

This PT1000 temperature sensor is also available under the article number 6.1110.110 with an installation length of 17.8 cm.



1 PCS

6.1414.060

Micro titration vessel lid / ECO



1 PCS

6.1418.220

Titration vessel with thermostat jacket / 20-90 mL



30 PCS

6.1432.210

Sample beaker, clear glass, 75 mL, 1 piece

Sample beaker, clear glass, 75 mL, suitable for sample racks: 6.2041.340, 6.2041.350, 6.2041.800 and 6.2041.900, 1 piece



1 PCS

6.1462.040

Robotic arm with transfer head for 786 Swing Head,
right swinging

Transfer robotic arm for liquid handling purposes



1 PCS

6.1543.210

3-way stopper with antidiffusion valve

Stopper with three buret tips for connecting 3 x M6 tubing



3 PCS

6.1805.060

FEP tubing / M6 / 60 cm

With light and kink protection



2 PCS

6.1805.130

FEP tubing / M6 / 120 cm

With light and kink protection



1 PCS

6.1821.070

Aspiration tip M8 with M10 screw nipple

For aspirating reagent in combination with 803 Ti Stand and volumetric Karl Fischer cell. The aspiration tip fits tubing with an M8 thread. The attached tubing nipple has an M10 thread.



1 PCS

6.2001.070

Support stand for Sample Processors

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



2 PCS

6.2013.010

Clamping ring

For support rods with a diameter of 10 mm.



30 PCS

6.2037.040

Foil holder

Foil holder for 75 mL sample beaker for Karl Fischer for KF Sample Changer



1 PCS

6.2041.340

Sample rack, 24 x 75 mL, (PVC)

Sample rack for 810 Sample Processor, 814 USB Sample Processor, 855 Robotic Titrosampler "Light", suitable for 24 sample beakers. The following sample beakers can be used: 6.1432.210, 6.1459.400.

Plastic: Polyvinyl chloride (PVC)

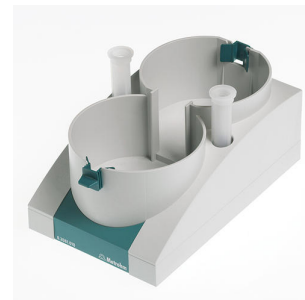


1 PCS

6.2061.010

Bottle holder for Dosinos

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



1 PCS

6.2104.080

Electrode cable 1 m, 2xB

With banana plug 4 mm dia. For connecting electrodes with Metrohm plug-in head G to measuring instrument.



1 PCS

6.2151.000

Cable USB A – mini-DIN 8-pin

Controller cable



5 PCS

6.2730.030

Stopper

Complete with nipple and O-ring. For 6.1414.030 titration vessel lids. For KF instruments, VA measurement stands, VA Computrace and IC Dilution.



3 PCS

6.2730.060

Screw nipple

PCTFE. With M16 thread. Used with 6.5613.000 ECO titration equipment



1 PCS

6.2820.000

Al foil

1000 circular sheets of 80 mm diameter. Thickness: 0.010 mm. Used together with 6.2037.030 Foil holder for 6.1432.210 Sample beaker. For 674 KF Sample Changer



2 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.



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.



Outer thread M6, inner thread M8.



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 PCS

6.2104.030

Electrode Cable 2 m / F

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



1 PCS

6.0431.100

Pt Titrode

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

This maintenance free electrode is well suited for redox titrations when the pH value remains constant, e.g.:

- iodometry
- chromatometry
- cerimetry
- permanganometry

This electrode is stored in deion. water.



Optional accessories

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.

