




## Accessories for MATi 01

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 01

Qty.	Order no.	Description	
1 pcs	2.786.0030	<b>786 Swing Head with titration swing arm, left- or right-swinging</b> Additional equipment for Robotic Sample Processors XL for direct titration in sample vessels of 75 mL and more.	
1 pcs	2.786.0040	<b>786 Swing Head</b> Additional equipment for Robotic Sample Processors XL without titration or transfer heads.	
3 pcs	2.800.0010	<b>800 Dosino</b> 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 (propeller stirrer) for 804 Ti Stand**  
Rod stirrer with 6.1909.010 Propeller stirrer.



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**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.



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**1 pcs**     **2.815.0120**     **815 Robotic USB Sample Processor XL (2T/4P)**

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.



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**1 pcs    2.856.0010    856 Conductivity Module**

Conductivity measuring module as supplement to an existing Titrando 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.

Thanks to the galvanically isolated measuring input, pH value and conductivity can be measured in the same beaker without interference.

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.

Both in conjunction with the 900 Touch Control as stand-alone instrument and also integrated in *tiamo*<sup>TM</sup> full (from 2.0), it is in compliance with GLP and FDA 21 CFR part 11 requirements.




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**1 pcs    2.905.0020    905 Titrando**

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 *tiamo* PC software or Touch Control unit
- Compliance with GMP/GLP and FDA regulations such as 21 CFR Part 11, if required




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**1 pcs    6.0257.600    Aquatrode plus with Pt1000**

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.




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**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  $\text{Ca}^{2+}$  ( $5 \cdot 10^{-7}$  to  $1 \text{ mol/L}$ ) 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  $c(\text{NH}_4\text{NO}_3) = 1 \text{ mol/L}$ .



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**1 pcs    6.0920.100    5-ring conductivity measuring cell  $c = 0.7 \text{ cm}^{-1}$  with Pt1000 (fixed cable 2 m)**

5-ring conductivity measuring cell with cell constant  $c = 0.7 \text{ cm}^{-1}$ , 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  $\mu\text{S/cm}$  to 20  $\text{mS/cm}$ ), e.g., in:

- drinking water
- surface water
- wastewater



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**1 pcs    6.1414.080    Titration vessel lid automation**

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



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**1 pcs    6.1415.250    Titration vessel / 50-150 mL**

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**1 pcs    6.1459.300    Sample beakers, plastic (PP), 120 mL / 250 pieces**

Sample beakers, 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



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**1 pcs    6.1543.210    3-way stopper with antidiffusion valve**

Stopper with three buret tips for connecting 3 x M6 tubing



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**3 pcs**    **6.1608.023**    **Amber glass bottle / 1000 mL / GL 45**

For Exchange Units. Bottle for auxiliary solutions.



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**2 pcs**    **6.1801.000**    **PVC tubing / 4 mm / 7 mm / 1 m**



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**1 pcs**    **6.1805.110**    **FEP tubing / M6 / 80 cm**

With light and kink protection



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**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.



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**1 pcs**    **6.1815.010**    **Spiral band 0.5 m**

For holding together different cables or tubing.



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**1 pcs**    **6.1819.020**    **Tube**  
For M6 threaded holes. For 6.1602.1XX bottle attachments



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**1 pcs**    **6.2001.070**    **Support stand for Sample Processors**  
Support stand for Sample Processors, for external titrations and dilutions (IC)



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**1 pcs**    **6.2041.840**    **Sample rack 59 x 120 mL**  
Sample rack for 59x120 mL samples (6.1459.300), multi-row



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**1 pcs**    **6.2061.010**    **Bottle holder for Dosinos**  
Bottle holder for up to two Dosinos, mounted on 1 L reagent bottles.



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**1 pcs**    **6.2104.020**    **Electrode cable / 1 m / F**  
For connecting electrodes with Metrohm plug-in head G to Metrohm instruments (socket F).



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- 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



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



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- 1 pcs**    **6.2324.010**    **Conductivity standard 100 µS/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    6.2327.000    Electrolyte NH<sub>4</sub>NO<sub>3</sub> 1 mol (50 mL)**

Electrolyte solution  $c(\text{NH}_4\text{NO}_3) = 1 \text{ mol/L}$  (for combined Ca-ISE 6.0510.100)


**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    Dosing Unit 10 mL**

Dosing unit with integrated data chip with 10 mL glass cylinder and light protection, mountable on reagent bottle with ISO/DIN GL45 thread. FEP tubing connection, anti-diffusion buret tip.


**2 pcs    6.3032.220    Dosing Unit 20 mL**

Dosing unit with integrated data chip with 20 mL glass cylinder and light protection, mountable on reagent bottle with ISO/DIN GL45 thread. FEP tubing connection, anti-diffusion buret tip.



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**1 pcs**    **6.6056.252**    **Tiamo 2.5 Full CD: 1 license**



Computer program for controlling complex titration systems.

- Graphical method editor with numerous templates
- Layout manager for individual monitor interface
- Professional database with reevaluation
- Export to LIMS, NuGenesis, Cyberlab, etc.
- High-performance report generator
- In compliance with the directives according to FDA 21 CFR Part 11
- Parallel titration
- Dialog languages: German, English, French, Italian, Spanish, Portuguese, Polish, Russian, Slovakian, Czech, Japanese, Chinese and Traditional Chinese

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**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.

