OMNIS Basic Titrator with magnetic stirrer

2.1001.0120

Innovative, modular potentiometric OMNIS Titrator for stand-alone operation or as the core of an OMNIS titration system for endpoint titration. Thanks to 3S Liquid Adapter technology, handling chemicals is more secure than ever before. The titrator can be freely configured with measuring modules and cylinder units and can have a rod stirrer added as needed. If required, the range of functions of the OMNIS Basic Titrator can be supplemented with a corresponding software function license.

– Control via PC or local network
– Connection option for up to four additional titration or dosing modules for additional applications or auxiliary solutions
– Connection option for one rod stirrer
– Various cylinder sizes available: 5, 10, 20 or 50 mL
– Liquid Adapter with 3S technology: Secure handling of chemicals, automatic transfer of the original reagent data of the manufacturer

Measuring modes and software options:

– Endpoint titration: "Basic" function license

– Endpoint and equivalence point titration (monotonic/dynamic): "Advanced" function license
– Endpoint and equivalence point titration (monotonic/dynamic) with parallel titration: "Professional" function license

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 2.1001.0120

Order Number	Description	Quantity
6.01600.010	**OMNIS Liquid Adapter** Adapter for connecting reagent bottles with 3S technology to an OMNIS Titrator, Titration Module or Dosing Module.	1 PCS
6.01601.000	**Bottle cap, multi-use** Reusable bottle cap with 3S technology for connecting reagent bottles to an OMNIS Titrator, Titration Module or Dosing Module.	1 PCS
6.1608.020	**Glass bottle / 1000 mL / GL 45** Bottle for auxiliary solutions.	1 PCS

6.1903.020

Stirring bar / 16 mm 1 PCS

Stirring Bar with magnetic core, PTFE coated, length 16 mm

6.1903.030

Stirring bar / 25 mm 1 PCS

Stirring bar with magnetic core, PTFE covering, length 25 mm.

6.02005.000

OMNIS electrode holder 1 PCS

Electrode holder for one OMNIS titration system.

6.2013.010

Clamping ring 1 PCS

For support rods with a diameter of 10 mm.

6.2016.050 **Support rod / 300 mm** 1 PCS

6.06001.900 **Function license Basic** 1 PCS

Function license "Basic" for one OMNIS Titrator

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– Liquid Handling (LQH)
– MEAS U/T/pH
– MEAS CONC (direct measurement and standard addition)
– Calibration (Cal)
– Endpoint titration without conditioning (SET)
– Titration with OMNIS Titration Module or OMNIS Dosing Module
– Parallel dosing

6.1546.030 **Piston tongs** 1 PCS

For pistons for 807 Dosing Units or cylinder units OMNIS.

6.02005.010

Electrode Parking Station 1 PCS

Electrode Parking Station for electrode storage on an OMNIS titration system.

6.02004.010

Bottle holder 1 PCS

Bottle holder for OMNIS Titrator, Titration Module and Dosing Module.

Optional accessories

6.02102.010
Cable MDL PL/SO 0.5 m

Connecting cable for OMNIS instruments with MDL connector (0.5 m)

6.02102.020
Cable MDL PL/SO 1 m

Connecting cable for OMNIS instruments with MDL connector (1 m)

6.02102.030
Cable MDL PL/SO 2 m

Connecting cable for OMNIS instruments with MDL connector (2 m)

6.02102.040
Cable MDL PL/SO 5 m

Connecting cable for OMNIS instruments with MDL connector (5 m)

6.02102.050
Cable MDL PL/SO 10 m

Connecting cable for OMNIS instruments with MDL connector (10 m)

6.06006.000
Function license Upgrade Basic-Advanced

Function license for the upgrade of one OMNIS Titrator: Basic to Advanced.

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6.06006.010
Function license Upgrade Basic-Professional

Function license for the upgrade of one OMNIS Titrator: Basic to Professional.

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2.1002.0010
OMNIS Titration Module without stirrer

Titration module for connection to an OMNIS Titrator for extending the system to include an additional buret for titration /dosing and up to two measuring modules (analog or digital). Can be supplemented with one magnetic stirrer or rod stirrer for use as separate titration stand. Freely selectable cylinder unit with 5, 10, 20 or 50 mL.

2.1002.0110
OMNIS Titration Module with magnetic stirrer

Titration module with magnetic stirrer for connection to an OMNIS Titrator for extending the system to include an additional titration stand, a buret for titration/dosing and up to two measuring modules (analog or digital). Freely selectable cylinder unit with 5, 10, 20 or 50 mL.

2.1042.0010
Dosino Module (cable 0.75 m)

The Dosino Module is a high-precision drive for the space-saving extension of an OMNIS titration system to include an additional intelligent buret for titrations, dosings, and other liquid handling tasks. With permanently attached cable (length 0.75 m).

2.1042.0020
Dosino Module (cable 2 m)

The Dosino Module is a high-precision drive for the space-saving extension of an OMNIS titration system to include an additional intelligent buret for titrations, dosings, and other liquid handling tasks. With permanently attached cable (length 2 m).

2.1003.0010
OMNIS Dosing Module without stirrer

Dosing module for connection to an OMNIS Titrator for extending the system to include an additional buret for titration/dosing. Can be supplemented with one magnetic stirrer or rod stirrer for use as separate titration stand. Freely selectable cylinder unit with 5, 10, 20 or 50 mL.

2.1003.0110
OMNIS Dosing Module with magnetic stirrer

Dosing module with magnetic stirrer for connection to an OMNIS Titrator for extending the system to include an additional titration stand and a buret for titration/dosing. Freely selectable cylinder unit with 5, 10, 20 or 50 mL.

2.1006.0020
OMNIS Rod Stirrer Titration

Rod stirrer for connection to one OMNIS Titrator (cable length 1.1 m).

6.01900.010
Stirring propeller 30 mm ETFE

Stirring propeller 30 mm ETFE with adjustable height for use with Rod Stirrer "Titrator" or Rod Stirrer "Sample Robot"

6.01900.020
Stirring propeller 13 mm ETFE

Stirring propeller 13 mm ETFE with adjustable height for use with Rod Stirrer "Titrator" or Rod Stirrer "Sample Robot"

6.01900.030
Stirring propeller 20 mm ETFE

Stirring propeller, 20 mm, with adjustable height for use with Rod Stirrer "Titrator" or Rod Stirrer "Sample Robot"

6.03001.120
Cylinder unit OMNIS 2 mL

Intelligent 2 mL cylinder unit for an OMNIS Titrator, Titration Module or Dosing Module. Includes dosing tubing and antidiffusion tip.

6.03001.150
Cylinder unit OMNIS 5 mL

Intelligent 5 mL cylinder unit for an OMNIS Titrator, Titration Module or Dosing Module. Includes dosing tubing and antidiffusion tip.

6.03001.210
Cylinder unit OMNIS 10 mL

Intelligent 10 mL cylinder unit for an OMNIS Titrator, Titration Module or Dosing Module. Includes dosing tubing and antidiffusion tip.

6.00200.300
dUnitrode with Pt1000

Digital, combined pH electrode for OMNIS with integrated Pt1000 temperature sensor. This electrode is particularly suitable for :
- pH measurements and titrations in difficult, viscous, or alkaline samples
- at elevated temperatures
- long-term measurements

The fixed ground-joint diaphragm is insensitive to contamination.
Reference electrolyte: c(KCl) = 3 mol/L, storage in storage solution.
Alternatively: Reference electrolyte for measurements at T>80°C: Idrolyte, storage in Idrolyte.
dTrodes can be used on OMNIS Titrators.

6.03001.220
Cylinder unit OMNIS 20 mL

Intelligent 20 mL cylinder unit for an OMNIS Titrator, Titration Module or Dosing Module. Includes dosing tubing and antidiffusion tip.

6.00201.300
dEcotrode Plus

Digital, combined pH electrode for OMNIS.
The electrode is suitable for aqueous acid/base titrations.
The fixed ground-joint diaphragm is insensitive to contamination.
Reference electrolyte: c(KCl) = 3 mol/L, storage in storage solution.
dTrodes can be used on OMNIS Titrators.

6.03001.250
Cylinder unit OMNIS 50 mL

Intelligent 50 mL cylinder unit for an OMNIS Titrator, Titration Module or Dosing Module. Includes dosing tubing and antidiffusion tip.

6.00202.300
dAquatrode Plus with Pt1000

Digital, combined pH electrode for OMNIS, 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(KCl) = 3 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(KNO_3) = 1 mol/L (6.2310.010)). Storage in the bridge electrolyte used.
dTrodes can be used on OMNIS Titrators.

6.00203.300
dSolvotrode

Digital, combined pH electrode for OMNIS for all non-aqueous acid/base titrations. The glass membrane is optimized for poorly conducting solutions and thanks to the flexible ground-joint diaphragm, the electrode is suitable for contaminated samples.

This electrode can be used with non-aqueous reference electrolytes (lithium chloride or tetraethylammonium bromide).

Storage in corresponding reference electrolyte.
dTrodes can be used on OMNIS Titrators.

6.01503.120
Cylinder unit OMNIS 2 mL without accessories

Intelligent cylinder unit OMNIS 2 mL with four M6 ports for OMNIS Titrator, Titration Module, Dosing Module or OMNIS Dosing Drive Unit.

6.00204.300
dProfitrode

Digital, combined pH electrode for OMNIS with double-junction system. This electrode is suitable for pH measurements/titrations of samples

- that contaminate the reference system of the electrode (e.g., galvanic baths, samples containing sulfides)
- for which potassium chloride c(KCl) = 3 mol/L cannot be used as reference electrolyte (e.g., reaction of potassium or chloride with sample)

The electrode is equipped with a flexible ground-joint diaphragm which is insensitive to contamination and which can be exchanged when needed.
When c(KCl) = 3 mol/L is used as bridge electrolyte, storage in storage solution is recommended.
The bridge electrolyte can be easily replaced with a suitable electrolyte (e.g., potassium nitrate c(KNO_3) = 1 mol/L (6.2310.010)). Storage in the bridge electrolyte used.
dTrodes can be used on OMNIS Titrators.

6.00401.300
dPt Titrode

Digital, combined platinum ring electrode for OMNIS with a pH glass membrane as reference electrode.
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.
dTrodes can be used on OMNIS Titrators.

6.01503.150
Cylinder unit OMNIS 5 mL without accessories

Intelligent cylinder unit OMNIS 5 mL with four M6 ports for OMNIS Titrator, Titration Module, Dosing Module or OMNIS Dosing Drive Unit.

6.00402.300
dAg ring electrode

Digital, combined silver ring electrode for OMNIS with fixed ground-joint diaphragm.
This electrode is suitable for precipitation titrations where the pH value varies (titrant silver nitrate) of, e.g.

– Chloride, Bromide, Iodide
– Sulfides
– Hydrogen sulfide
– Mercaptans
– Cyanides

The fixed ground-joint diaphragm is insensitive to contamination. $c(KNO_3)$ = 1 mol/ L is used as reference electrolyte and for storage.
dTrodes can be used on OMNIS Titrators.

6.01503.210
Cylinder unit OMNIS 10 mL without accessories

Intelligent cylinder unit OMNIS 10 mL with four M6 ports for OMNIS Titrator, Titration Module, Dosing Module or OMNIS Dosing Drive Unit.

6.00403.300
dPt ring electrode

Digital, combined platinum ring electrode for OMNIS with fixed ground-joint diaphragm.
This electrode is suitable for redox titrations when the pH value varies, e.g.:

– Oxygen content according to Winkler
– Determination of hydrogen peroxide with $KMnO_4$
– Diazotization titrations

The fixed ground-joint diaphragm is insensitive to contamination.
c(KCl) = 3 mol/ L is used as reference electrolyte and for storage.
dTrodes can be used on OMNIS Titrators.

6.00502.300
Combined dCa ISE

Digital, combined calcium-selective electrode for OMNIS.
This ISE is suitable for:

– Ion measurements of Ca^{2+} 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(KCl) = 3 mol/L.
dTrodes can be used on OMNIS Titrators.

6.01503.220
Cylinder unit OMNIS 20 mL without accessories

Intelligent cylinder unit 20 mL for one OMNIS Titrator, Titration Module or Dosing Module. Without dosing tubing and antidiffusion tip.

6.01503.250
Cylinder unit OMNIS 50 mL without accessories

Intelligent cylinder unit OMNIS 50 mL with four M6 ports for OMNIS Titrator, Titration Module, Dosing Module or OMNIS Dosing Drive Unit.

6.06001.100
Function license DET

"Dynamic equivalence point titration" function license for one OMNIS titration system.

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6.06001.110
Function license MET

"Monotonic equivalence point titration" function license for one OMNIS titration system.

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6.02106.000
Liquid Adapter extension cable, 0.55 m

Extension cable (0.55 m in length) for connecting an OMNIS Liquid Adapter to an OMNIS Titrator, Titration Module or Dosing Module.

6.02106.010
Liquid Adapter extension cable, 2 m

Extension cable (2 m in length) for connecting an OMNIS Liquid Adapter to an OMNIS Titrator, Titration Module or Dosing Module.

6.02104.300
Electrode cable plug-in head Q / plug P, 0.55 m

Cable for connecting a dTrode (plug-in head Q) to the digital measuring module from OMNIS.

6.02104.310
Electrode cable plug-in head Q / plug P, 1.5 m

Cable for connecting a dTrode (plug-in head Q) to the digital measuring module from OMNIS.

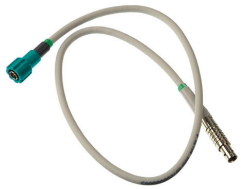
6.02104.600
Electrode cable plug-in head U / plug P, 0.55 m

Cable for connecting an electrode with plug-in head U to an analog measuring module from OMNIS.

6.02104.610
Electrode cable plug-in head U / plug P, 1.5 m

Cable for connecting an electrode with plug-in head U to an analog measuring module from OMNIS.

6.02104.000
Electrode cable plug-in head G / plug P, 0.55 m



Cable for connecting an analog electrode (plug-in head G) to an analog measuring module from OMNIS.

6.02104.010
Electrode cable plug-in head G / plug P, 1.5 m

Cable for connecting an analog electrode (plug-in head G) to an analog measuring module from OMNIS.

6.02104.020
Electrode cable plug-in head G (temp.) / plug P, 0.55 m

Cable for connecting a temperature sensor (head G) to an analog measuring module from OMNIS.

6.02104.030
Electrode cable plug-in head G (temp.) / plug P, 1.5 m

Cable for connecting a temperature sensor (head G) to an analog measuring module from OMNIS.

6.02104.040
Electrode cable plug-in head G (pol.) / plug P, 0.55 m

Cable for connecting an analog polarizable electrode (plug-in head G) to an analog measuring module from OMNIS.

6.02104.050
Electrode cable plug-in head G (pol.) / plug P, 1.5 m

Cable for connecting an analog polarizable electrode (plug-in head G) to an analog measuring module from OMNIS.

6.06001.320
Function license for 5 parallel titrations

Function license for a maximum of five parallel titrations using one OMNIS Titrator with additional Titration Modules or Dosing Modules.

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6.06001.160
Function license KFT with conditioning

Function license for volumetric Karl Fischer titration with conditioning for an OMNIS titration system.

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6.05609.000
KFT equipment for OMNIS Titrator

Complete accessory set for volumetric Karl Fischer titration.

6.05609.010
KFT equipment for OMNIS Titrator with Polytron

Complete accessory set for volumetric Karl Fischer titration with Polytron.

6.02101.011
Measuring module analog

Analog measurement channel for one OMNIS Titrator or Titration Module for the connection of analog electrodes. Compatible with OMNIS software version 2.18 or higher.