



IONIC Titrator with 1 magnetic stirrer

2.1040.0120

As powerful as a computer! With its 10-inch display and its large internal database, the IONIC Titrator provides full convenience with respect to user-friendliness and data handling. Operate it like your mobile telephone or tablet and save thousands of determinations directly to the instrument.

Thanks to the installed mobile communications module, you can upload your determination data directly into Metrohm Data Service, the new cloud data storage from Metrohm – without integration in your local network. This means that the data is available at all times and everywhere.

- pH, voltage, and temperature measurement
- Endpoint titration
- Monotonic equivalence point titration
- Dynamic equivalence point titration
- Over 30 method templates included for the most common potentiometric titrations in the areas of food, nonaqueous titration, and redox and surfactant titrations
- Titration/dosing with up to 4 Dosino Modules (250,000 dosing steps)
- Report output on compact or network printers

Optional titration modes and additional functional enhancements:

- Volumetric Karl Fischer titration
- Compliance with statutory regulations: 21 CFR Part 11; EudraLex, Volume 4, Annex 11
- Option for second titration stand with magnetic or rod stirrer
- Use of up to three analog or digital electrodes

Basic unit for potentiometric titration, version with one digital measuring input and one magnetic stirrer (left).

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 2.1040.0120

Order Number	Description	Quantity
6.1546.030	Piston tongs For pistons for 807 Dosing Units or cylinder units OMNIS.	1 PCS
		
6.2016.050	Support rod / 300 mm	1 PCS
		
6.2013.010	Clamping ring For support rods with a diameter of 10 mm.	1 PCS
		

6.02005.000

OMNIS electrode holder

1 PCS

Electrode holder for one OMNIS titration system.



6.2709.070

Guiding sleeve

1 PCS

For fixation of buret and dosing tips in titration heads and electrode holders



1.1040.0120

IONIC Titrator with 1 magnetic stirrer

1 PCS

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6.02164.020

Power supply unit 100–240 V / 24 V DC 5 A

1 PCS

Power supply unit for IONIC Titrator



6.6083.010

USB flash drive for the IONIC Titrator

1 PCS

This USB flash drive contains example methods and other documents.



6.06009.100

Function license for IONIC potentiometric titrator

1 PCS

Function license for one potentiometric IONIC Titrator. This contains the following modes:

- MEAS U/T/pH
- Calibration (Cal)
- Liquid Handling
- Endpoint titration without conditioning (SET)
- Monotonic equivalence point titration (MET)
- Dynamic equivalence point titration (DET)



6.02712.010

Protective cover for IONIC Titrator display

1 PCS

The protective cover protects the IONIC Titrator display against unintended splashes.



6.06009.028

Function license IONIC magnetic stirrer (1x)

1 PCS

Function license for the operation of the magnetic stirrers. One function license enables the operation of one magnetic stirrer. If two magnetic stirrers are to be operated with the IONIC Titrator, then two licenses must be activated.



Optional accessories

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.

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.

6.3032.150

807 Dosing Unit 5 mL



807 Dosing Unit with integrated data chip with 5 mL glass cylinder and light protection, mountable to a reagent bottle with ISO/DIN GL 45 glass thread. FEP tubing connection, antidiffusion tip.

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.

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.

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: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution.

Alternatively: Reference electrolyte for measurements at $T > 80^\circ\text{C}$: Idrolyte, storage in Idrolyte.

dTodes can be used on OMNIS Titrators.

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: $c(\text{KCl}) = 3 \text{ mol/L}$, storage in storage solution.

dTrodes can be used on OMNIS Titrators.

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 $c(\text{KCl}) = 3 \text{ mol/L}$ 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 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.

6.00204.300

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 $c(\text{KCl}) = 3 \text{ mol/L}$ 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 $c(\text{KCl}) = 3 \text{ mol/L}$ is used as bridge electrolyte, storage in storage solution is recommended.

The bridge electrolyte can be easily replaced with a suitable electrolyte (e.g., potassium nitrate $c(\text{KNO}_3) = 1 \text{ mol/L}$ (6.2310.010)). Storage in the bridge electrolyte used.

dTodes 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.

dTodes can be used on OMNIS Titrators.

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. $c(\text{KNO}_3) = 1 \text{ mol/L}$ is used as reference electrolyte and for storage.

dTrodes can be used on OMNIS Titrators.

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. $c(\text{KCl}) = 3 \text{ mol/L}$ 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 $c(\text{KCl}) = 3 \text{ mol/L}$.

dTrodes can be used on OMNIS Titrators.

6.02104.060

**Electrode cable (pol.) plug P,
0.75 m**



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

6.02104.070

**Electrode cable (temp.) plug P
0.75 m**

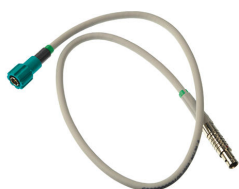


Cable for connecting an analog temperature sensor (plug-in head G) to an analog measuring module or measuring interface.

6.02104.080

Electrode cable plug P, 0.75 m

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



6.02104.320

Electrode cable for plug-in head Q / plug P 0.75 m

Cable for connecting a digital electrode (plug-in head Q) to a digital measuring module or measuring interface.



6.02104.620

Electrode cable for plug-in head U / plug P 0.75 m

Cable for connecting an analog electrode (plug-in head U) to an analog measuring module or measuring interface.



6.05609.020

**KFT accessories for IONIC
Titrator**

Complete accessory set for volumetric Karl Fischer titration with the IONIC Titrator



6.05803.060

**Retrofit set for magnetic
stirrer assembly for IONIC**

This retrofit set contains all of the components necessary for retrofitting the IONIC Titrator with an additional magnetic stirrer.

6.05803.080

**Retrofit set for second
titration stand of the IONIC
Titrator**

This retrofit set contains all of the components necessary for retrofitting the IONIC Titrator with a second titration stand.



6.05803.100

**Upgrade kit Measuring
Interface Analog**

This upgrade kit contains all of the components needed for retrofitting an additional measuring interface analog.



6.05803.120

**Upgrade kit measuring
interface digital**

This upgrade kit contains all of the components needed for retrofitting an additional measuring interface digital.



2.142.0100

Custom Q3X thermal printer

Compact printer with USB interface for



- 900 Touch Control
- 915 KF Ti-Touch
- 916 Ti-Touch
- 917 Coulometer
- 877 / 848 Titrino plus
- 865 / 876 Dosimat plus
- 91X Meter (cable 6.2151.140)
- Eco Dosimat / Titrator
- 862 Compact Titrosampler
- 870 KF Titrino plus
- 899 Coulometer

Paper width 60 mm (40 characters). Including 6.2151.120 USB cable.

2.143.0200

TX-900MH impact printer



Compact impact printer with USB and RS232 interface for

- 900 Touch Control (+)
- 915 KF Ti-Touch (+)
- 916 Ti-Touch (+)
- 917 Coulometer (+)
- 91X Meter (+)
 - Eco Dosimat/Titrator (+)
- 877/848 Titrino plus (additional 6.2151.100 required)
- 865/876 Dosimat plus (additional 6.2151.100 required)
- 862 Compact Titrosampler (additional 6.2151.100 required)
- 870 KF Titrino plus (additional 6.2151.100 required)
- 899 Coulometer (additional 6.2151.100 required)

(+) Cable included in scope of delivery

6.06009.280

**Function license IONIC
Compliance/Regulation**

Function license for the use of the compliance functionalities in connection with the IONIC Titrator.

6.02712.010

**Protective cover for IONIC
Titrator display**



The protective cover protects the IONIC Titrator display against unintended splashes.

6.02061.010

**Bottle holder for IONIC
Titrator**

Bottle holder for up to two 1 L supply bottles. The bottle holder can be positioned at either the rear or the side of the instrument.

