



TitriC Vario pro II – The hyphenated IC and titration system for comprehensive anion and cation analysis

TitriC Vario pro II

TitriC Vario pro II – For the complete analysis of anions and cations.

Fully automatic system for direct measurement of temperature, conductivity and pH value, the titrimetric determination of p and m values, the determination of cations including calcium and magnesium, as well as anions by ion chromatography.

The system consists of the 856 Conductivity Module, two 800 Dosinos, 802 Stirrer (rod stirrer), 905 Titrand, 815 Robotic USB Sample Processor XL, one 930 Compact IC Flex Oven/Deg without suppression and one 930 Compact IC Vario Oven/SeS/PP/Deg with sequential suppression, each with one "iDetector" conductivity detector.

TitriC Vario – The power pack for ion analysis.

Phạm vi giao hàng TitrIC Vario pro II

Order Number	Description	Quantity
2.930.2560	930 Compact IC Flex Oven/SeS/PP/Deg  <p>The 930 Compact IC Flex Oven/SeS/PP/Deg is the intelligent Compact IC instrument with column oven, sequential suppression, peristaltic pump for suppressor regeneration and built-in degasser. The instrument can be used with any separation and detection methods.</p> <p>Typical areas of application:</p> <ul style="list-style-type: none"> – Anion or cation determinations with sequential suppression and conductivity detection 	1 PCS
2.930.2160	930 Compact IC Flex Oven/Deg  <p>The 930 Compact IC Flex Oven/Deg is the intelligent Compact IC instrument with column oven, without suppression and with built-in degasser. The instrument can be used with any separation and detection methods.</p> <p>Typical areas of application:</p> <ul style="list-style-type: none"> – Anion and cation determinations without suppression with conductivity detection – Simple applications with UV/VIS or amperometric detection 	1 PCS
6.2832.000	MSM Rotor A  <p>Suppressor rotor for all IC instruments with MSM (Metrohm Suppressor Module)</p>	1 PCS

6.2842.020


Adapter sleeve, MSM

1 PCS

Not only the MSM Rotor A but also the MSM-LC Rotor A can be installed in the rotor housing with the aid of the adapter sleeve.

2.786.0040


786 Swing Head

1 PCS

Additional equipment for Robotic Sample Processors XL without titration or transfer heads.

2.800.0010


800 Dosino (cable: 1.5 m)

2 PCS

The 800 Dosino is a drive with write/read hardware for intelligent dosing units. With permanently attached cable (length 1.5 m).

2.802.0020


802 Stirrer for sample changer

1 PCS

Rod stirrer for sample changer and Sample Processor. With 104 mm 6.1909.020 stirring propeller and permanently installed cable.

2.815.0020



815 Robotic USB Sample Processor XL (1T/2P)

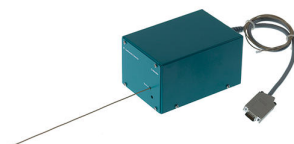
1 PCS

Robotic USB Sample Processor XL with one workstation and two 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.

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.

2.850.9010



IC Conductivity Detector

2 PCS

Compact and intelligent high performance conductivity detector for intelligent IC instruments. Outstanding temperature stability, the complete signal processing within the protected detector block and the latest generation of DSP – Digital Signal Processing – guarantee the highest precision of the measurement. No change of measuring ranges (not even automatic ones) is required, due to the dynamic working range.

2.856.0010



856 Conductivity Module

1 PCS

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.

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.

2.905.0010



905 Titrando

1 PCS

High-end titrator for potentiometric titration with one measuring interface 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 OMNIS Software, *tiamo* software, or Touch Control unit
- Compliance with GMP/GLP and FDA regulations such as 21 CFR Part 11, if required

6.0277.300



iAquatrode Plus with Pt1000

1 PCS

Intelligent, combined pH electrode with integrated memory chip for storing sensor data and with 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.

iTrodes can be connected to Titrando, Ti-Touch, or 913/914 meters.

6.0915.100



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

1 PCS

5-ring conductivity measuring cell with cell constant $c = 0.7 \text{ cm}^{-1}$ (guide value), with integrated Pt1000 temperature sensor and with fixed cable (1.2 m) for connecting to an 856 Conductivity Module.

This sensor is suitable for measurements of medium conductivities, e.g., in:

- drinking water
- surface water
- wastewater

6.1414.060

Micro titration vessel lid / ECO

1 PCS



6.1415.250

Titration vessel / 50-150 mL

1 PCS



6.1462.040

Robotic arm with transfer head for 786 Swing Head, right swinging 1 PCS

Transfer robotic arm for liquid handling purposes



6.1543.170

Aspiration tip / M8 thread

1 PCS

Aspiration tip for the Sample Processors.



6.1543.210

3-way stopper with antidiffusion valve

1 PCS

Stopper with three buret tips for connecting 3 x M6 tubing



6.1608.030

Round glass bottle / 1000 mL / GL 45

1 PCS



6.1618.020

Thread adapter S 40 to GL 45

1 PCS

Adapter for bottles with S40 thread (Merck...) to GL45.



6.1805.030

FEP tubing / M6 / 150 cm

1 PCS

With light and kink protection



6.1805.060

FEP tubing / M6 / 60 cm

1 PCS

With light and kink protection



6.1805.110

FEP tubing / M6 / 80 cm

2 PCS

With light and kink protection



6.1808.010

Coupling piece 2 X M6

1 PCS

2 M6 outer threads. Part of the screw connections for Exchange Units and 676 Sample Changer



6.1808.060

T connector / M6 inner

1 PCS

3 M6 inner threads.



6.1808.280

Adapter 807 Dosing Unit Port 4, M6 inner

1 PCS

Adapter for using Port 4 of the 807 dosing Unit for connection with an FEP tubing / M6.



6.1835.050

PEEK sample tube

1 PCS

For sample changers for transferring larger-sized sample volumes, e.g. for brightener determination.



6.2001.070

Support stand for Sample Processors

1 PCS

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

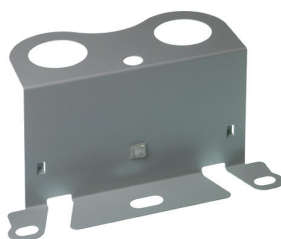


6.2057.210

Holder for Dosino to IC instruments

1 PCS

Mounting part for Dosinos at the IC instrument housing.



6.2134.040

RS-232 DB9 - IBM-PC(DB9) connecting cable

1 PCS

For the Metrohm RS-232 interface - PC connection. For Titrinos, Titrino plus and 756, 831 KF Coulometer, RS-232 /USB Box



6.2148.050

USB/RS-232 Converter for 900 Touch Control

2 PCS

Extends the 900 Touch Control by an RS-232 interface for the connection of e.g. balance.



6.2151.000

Cable USB A – mini-DIN 8-pin

2 PCS

Controller cable



6.2307.230

Buffer solutions pH 4, 7 and 9

1 PCS

Mixed buffer solutions pH 4.00/7.00/9.00 (25 °C) in single use sachets, colourless, box of 3 x 10 x 30 mL



6.2325.000

pHit kit

1 PCS

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



6.2629.000

Screw nut to needle holder IC

1 PCS

On Sample Processors



6.2709.090

Stopper

1 PCS

PTFE. Used with 6.5613.000 ECO titration equipment



6.2730.020

Septum stopper

1 PCS

With E.301.0041 O-ring. For 6.1448.010 Septum and 6.1414.030 Titration vessel lid. Used for KF applications.



6.2730.030


Stopper

5 PCS

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

6.2730.060


Screw nipple

3 PCS

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

6.2730.080


Screw nipple

1 PCS

PCTFE. Used with 6.5613.000 ECO titration equipment with 722 Stirrer

6.2744.070


Pressure screw short

1 PCS

Short version. With UNF 10/32 connection. 5 pieces. For the connection of PEEK capillaries

6.2744.080

M6 thread / UNF 10/32 adapter

2 PCS



With M6 outer thread. For IC instruments.

6.2763.000

Flow-through cell for the 6.0915.100/6.0920.100

1 PCS



Flow-through cell for the 6.0915.100/6.0920.100 5-ring conductivity measuring cell

6.2833.000

Needle/tube holder 1/8 in.

1 PCS



For IC/VA Sample Processors. For 1/8 in. tubes

6.3032.250

807 Dosing Unit 50 mL

1 PCS



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.

6.3032.220

807 Dosing Unit 20 mL

1 PCS



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.

2.854.0010

854 iConnect

1 PCS



The 854 iConnect – Electrode cable and measuring amplifier for intelligent "iTrodes" electrodes (cable length 150 cm).

Phụ kiện tùy chọn

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.

6.2041.800

Sample rack, 100 x 75 mL, (PVC)



Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" suitable for 100 sample beakers. The following sample beakers can be used: 6.1432.210, 6.1459.400. Plastic: Polyvinyl chloride (PVC)

6.2041.810

Sample rack, 34 x 150 mL, (PVC)



Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" suitable for 34 sample beakers. The following sample beakers can be used: 150 mL beaker (tall). Plastic: Polyvinyl chloride (PVC)

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)

6.2041.830

**Sample rack, 28 x 200 mL,
(PVC)**



Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 28 sample beakers. The following sample beaker can be used: 6.1459.310.

Plastic: Polyvinyl chloride (PVC)

6.2041.840

**Sample rack, 59 x 120 mL,
(PVC)**



Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 59 sample beakers. The following sample beakers can be used: 6.1459.300, 6.1459.307.

Plastic: Polyvinyl chloride (PVC)

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

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

6.1459.300

Sample beaker, plastic (PP), 120 mL, 250 pieces



Sample beaker, 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