



TitriC Vario pro III – The professional hyphenated IC and titration system with lockable sample vessels

TitriC Vario pro III

TitriC Vario pro III – The professional solution with closed sample vessels.

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 sample changer is equipped with the DisCover function for automatic sample vessel cover removal.

The system consists of 856 Conductivity Module, two 800 Dosinos, 802 Stirrer (rod stirrer), 905 Titrand, 815 Robotic USB Sample Processor XL and one 940 Professional IC Vario TWO/SeS/PP with two "iDetector" conductivity detectors for anions (sequential suppression) and cations.

TitriC Vario – The power pack for ion analysis.

Phạm vi giao hàng TitriC Vario pro III

Qt.	Order no.	Description
-----	-----------	-------------

The 940 Professional IC Vario TWO/SeS/PP is the intelligent two-channel IC instrument with sequential suppression (one channel) and a peristaltic pump for suppressor regeneration. The instrument can be used with any separation and detection methods.

Typical areas of application:

- Standard instrument for parallel anion and cation determinations
- Trace analysis for anions and cations
- Online monitoring for anions and cations



Suppressor rotor for all IC instruments with MSM (Metrohm Suppressor Module)



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.



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



The 800 Dosino is a drive with write/read hardware for intelligent Dosing Units. With fixed cable (length 150 cm).



Rod stirrer including separate 6.2137.000 speed controller and 6.1909.010 stirring propeller.



Robotic USB Sample Processor XL with two workstations 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. In addition to the built-in pumps, up to two additional pumps (membrane or peristaltic) and 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.



Conductivity measuring module as supplement to an existing Titrand 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.

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



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.

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 ($5 \mu\text{S/cm}$ to 20 mS/cm), e.g., in:

- drinking water
- surface water
- wastewater



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

Transfer robotic arm for liquid handling purposes



1 PCS

6.1462.080

Dis-Cover Robotic Arm



1 PCS

6.1543.170

Aspiration tip / M8 thread

Aspiration tip for the Sample Processors.



1 PCS

6.1608.030

Round glass bottle / 1000 mL / GL 45

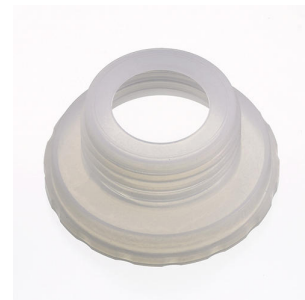


1 PCS

6.1618.020

Thread adapter S 40 to GL 45

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



1 PCS

6.1805.030

FEP tubing / M6 / 150 cm

With light and kink protection



1 PCS

6.1805.110

FEP tubing / M6 / 80 cm

With light and kink protection



1 PCS 6.1805.510 PTFE tubing / M8 / 60 cm

With protection against kinks.



1 PCS 6.1805.010 FEP tubing / M6 / 13 cm

With light and kink protection.



1 PCS 6.1808.060 T connector / M6 inner

3 M6 inner threads.



1 PCS 6.1808.280 Adapter 807 Dosing Unit Port 4, M6 inner

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



1 PCS

6.2001.070

Support stand for Sample Processors

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

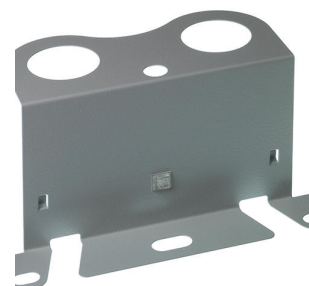


1 PCS

6.2057.210

Holder for Dosino to IC instruments

Mounting part for Dosinos at the IC instrument housing.



1 PCS

6.2134.040

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

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

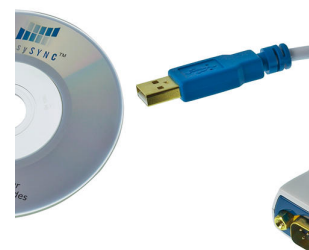


1 PCS

6.2148.050

USB/RS-232 Converter for 900 Touch Control

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



2 PCS 6.2151.000 Cable USB A – mini-DIN 8-pin
Controller cable



1 PCS 6.2307.230 Buffer solutions pH 4, 7 and 9
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



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 6.2629.000 Screw nut to needle holder IC
On Sample Processors



1 PCS

6.2709.090

Stopper

PTFE. Used with 6.5613.000 ECO titration equipment



1 PCS

6.2730.020

Septum stopper

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



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

6.2730.080

Screw nipple

PCTFE. Used with 6.5613.000 ECO titration equipment with 722 Stirrer



1 PCS

6.2744.070

Pressure screw short

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



2 PCS

6.2744.080

M6 thread / UNF 10/32 adapter

With M6 outer thread. For IC instruments.



1 PCS

6.2763.000

Flow-through cell for the 6.0915.100/6.0920.100

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



1 PCS

6.2833.020

Needle holder 1/8 in. With tubing connection M6

For Sample Processors. For the connection of FEP tubing with M6 connectors



1 PCS

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.



1 PCS

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.



2 PCS

2.850.9010

IC Conductivity Detector

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.



1 PCS

6.1543.210

3-way stopper with antidiffusion valve

Stopper with three buret tips for connecting 3 x M6 tubing



1 PCS

2.854.0010

854 iConnect

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



Phụ kiện tùy chọn

Order no.	Description	
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)	A circular white plastic sample rack with 100 wells arranged in a grid. A central blue and black component is visible in the center.
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)	A circular white plastic sample rack with 34 wells arranged in a grid. A central blue and black component is visible in the center.
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)	A circular white plastic sample rack with 28 wells arranged in a grid. A central blue and black component is visible in the center.
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)	A circular white plastic sample rack with 28 wells arranged in a grid. A central blue and black component is visible in the center.

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

