



VoltIC Professional 1 – The linked system made of IC and voltammetry for parallel determination of anions, cations, and heavy metals

VoltIC Professional I

VoltIC Professional 1 is the perfect combination of ion chromatography and voltammetry for simultaneous determination of anions, cations and heavy metals. MagIC Net controls IC instruments, starts voltammetric determination, and summarizes all of the IC and voltammetry results.

Installation instructions

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 VoltIC Professional I

Qt.	Order no.	Description
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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



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.



884 Professional VA semiautomated for Multi-Mode Electrode (MME) is a convenient high-end routine analyzer for trace determinations with voltammetry and polarography with the Multi-Mode Electrode pro or the scTRACE Gold. The proven Metrohm electrode methods in combination with a high-performance potentiostat/galvanostat and the extremely flexible viva software open up new perspectives for the determination of heavy metals. The potentiostat with a certified calibrator readjusts itself automatically before each measurement, thus guaranteeing maximum precision.



Determinations with rotating disc electrodes can also be performed with the instrument, e.g. determinations of organic additives in electroplating baths with "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and chronopotentiometry (CP). The replaceable measuring head enables rapid changes between the various applications with different electrodes.

2x 800 Dosinos (supplied) permit the automatic addition of auxiliary solutions during the determination, e.g., electrolyte, buffer or standard solutions.

The viva software is required for control, data collection, and evaluation.

The 884 Professional VA semiautomated for Multi-Mode Electrode (MME) is supplied with extensive accessories and a measuring head for the Multi-Mode Electrode pro. Electrode set and viva license need to be ordered separately.

The 858 Professional Sample Processor processes samples from 500 µL to 500 mL. The sample transfer takes place either by means of a peristaltic pump on the 850 Professional IC system or with an 800 Dosino.



1 PCS

6.5339.030

VA electrode equipment with Multi-Mode Electrode
pro for Professional VA instruments

Complete electrode set for polarographic and voltammetric determinations. Includes Multi-Mode Electrode pro, reference electrode, platinum auxiliary electrode, measuring vessel, stirrer, electrolyte solution and additional accessories for setting up and operating the Multi-Mode Electrode.



1 PCS

6.1831.020

PEEK capillary 0.75 mm i.d., 22 cm

For all IC components.



1 PCS

2.800.0010

800 Dosino

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



1 PCS

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.

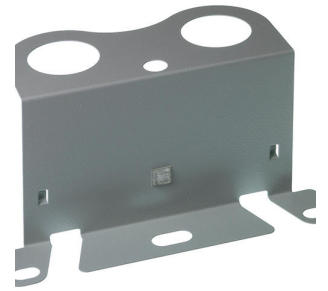


1 PCS

6.2057.210

Holder for Dosino to IC instruments

Mounting part for Dosinos at the IC instrument housing.



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.

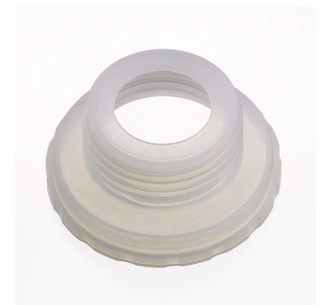


1 PCS

6.1618.020

Thread adapter S 40 to GL 45

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



3 PCS

6.2744.080

M6 thread / UNF 10/32 adapter

With M6 outer thread. For IC instruments.



1 PCS

6.2744.010

Pressure screw 5x

With UNF 10/32 connection. For the connection of PEEK capillaries



1 PCS

6.1808.010

Coupling piece 2 X M6

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



1 PCS

6.1808.060

T connector / M6 inner

3 M6 inner threads.



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

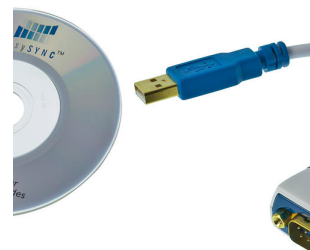


2 PCS

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.



1 PCS

6.2141.300

Remote cable 843 Pump Station to Sample Processor

Remote cable for the direct connection of the 843 Pump Station to the pump connectors of the Sample Processors



1 PCS

2.843.0240

843 Membrane Pump Station for Professional VA /CVS systems

The 843 Membrane Pump Station enables the automatic rinsing and emptying of the measuring vessel in partly automated and fully automated Professional VA and CVS systems. It has two built-in membrane pumps that can be controlled via the remote signal.

The versions for VA and CVS are equipped with the complete accessories for the automatic rinsing and emptying of the measuring vessel.



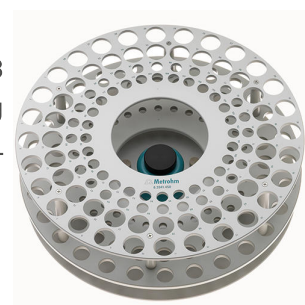
1 PCS

6.2041.450

Sample rack, 56 x 11 mL and 56 x 50 mL (PVC)

Sample rack for 858 Professional Sample Processor, 815 Robotic USB Sample Processor XL, suitable for 112 sample vessels. The following sample vessels can be used: 6.2743.050, 6.2747.010, 6.2743.040, 50 mL Sarstedt vials.

Plastic: Polyvinyl chloride (PVC)



1 PCS

6.2743.050

Sample vessel 11 mL

2000 pieces. For IC Sample Processors and VA Autosamplers.

The IC sample vessels are made of polypropylene (PP) plastic for health-care applications. Production and packaging both take place under sterile and clean room conditions (Clean Room Class 7, in accordance with DIN ISO 14644). This guarantees minimal degrees of contamination. The sample vessels are subjected to random checks for leachable anions and cations.



1 PCS

6.2743.070

Stopper with perforation

2000 pieces. For IC Sample Processors



4 PCS

6.2747.010

Sample vessel 50 mL

With blue screw cap and mL graduation. Set of 25 pieces.



1 PCS

6.1831.080

PEEK capillary 0.75 mm i.d., 110 cm

For Advanced VA Sample Processor



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

6.1805.530

FEP tubing / M6 / 2 m

With light and kink protection



1 PCS

6.1805.020

FEP tubing / M6 / 52 cm

With light and kink protection



Optional accessories

Order no.	Description
6.6059.422	MagIC Net 4.2 Professional: 1 license Professional chromatography software from Metrohm for controlling all intelligent Professional IC systems, Compact IC systems and their peripherals, all detectors and the various Auto samplers, 800 Dosino, 771 Compact Interface, etc. The software permits checks, data acquisition, data evaluation and data monitoring as well as report generation of ion chromatographic analyses. Graphical user interface for routine operations, extensive database programs, method development, configuration and manual control panel; very flexible user management, efficient database operations, extensive data export functions, individually configurable report generator, control and monitoring of all system components and the chromatography results. MagIC Net Professional complies fully with FDA Regulation 21 CFR Part 11 as well as GLP. MagIC Net is available in 15 dialog languages: German, English, Chinese, Traditional Chinese, French, Italian, Spanish, Portuguese, Bulgarian, Czech, Hungarian, Japanese, Korean, Russian, Slovakian With this version, the graphic user interface has been modernized, which improves, among other things, the scaling and sharpness of the user interface on 4K monitors. 1 license The installation and documents are supplied on a USB flash drive.



Client/server-compatible chromatography software from Metrohm for controlling all intelligent Professional IC systems, Compact IC systems and their peripherals, all detectors and the various Autosamplers, 800 Dosino, 771 Compact Interface, etc.

The software permits checks, data acquisition, data evaluation and data monitoring as well as report generation of ion chromatographic analyses. Data and method are centrally stored on a Server.



Graphical user interface for routine operations, extensive database programs, method development, configuration and manual control panel; very flexible user management, efficient database operations, extensive data export functions, individually configurable report generator, control and monitoring of all system components and the chromatography results.

MagIC Net Multi complies fully with FDA Regulation 21 CFR Part 11 as well as with GLP.

MagIC Net is available in 15 dialog languages: German, English, Chinese, Traditional Chinese, French, Italian, Spanish, Portuguese, Bulgarian, Czech, Hungarian, Japanese, Korean, Russian, Slovakian

With this version, the graphic user interface has been modernized, which improves, among other things, the scaling and sharpness of the user interface on 4K monitors.

Performance for client/server systems with servers outside the in-house company network has been improved.

Client/server version with 3 licenses

Computer program for control and data management of Professional VA /CVS instruments. The software permits checks, data acquisition, evaluation, and monitoring, as well as generation of reports.



Graphic user interface for routine operations, extensive database programs with reevaluation, graphic method editor with numerous templates, system configuration, very flexible user management, extensive data export functions, individually configurable report generator.

Includes the "Differential Pulse" (DP), "Square Wave" (SQW), "Linear Sweep Voltammetry" (LSV), "Cyclic Voltammetry" (CV), "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and Chronopotentiometry (CP) measuring modes. The following calibration techniques are supported: Standard addition, external calibration, DT (Dilution Titration), LAT (Linear Approximation Technique), MLAT (Modified Linear Approximation Technique), RC (Response Curve).

Dialog languages: German, English, Chinese, Japanese.

The following instruments are supported: 884 Professional VA, 894 Professional CVS

1 license for a maximum of 4 Professional VA/CVS instruments on a single computer. Contains USB flash drive and installation documentation.
