



940 Professional IC Vario ONE/SeS/PP/MB

2.940.1580

The 940 Professional IC Vario ONE/SeS/PP/MB is the intelligent IC instrument with sequential suppression and a peristaltic pump for suppressor regeneration. The instrument can be used with any separation and detection methods.

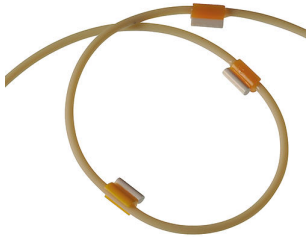
Typical areas of application:

- Anion or cation determinations with sequential suppression and conductivity detection
- Trace analysis for anions or cations
- Online monitoring for anions or cations
- Optimized for microbore (2 mm) applications, ideally suitable for coupling techniques (IC-MS or IC-ICP/MS)

Supported with MagIC Net 4.1 and higher

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 2.940.1580

Qt.	Order no.	Description
1 PCS	6.1826.420	PharMed® pump tubing (orange/yellow), 3-stopper
		For MSM regeneration with peristaltic pump.
		
1 PCS	6.2744.034	Coupling olive/UNF 10/32, 2x
		Connection between pressure screw and pump tubing. 2 pieces. For IC instruments with peristaltic pump.
		
1 PCS	6.2744.070	Pressure screw short
		Short version. With UNF 10/32 connection. 5 pieces. For the connection of PEEK capillaries
		
1 PCS	6.2744.180	Pump tubing connector with security lock and filter
		For the connection of a pump tubing and a capillary with built-in filter
		

1 PCS

6.5000.000

Accessory kit: Vario/Flex Basic

Basic set of accessories for a Professional IC Vario or Compact IC Flex.



1 PCS

6.5000.010

Accessory kit: Vario/Flex ONE

Set of accessories for the ONE Module (IC pump with injector) for Professional IC Vario and Compact IC Flex instruments.



1 PCS

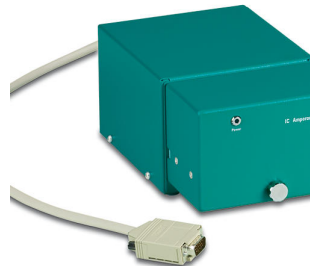
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Accessory kit: Vario/Flex SeS

Set of accessories for sequential suppression (SeS) for Professional IC Vario and Compact IC Flex instruments. Without Suppressor Rotor.



Optional accessories

Order no.	Description	
2.850.9110	IC Amperometric Detector	Compact and intelligent amperometric detector for intelligent IC instruments. Outstanding selectivity due to the four measuring modes: DC, PAD, flexIPAD and CV, as well as the excellent signal/noise ratio and the very fast stabilization of the measuring signal guarantee the highest in measurement precision. 
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). 
2.858.0010	858 Professional Sample Processor	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. 
2.858.0020	858 Professional Sample Processor – Pump	The 858 Professional Sample Processor – Pump processes samples from 500 µL to 500 mL. The sample transfer takes place either with the installed bidirectional two-channel peristaltic pump or with an 800 Dosino. 

The 863 Compact IC Autosampler is the ideal help for routine analysis. It enables automation of the full range of Metrohm IC instruments.



The 889 IC Sample Center is a robust Autosampler for high sample throughput, optimized for the challenges of the modern analytic laboratory. It works in accordance with the x-y-z principle and a syringe control with high resolution for precise sample injection. A double needle system enables the penetration of vessel caps and septa. A PEEK injection valve completes the automation system of the 889 IC Sample Center. It is the appropriate automation solution when you have only a very small amount of sample.



The 889 IC Sample Center – cool is the appropriate automation solution when you have only a very small amount of sample. In comparison with the 889 IC Sample Center, it possesses in addition a cooling function and is thus the ideal sample changer for biochemically relevant or thermally unstable samples.



The 889 IC Sample Center Basic – is a robust Autosampler for high sample throughput, optimized for the challenges of the modern analytic laboratory. It uses the x-y-z principle. A double needle system enables the penetration of vessel caps and septa.

The sample transfer takes place either with a peristaltic pump in the IC system or with an 800 Dosino, e.g. when applying the intelligent Partial Loop Injection Technique.

Supported with MagIC Net 4.1 and higher.



2.889.0040

889 IC Sample Center Basic - cool

The 889 IC Sample Center Basic – cool is the appropriate automation solution when you have only a very small amount of sample. In comparison with the 889 IC Sample Center Basic, it possesses in addition a cooling function and is thus the ideal sample changer for biochemically relevant or thermally unstable samples.

The sample transfer takes place either with a peristaltic pump in the IC system or with an 800 Dosino, e.g. when applying the intelligent Partial Loop Injection Technique.

Supported with MagIC Net 4.1 and higher.



2.919.0020

919 IC Autosampler plus

The 919 IC Autosampler plus fulfills the requirements of laboratories with medium sample numbers. It enables automation of the full range of Metrohm IC instruments.



2.941.0010

941 Eluent Production Module

The 941 Eluent Production Module enables the automatic production of an eluent. It enables continuous working without manual intervention and guarantees stable retention times. It can be combined with all Metrohm IC instruments and is monitored by MagIC Net.



2.943.0110

943 Professional Reactor Vario

The 943 Professional Reactor Vario is a heatable reactor, especially developed for pre- and post-column derivatization. It captivates by its robustness, the fast heating rate and the possibility of carrying out reactions at up to 150 °C.



The 943 Professional Thermostat Vario is a stand-alone column oven for up to two columns with a maximum length of 150 mm. It captivates by its fast heating rate and the possibility of operating two separation columns together at up to 80°C.



Intelligent stand-alone detector equipped with the IC Amperometric Detector. Outstanding selectivity due to the four measuring modes: DC, PAD, flexIPAD, CV. The excellent signal/noise ratio and the very fast start-up guarantee the highest in measurement precision. For use with intelligent IC instruments or as independent detector.



As an intelligent, single-wavelength detector, the 947 Professional UV/VIS Detector Vario SW permits a secure and reliable quantification of substances active in the ultraviolet or visible range. One wavelength can be selected.



As an intelligent, multi-wavelength detector, the 947 Professional UV/VIS Detector Vario MW permits a secure and reliable quantification of substances active in the ultraviolet or visible range. Up to eight wavelengths can be freely selected. A diode array is used for detection.



6.2061.130

Safety bottle holder for Professional IC instruments

Additional bottle holder for Professional IC instruments.



6.2755.000

Tubing cartridge

For the peristaltic pumps of IC instruments. Contact pressure adjustable.



6.2832.000

MSM Rotor A

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



6.2842.000

MSM-HC Rotor A

Suppressor rotor for all IC instruments with MSM-HC (Metrohm Suppressor Module with high capacity)



6.2842.200

MSM-HC Rotor C

Suppressor rotor for all IC instruments with MSM-HC drive (Metrohm Suppressor Module with high capacity) for cation suppression.



6.2844.000

MSM-LC Rotor A

Suppressor rotor for use with 2 mm columns.



6.2842.020

Adapter sleeve, MSM

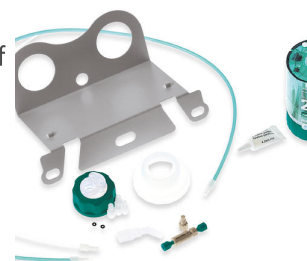
Not only the MSM Rotor A but also the MSM-LC Rotor A can be installed in the rotor housing with the aid of the adapter sleeve.



6.5330.190

IC equipment: Dosino regeneration

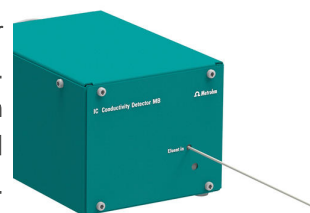
Accessory set for the assembly of a Dosino for automatic regeneration of the Metrohm Suppressor Module (MSM).



The 858 Professional Sample Processor – Pump – Injector processes samples from 500 μL to 500 mL. The sample transfer takes place either with the installed bidirectional two-channel peristaltic pump or by means of an 800 Dosino. In addition, a six-way injection valve is available for the sample preparation.



Compact and intelligent high performance conductivity detector for intelligent IC instruments. Optimized for microbore columns. 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.



Typical areas of application:

- Anion or cation determinations with chemical suppression, sequential suppression or without suppression and conductivity detection
- Optimized for microbore (2 mm) applications, ideally suitable for coupling techniques (IC-MS or IC-ICP/MS)

Specification at a glance:

- 0–15000 $\mu\text{S}/\text{cm}$ without range switching
- Cell volume: 0.3 μL
- Ring-shaped electrodes made of stainless steel X2CrNiMo17-12-2 (316 L), compatible with MSA
- Maximum operating pressure: 10.0 MPa (100 bar)
- Cell temperature: 20–50 $^{\circ}\text{C}$ in increments of 5 $^{\circ}\text{C}$
- Temperature stability: 0.001 $^{\circ}\text{C}$
- Baseline noise: 0.2 nS/cm typical for sequential suppression
- Capillaries: ID 0.18 mm

Supported with MagIC Net 4.1 and higher

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

2.948.0010**948 Continuous IC Module, CEP**

Automated hydroxide eluent production takes place with the 948 Continuous IC Module. Isocratic eluents can be produced and gradients can be run.

The 948 Continuous IC Module, CEP is comprised of the following parts:

- 948 Continuous IC Module
- Eluent Producer Cartridge (EPC, 6.02850.200)
- Continuous anion trap (CT, 6.02850.100)
- High-pressure degasser (H-DEG, 6.02850.000)



Example methods according to 948 Continuous IC Module manual.

6.2842.100

MSM-HC Rotor A, Hydroxide

Suppressor rotor with high capacity for hydroxide eluents for all IC instruments with MSM-HC (Metrohm Suppressor Module with high capacity).

