





Accessories for 2.884.1210

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 2.884.1210

Qty.	Order no.	Description	
2 pcs	1.800.0040	800 Dosino (cable length 0.65 m)	
		Drive with write/read hardware for intelligent dosing units. With permanently attached cable (length 0.65 m).	
1 pcs	1.884.0010	884 Professional VA	
		884 Professional VA is the universal entry-level instrument in the Professional VA/CVS instrument series. In conjunction with the compatible measuring head and compatible electrode set, you can perform trace analysis determinations, voltammetry with the Multi-Mode Electrode pro, or determinations of organic additives in electroplating baths, with "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and chronopotentiometry (CP). The proven Metrohm electrode methods combined with a completely new design of potentiostat/galvanostat and the extremely high-performance viva software open up new perspectives. The potentiostat with a certified calibrator readjusts itself automatically before each measurement, thus guaranteeing maximum precision. The replaceable measuring head enables rapid changes between various applications with different electrodes.	
		The viva software is required for control, data acquisition, and evaluation.	
		The 884 Professional VA is supplied with reduced accessories, without measuring head and electrodes. Electrode set and viva license are to be ordered separately.	
1 pcs	6.1256.010	RDE measuring head for Professional VA/CVS instruments	
		Measuring head for operation with rotating disk electrodes.	
4 pcs	6.1446.040	Threaded stopper / M6	

1 pcs **6.1546.030** **Extractor rod**
For PTFE piston of dosing unit



1 pcs **6.1602.190** **Eluent Bottle Head, 1 x SGJ 14, 4 x M6**
Eluent bottle head to connect up to 4 tubings with M6 connectors. For eluent bottle of the Eluent synthesizer.



1 pcs **6.1608.050** **Drying bottle / 100 mL / GL 45**








2 pcs **6.1608.070** **Eluent bottle / 2 L / GL 45**



1 pcs **6.1618.060** **Thread adapter GL 45 to GL 45**
Thread adapter GL45 to GL45; e.g. for reagent bottles with extended flange



1 pcs	6.1801.100	PVC tubing / 4 mm / 7 mm / 5 m	
1 pcs	6.1805.120	FEP tubing / M6 / 100 cm With light and kink protection	
2 pcs	6.1805.530	FEP tubing / M6 / 2 m With light and kink protection	
4 pcs	6.1808.000	Connection bushing M6	
1 pcs	6.1815.010	Spiral band 0.5 m For holding together different cables or tubing.	

2 pcs **6.1819.010** **PTFE tube**
 As gas inlet in washing bottle of VA Stand



1 pcs **6.1824.000** **Four-way micro dosing tip**
 With 4 x M6 thread. For VA measuring stands.



1 pcs **6.1829.070** **Tubing set for Professional VA/CVS instruments**
 Tubing set for the measuring head of Professional VA/CVS instruments. Comprised of 4 FEP tubings with M6 connector, tapering tip and protected against kink (2 x 82 mm long und 2 x 110 mm long).



1 pcs **6.2055.110** **Bottle holder or Dosino holder for two bottles/Dosinos**
 Holder for two 250 mL bottles or two Dosinos



1 pcs **6.2151.000** **Cable USB A – mini-DIN 8-pin**
 Controller cable








1 pcs **6.2621.080** **Capillary cutter**
 For plastic capillaries. Used with IC instruments



1 pcs	6.2703.000	Stand ring for titration vessels	
1 pcs	6.2711.090	Drip pan for Professional VA/CVS instruments	
1 pcs	6.2739.000	Wrench For tightening connectors	
1 pcs	6.2813.050	Dummy cell for Professional VA/CVS instruments	
1 pcs	6.3032.120	Dosing Unit 2 mL Dosing unit with integrated data chip with 2 mL glass cylinder and light protection, mountable on reagent bottle with ISO/DIN GL45 glass thread. FEP tubing connection, anti-diffusion buret tip.	
1 pcs	6.3032.250	Dosing Unit 50 mL Dosing unit with integrated data chip with 50 mL glass cylinder and light protection, mountable on reagent bottle with ISO/DIN GL45 thread. FEP tubing connection, anti-diffusion buret tip.	

Optional accessories

Order no.	Description	
2.800.0020	<p>800 Dosino</p> <p>Drive with write/read hardware for intelligent dosing units. With permanently attached cable (length 0.65 m).</p>	
2.843.0240	<p>843 Membrane Pump Station for Professional VA/CVS systems</p> <p>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.</p> <p>The versions for VA and CVS are equipped with the complete accessories for the automatic rinsing and emptying of the measuring vessel.</p>	
2.858.0110	<p>858 Professional Sample Processor for VA and CVS</p> <p>The 858 Professional Sample Processor for VA and CVS, in conjunction with Professional VA/CVS instruments and viva, enables the fully automatic processing of large sample series of organic additives in electroplating baths, e.g. "brighteners" and "suppressors" using "Cyclic Voltammetric Stripping" (CVS). The system is controlled directly by the viva software and permits automatic changes of method between different types of determinations. The sample rack supplied holds 56 samples of a maximum of 11 mL and 28 samples of a maximum of 50 mL for brightener determination.</p> <p>The 858 Professional Sample Processor for VA and CVS is supplied with built-in robotic arm, together with accessories, sample rack and connection cable for setting up a complete workplace, although it does not come with rinsing equipment.</p>	
2.919.0120	<p>919 IC Autosampler plus for CVS</p> <p>The 919 IC Autosampler plus for CVS, in conjunction with Professional VA/CVS instruments and viva, is suitable for small sample series of fully automatic determinations of organic additives in electroplating bath, e.g. "brighteners" and "suppressors" using "Cyclic Voltammetric Stripping" (CVS). The system is controlled directly by the viva software and permits automatic changes of method between different types of determinations. The sample rack supplied holds 14 samples with a maximum size of 50 mL.</p> <p>The 919 IC Autosampler plus for CVS is supplied with accessories, sample rack, and connection cable so you can set up a complete workplace, although it does not come with rinsing equipment.</p>	
6.1110.120	<p>Pt1000 temperature sensor for CVS (installation length 9 cm)</p> <p>Pt1000 temperature sensor (class B) for Professional CVS Instruments.</p>	

6.1256.020 MME measuring head for Professional VA instruments

Measuring head for operation with the Multi-Mode electrode pro or the scTRACE Gold.



6.1256.030 SPE measuring head for Professional VA instruments

Measuring head for operation with *screen-printed electrodes* (SPE) or the scTRACE Gold.



6.1454.130 Form seal made of FPM for 61414xxx

for KF and VA instruments



6.2104.140 Electrode cable / 1 m / 2 x 2 mm

For connecting temperature sensors with Metrohm plug-in head G with 780, 781, 826, 827 pH/Ion meters and all Titrandos



6.5339.000 CVS electrode equipment with 1 mm platinum electrode for Professional VA/ CVS instruments

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 1 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.



6.5339.010 CVS electrode equipment with 2 mm platinum electrode for Professional VA/ CVS instruments

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 2 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.



6.5339.020 CVS electrode equipment with 3 mm platinum electrode for Professional VA/ CVS instruments

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 3 mm), reference electrode, platinum auxiliary electrode, measuring vessels and electrolyte solutions.



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.



6.5339.040 VA electrode equipment with rotating disk electrode (RDE) made of glassy carbon for Professional VA instruments

Complete electrode set for voltammetric determinations, e.g. using mercury film method. Includes drive for rotating disk electrode, glassy carbon electrode tip, reference electrode, glassy carbon auxiliary electrode, measuring vessel, and electrolyte solution.



6.5339.050 VA electrode equipment with scTRACE Gold for Professional VA instruments

Complete electrode set for the determination of arsenic or mercury. Includes holders for scTRACE Gold, scTRACE Gold, stirrer and measuring vessel.



6.5339.060 CVS electrode equipment with 2 mm platinum electrode for Professional VA/CVS instruments for intensive use

Complete electrode set for the determination of organic additives in electroplating baths with CVS (Cyclic Voltammetric Stripping). Contains rotating platinum working electrode (electrode diameter: 2 mm), driving axle with mercury contact, maintenance-free gel reference electrode, platinum auxiliary electrode, measuring vessels and KCl electrolyte solution.



6.5339.070 VA accessory equipment with SPE electrode shaft for professional VA instruments

Accessory equipment for use with *screen-printed electrodes* (SPE). Contains electrode shaft for screen-printed electrodes, stirrer, and measuring vessel. Without electrodes.



6.5339.500 Equipment with 2 dosing units for VA and CVS measurements

Accessory set for two auxiliary solutions for expanding VA or CVS systems. Contains two 2 mL dosing units, two 100 mL clear glass bottles, bottle holder for two bottles and connector material. Without Dosinos.



6.6065.212 viva 2.1 Full CD: 1 license

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

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

Includes the measuring modes "Differential Pulse" (DP), "Square Wave" (SQW), "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and Chronopotentiometry (CP). 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.

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 PC.



6.6065.213 viva 2.1 Multi CD: 3 licenses

Client/server-compatible computer program for control and data management of Professional VA/CVS instruments. The software permits checks, data acquisition, evaluation, and monitoring, as well as report generation.



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

Includes the measuring modes "Differential Pulse" (DP), "Square Wave" (SQW), "Cyclic Voltammetric Stripping" (CVS), "Cyclic Pulse Voltammetric Stripping" (CPVS), and Chronopotentiometry (CP). 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.

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

Client/server version with 3 licenses for 3 PCs with a maximum of 4 Professional VA/CVS instruments per PC.
