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

2.815.0010

Robotic USB Sample Processor XL with one workstation and one built-in membrane pump 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 pump, an additional one (membrane or peristaltic) and 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.

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 2.815.0010

Qt.	Order no.	Description

| 1 PCS | 1.815.0010 | 815 Robotic USB Sample Processor XL (1T/1P) |

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| 2 PCS | 6.1236.020 | Sleeve with SGJ 14/12 mm |

Sleeve with SGJ 14/12 mm and O-ring.

| 5 PCS | 6.1446.000 | SGJ stopper / B-14/(15) |

| 3 PCS | 6.1446.010 | Stopper |

Used with Sample Changers

Metrohm

1 PCS	6.1621.000	Container 10 L

As rinsing or waste container in automated systems.

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3 PCS	6.1805.060	FEP tubing / M6 / 60 cm

With light and kink protection

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1 PCS	6.1805.110	FEP tubing / M6 / 80 cm

With light and kink protection

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1 PCS	6.1812.000	PTFE tubing 4 mm / 6 mm / 4 m

Metrohm

| 1 PCS | 6.1828.000 | PVDF connection nipple |

For 6.1621.000 canister.

| 1 PCS | 6.2053.000 | Cable clip |

Cable clip for fastening cables and tubes

| 1 PCS | 6.2151.000 | Cable USB A – mini-DIN 8-pin |

Controller cable

| 1 PCS | 6.2621.030 | Hexagon key 4 mm |

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1 PCS	6.2621.070	5 mm hex key for IC Sample Processors

1 PCS	6.2621.140	Hexagon key 2.5 mm

3 PCS	6.2709.070	Guiding sleeve

For fixation of buret and dosing tips in titration heads and electrode holders

3 PCS	6.2740.020	Spray nozzle

For the fine-spraying of the rinsing solution.

1 PCS   6.2751.100   Safety shield

Safety shield for Sample Processors with 786 Swing Head
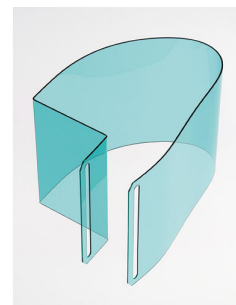
Optional accessories

Order no.	Description
2.772.0120	772 Pump Unit – aspirate Peristaltic pump for direct connection to Sample Processors. The "Aspiration" version contains extensive accessories for the aspiration of titered-out solutions.
2.786.0010	786 Swing Head with transfer head left Additional equipment for Robotic Sample Processors XL for transferring / pipetting from small sample vessels into larger titration vessels on the rack or into an external titration cell; this can be located to the left of the work station.
2.786.0020	786 Swing Head with transfer head right Additional equipment for Robotic Sample Processors XL for transferring / pipetting from small sample vessels into larger titration vessels on the rack or into an external titration cell; this can be located to the right of the work station.
2.786.0030	786 Swing Head with titration swing arm, left- or right-swinging Additional equipment for Robotic Sample Processors XL for direct titration in sample vessels of 75 mL and more.

2.786.0040	786 Swing Head

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

2.801.0010	801 Stirrer

Magnetic stirrer without stand for supplementing the Titrino plus, Dosimat plus, Titrandos, Sample Processors, 805 Dosimats and 780/781 pH Meters. With permanently attached cable for MSB (Metrohm Serial Bus).

2.802.0020	802 Stirrer for sample changer

Rod stirrer for sample changer and Sample Processor.

With 104 mm 6.1909.020 stirring propeller and permanently installed cable.

2.802.0040	802 Stirrer for 804 Ti Stand

Rod stirrer including 6.1909.010 stirring propeller.

2.804.0040   804 Ti Stand with stand

Titration stand and controller for 802 Rod Stirrer. The 804 Ti Stand together with the optional 802 Rod Stirrer provides an alternative to the magnetic stirrer. Ti Stand with base plate, support rod and electrode holder.

2.823.0020   823 Membrane Pump Unit «aspirate»

Membrane pump for direct connection to Sample Processors. The «Aspiration» version contains numerous accessories for aspirating off solutions.

2.849.0010   849 Level Control

Additional equipment for Sample Processors for monitoring the filling level of rinsing or waste canisters via Remote. Prevents pumps from running dry and/or canisters from overflowing and is suitable for use with aqueous solutions, solvents and suspensions.

6.06000.000   OMNIS Software storage device

License-based PC program for controlling complex OMNIS analysis systems.

- Sample-oriented operating procedures with numerous templates
- Graphical method editor with numerous templates
- Clearly organized and professional sample lists
- Management of instruments, work systems, sensors, solutions
- Dialog languages: German, English, Chinese

6.06003.010   OMNIS Stand-Alone license

Enables stand-alone operation of the OMNIS software on a Windows™ computer.

Features:

- The license already includes one OMNIS instrument license.
- Must be activated via the Metrohm licensing portal.
- Not transferable to another computer.

6.1458.010   Titration head, 6 x SGJ 14 and 3 x SGJ 9 openings.

With 6xSGJ 14 and 3x SGJ 9 openings.

6.1458.020   Titration head /4 x M10 connectors

With 4 M10 screw nipples, including stoppers.

6.1458.030   KF titration head /4 x M10 connectors

With 4 M10 screw nipples, including stoppers.

6.1458.040   Titration Head, 3 x SGJ 14

Titration head for 120 mL beakers. With 3 openings SGJ 14 and 4 openings 6.4 mm, 2 dosing tips included. Suitable for rinsing and aspiration equipment.

6.1458.070   Titration head / 2 x SGJ 14

Titration head for 75 mL beakers. With 2 openings SGJ 14, 2 openings 6.4 mm, and 3 pre-mounted dosing tips. Suitable for rinsing and aspiration equipment.

6.1462.030   Robotic arm with transfer head for 786 Swing Head, left swinging

Transfer robotic arm for liquid handling purposes

6.1462.040   Robotic arm with transfer head for 786 Swing Head, right swinging

Transfer robotic arm for liquid handling purposes

6.1462.050   Robotic arm with titration head for 786 Swing Head, left or right swinging

Titration head for Swing Head

6.1462.060   Robotic arm with holder for titration head, left swinging

Titration head holder to 786 Swing Head

6.1462.070   Robotic arm with holder for titration head, right swinging

Titration head holder to 786 Swing Head

6.1462.090   Robotic arm with Luer-Lock adapter for 786 Swing Head, right swinging

Transfer robotic arm for liquid handling

6.1462.150	Robotic arm with titration head and beaker sensor for 786 Swing Head, left or right-swinging
	Titration head with beaker sensor for 786 Swing Head, 2 x M10, 1 x SGJ 14.5, 2 x buret tip

6.1462.160	Robotic arm with holder for titration head and sensor for 786 Swing Head, left swinging
	Titration head holder with beaker sensor for 786 Swing Head

6.1462.170	Robotic arm with holder for titration head and sensor for 786 Swing Head, right swinging
	Titration head holder with beaker sensor for 786 Swing Head

6.1462.260	Robotic arm with holder for titration head, left swinging, external
	Titration head holder for 786 Swing Head with possibility of swinging to external positions

Metrohm

6.2001.070   Support stand for Sample Processors

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

6.2041.350   Sample rack, 48 x 75 mL (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 48 sample beakers. The following sample beakers can be used: 6.1432.210, 6.1459.400.

Plastic: Polyvinyl chloride (PVC)

6.2041.400   Sample rack, 126 x 11 mL and 2 x 250 mL (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" for 126 sample vessels and 2 sample beakers. The following sample vessels can be used: 6.02743.050, 6.2743.057, 6.1432.320, 6.1432.323, 6.1453.220, 6.1453.250.

Plastic: Polyvinyl chloride (PVC)

6.2041.410   Sample rack, 141 x 11 mL and 1 x 300 mL (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" for 141 sample vessels and 1 rinsing bottle. The following sample vessels can be used: 6.2743.050, 6.2743.057, 6.1608.080.

Plastic: Polyvinyl chloride (PVC)

6.2041.430   Sample rack, 127 x 11 mL and 2 x 300 mL (PVC)

Sample rack for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" suitable for 127 sample vessels and 2 rinsing bottles. The following sample vessels can be used: 6.2743.050, 6.2743.057, 6.1608.080.
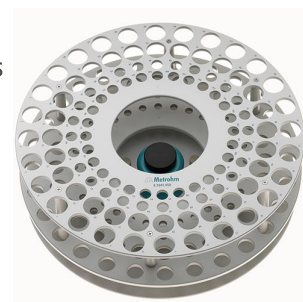
Plastic: Polyvinyl chloride (PVC)

6.2041.440   Sample rack 148 x 11 mL + 3 x 300 mL

Sample rack for 148 x 11 mL samples with 3 rinsing beakers.

6.2041.450   Sample rack 56 x 11 mL + 56 x 50 mL

Multi-row sample rack for 56 samples in 11 mL sample vessels (6.2743.050) and 56 samples in sample vessels of 50 mL (6.2747.010).

6.2041.710   Sample rack, 160 x 6 mL, (PVC)

Sample rack for 815 Robotic Sample Processor, 855 Robotic Titrosampler "Basic" suitable for 160 sample vessels. The following sample vessels can be used: 6.2419.000.

Plastic: Polyvinyl chloride (PVC)

6.2041.780   Sample rack 65 x 11 mL + 25 x 50 mL

Multi-row sample rack for 65 samples in 11 mL sample vessels (6.2743.050) and 25 samples in 50 mL sample vessels (6.02743.030)

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)

Metrohm

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)

6.2041.850   Sample rack, 59 x 120 mL, (PP)

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)

6.2041.900   Sample rack insert, 54 x 75 mL, for water bath, (Al)

Sample rack insert for 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic", suitable for 54 sample beakers. The following sample beakers can be used: 6.1432.210, 6.1459.400.

Material: Aluminum (Al)

Metrohm

6.2058.020   Head extension 30 mm for Sample Processors

Head extension 30 mm for 789, 815 Sample Processors.

6.2058.030   Head extension 10 mm for Sample Processors

Head extension for use with the waterbath rack.

6.2058.110   Tower extension for Sample Processors

Height extension 130 mm fpr Sample Processors.Tower extension for
COD applications.

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

Metrohm

6.2148.010   Remote Box MSB

Additional remote interface for the connection of devices that can be controlled via remote lines. With permanently attached cable.

6.2711.070   Drip pan for 789/815/855

Drip pan for 789, 815, 855 Robotic Sample Processors XL

6.2840.000   Water bath for Robotic Sample Processors and Robotic Titrosampler

Water bath rack for Robotic Sample Processors and Titrosampler.

6.2841.000   External Polytron rinsing station for Robotic Sample Processors

The external rinsing station can be fitted on the side next to the Robotic Sample Processor tower, making it possible for external cleaning of the Polytron to be carried out during additional actions on the sample rack.

Metrohm

6.2841.010 External rinsing station for robotic arm with 6.1458.040 titration head

The external rinsing station can be fitted on the side next to the Robotic Sample Processor tower, making it possible for external cleaning of the titration equipment to be carried out during additional actions on the sample rack.
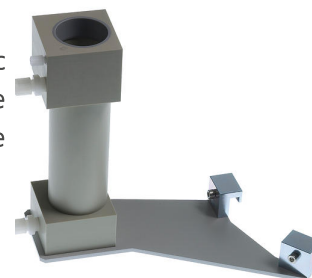
6.5619.000 Transfer equipment, 0.5 - 2 mL, for 789/815

Complete equipment for the transfer of solutions from 0.5 to 2.0 mL on the Robotic Sample Processor.