815 Robotic USB Sample Processor XL (2T/0P)

2.815.0130

Robotic USB Sample Processor XL for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. Up to four 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.

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 2.815.0130

Order Number	Description	Quantity
1.815.0130	**815 Robotic USB Sample Processor XL (2T/0P)** Robotic USB Sample Processor XL for the automatic processing of routine samples in series with large quantities and for complex sample preparation or parallel runs. Up to four 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.	1 PCS
6.1236.020	**Sleeve with SGJ 14/12 mm** Sleeve with SGJ 14/12 mm and O-ring.	4 PCS

6.1805.110

FEP tubing / M6 / 80 cm

2 PCS

With light and kink protection

6.2151.000

Cable USB A – mini-DIN 8-pin

1 PCS

Controller cable

6.2621.030

Hexagon key 4 mm

1 PCS

6.2621.070

5 mm hex key for IC Sample Processors

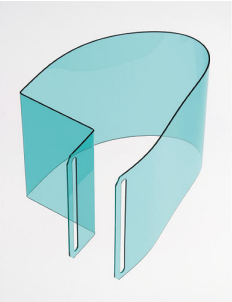
1 PCS

6.2621.140 **Hexagon key 2.5 mm** 1 PCS

6.2709.070 **Guiding sleeve** 6 PCS

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

6.2751.100 **Safety shield** 2 PCS



Safety shield for Sample Processors with 786 Swing Head

Optional accessories

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.

2.772.0130
772 Pump Unit – rinse

Peristaltic pump for direct connection to Sample Processors. The "Rinse" version contains extensive accessories for rinsing.

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.

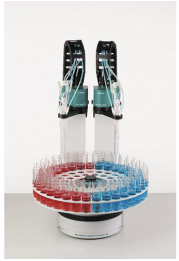
2.786.0020

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



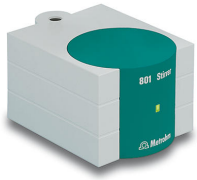
Additional equipment for Robotic Sample Processors XL for direct titration in sample vessels of 75 mL and more.

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.

2.823.0030
823 Membrane Pump Unit «rinse»

Membrane pump for direct connection to Sample Processors. The «Rinsing» version contains numerous rinsing accessories.

2.843.0050
843 Pump Station (membrane) - rinse /aspirate for Sample Processors

The 843 Pump Station (membrane) has two built-in membrane pumps. These can be controlled directly from the Sample Processor via pump commands. The Rinse / Aspirate version is provided with all the accessories needed for automatically emptying the titration beaker and rinsing the titration equipment. The accessories are intended for use with the 814 and 815 Sample Processors.

2.843.0150

843 Pump Station (peristaltic) - rinse/aspirate for Sample Processors

The 843 Pump Station (peristaltic) has two built-in peristaltic pumps. These can be controlled directly from the Sample Processors via pump commands. The rinse/aspirate version is provided with all the accessories needed for automatically emptying the titration beaker and rinsing the titration equipment. The accessories are intended for use with the 814 and 815 Sample Processors.

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.

6.1458.010

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

6.1462.080

Dis-Cover Robotic Arm

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

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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

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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 858 Professional Sample Processor, 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" for 126 sample vessels and 2 sample beakers. The following sample vessels and sample beakers can be used: 6.2743.050, 6.1432.320, 6.1432.323, 6.1453.220, 6.1453.250, 6.2743.047, 6.2743.040.
Plastic: Polyvinyl chloride (PVC)

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

Sample rack for 858 Professional Sample Processor, 815 Robotic USB Sample Processor XL, 855 Robotic Titrosampler "Basic" for 141 sample vessels and 1 sample beaker. The following sample vessels and rinsing bottles can be used: 6.2743.050, 6.1608.080, 6.1627.000, 6.2743.040.
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 and rinsing bottles can be used: 6.2743.050, 6.1608.080, 6.1627.000, 6.2743.040.
Plastic: Polyvinyl chloride (PVC)

6.2041.440

Sample rack, 148 x 11 mL and 3 x 300 mL (PVC)

Sample rack for 858 Professional Sample Processor, 815 Robotic USB Sample Processor XL, suitable for 148 sample vessels and 3 rinsing bottles. The following sample vessels and rinsing bottles can be used: 6.2743.050, 6.1608.080, 6.1627.000, 6.2743.040.
Plastic: Polyvinyl chloride (PVC)

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)

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)

6.2041.800
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)

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)

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

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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

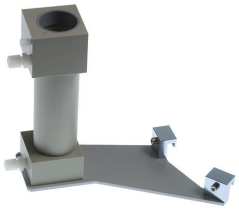
6.2840.000
Water bath for Robotic Sample Processors and Robotic Titrosampler

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.

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.

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.

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)

6.2041.770
Sample rack 211 x 11 mL

Multi-row sample rack for 211 samples in 11 mL sample vessels (6.2743.050)