

814 USB Sample Processor



- Precise and reproducible results
- Easy automation for medium-sized sample volumes
- Measurement and titration directly in the sample beaker
- Robust, safe, reliable
- Grows with your requirements

814 USB Sample Processor – your reliable partner for routine analysis

02

The 814 USB Sample Processor adds an important element to your application – automation. Why automate your application? Especially if you have a high sample throughput, it is essential to ensure that each sample is processed with the same accuracy. Only this guarantees consistent, reproducible and, above all, precise results.

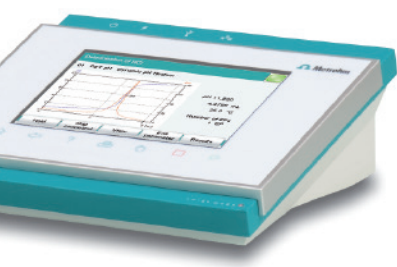
With the compact 814 USB Sample Processor you can automate your analysis with minimal effort. Just a few steps that save precious time while guaranteeing absolutely reliable and traceable results.





Highlights

- Superior reproducibility and accuracy
- Compact design with flexible components
- Rinsing option and sample rack can be chosen at will
- Stand-alone operation using touch panel
- Software control by way of PC Control, **tiamo**[™] or MagIC Net
- Full control – manual and automatic
- Possibility for connecting 3 dosing burets
- Rugged and safe



Our standard Sample Processor – as flexible as you want it

04

Depending on the particular sample, various preparation steps need to be carried out in order to obtain a valid result. Precise and reproducible working is a must. Be it a measurement or a titration, the accuracy and correctness of the procedure must be ensured at all times. Using the 814 USB Sample Processor all of these requirements are met.

Enormous flexibility

The 814 USB Sample Processor is available in different versions. Depending on the type of your sample, cleaning of the titration equipment can be done with built-in space-saving membrane pumps or with external, robust peristaltic pumps. The latter even enable transferring organic solvents or solvents with precipitates and can therefore be recommended for universal use.

Everything in its place

Stirrer, dosing tips, rinsing and aspirating tubes – fully automated measurement/titration requires a lot more than just an electrode and a buret for adding the titrant. In combination with the 814 USB Sample Processor, various titration heads can be used to firmly fix any required accessories.



Work more comfortably ...

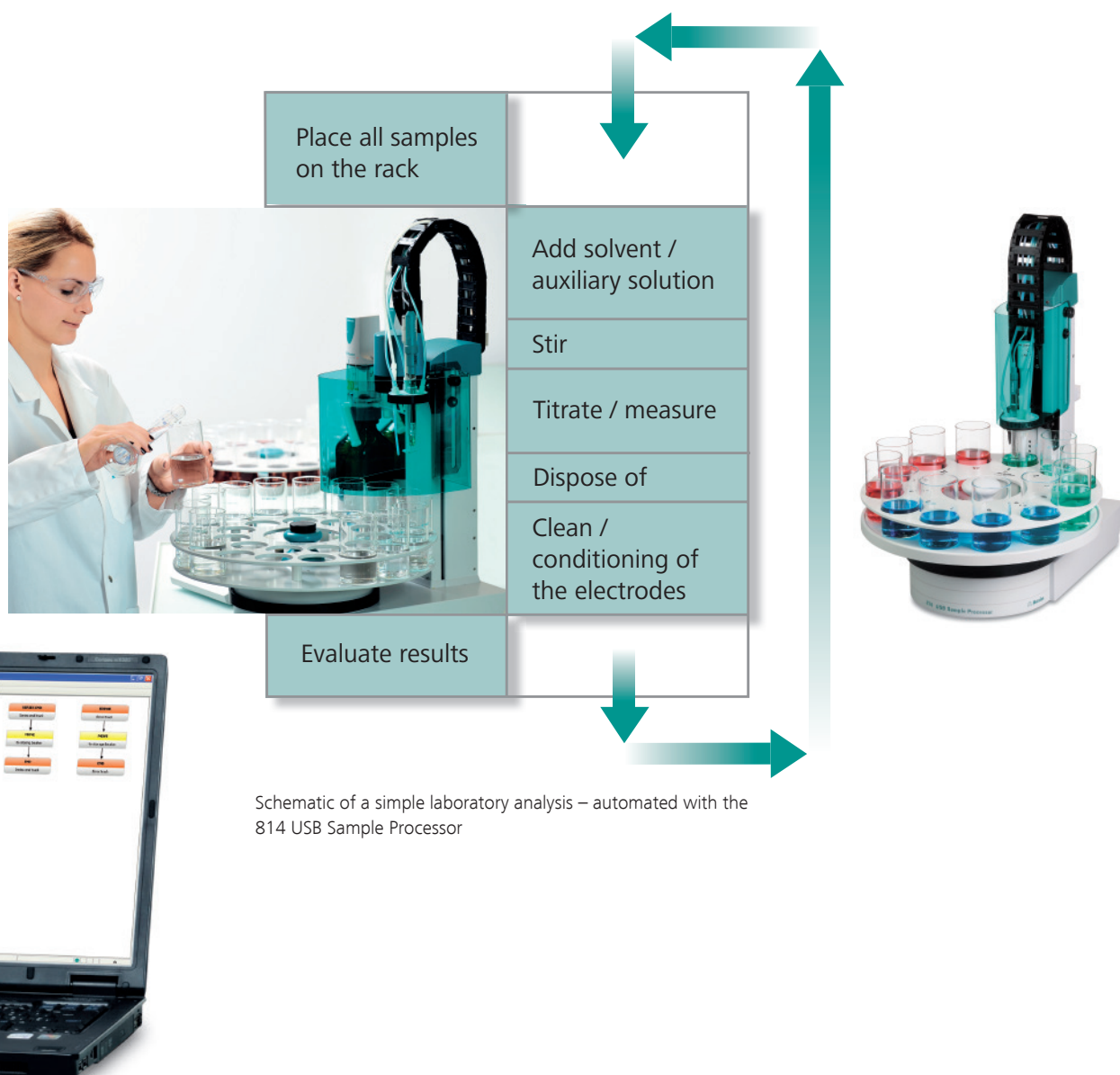
Your 814 USB Sample Processor is controlled with the greatest precision. Once the methods have been saved in the control software, the samples just need to be placed on the 814 USB Sample Processor and the sample data entered. You can operate your 814 USB Sample Processor by PC (using our PC Control, *tiamo*[™] or MagIC Net software) or by the easy-to-use Touch Control operating unit. Either way, your samples are prepared and analyzed fully automatically without any further intervention required.

... and save time

The diagram below shows how an automated system makes your work easier and, at the same time, delivers optimum results. While the sample changer handles the series of samples, you are already preparing the next samples or discussing the results. You save valuable time!

Standard or custom racks

The 814 USB Sample Processor can be operated with a number of different racks. Even with the standard racks it is possible to use a wide range of glass, plastic or disposable vessels (see following page). If your beaker size is not listed, we will provide a customized solution.



Sample racks and beakers

06

Order number	Description of the sample rack	6.1432.210 75 mL/ glass	6.1432.320 250 mL/ glass	6.1453.220 200 mL/ PP	6.1453.250 250 mL/ PP	6.1459.300 120 mL/ PP	6.1459.310 200 mL/ PP	6.1459.400 75 mL/ PP	6.2743.050 11 mL/ PP	6.2747.000 15 mL/ PP	6.2747.010 50 mL/ PP	6.1608.080 300 mL/ PP	Max. Ø in mm
6.2041.310	12 × 250 mL												
6.2041.320	16 × 150 mL												55
6.2041.340	24 × 75 mL												
6.2041.350*	48 × 75 mL												
6.2041.360	12 × 150 mL												55
6.2041.370	14 × 200 mL												
6.2041.380	14 × 8 oz												59
6.2041.390	16 × 120 mL												51
6.2041.400*	126 × 15 mL + 2 × 250 mL												
6.2041.410*	141 × 15 mL + 1 × 500 mL												71
6.2041.430*	127 × 11 mL + 2 × 300 mL												
6.2041.440*	148 × 11 mL + 3 × 300 mL												
6.2041.450*	56 × 11 mL + 56 × 50 mL												
6.2041.460	21 × 100 mL (CSB)												42
6.2041.470	22 × 120 mL												
6.2041.480*	159 × 2 mL + 3 × 300 mL												11.5

*The marked sample racks can only be used in combination with a 786 Swing Head.



Ordering information

2.814.0010 814 USB Sample Processor (1T/1P)

With 1 work station and 1 pump

2.814.0020 814 USB Sample Processor (1T/2P)

With 1 work station and 2 pumps

2.814.0030 814 USB Sample Processor (1T/0P)

With 1 work station without pump

2.814.0110 814 USB Sample Processor (2T/2P)

With 2 work stations and 2 pumps

2.814.0120 814 USB Sample Processor (2T/4P)

With 2 work stations and 4 pumps

2.814.0130 814 USB Sample Processor (2T/0P)

With 2 work stations without pumps

External peristaltic pumps

2.772.0120 772 Pump Unit «aspirate»

2.772.0130 772 Pump Unit «rinse»

2.843.0150 843 Pump Station (peristaltic) «rinse/aspirate»
With 2 pump heads

External membrane pumps

2.823.0020 823 Membrane Pump «aspirate»

2.823.0030 823 Membrane Pump «rinse»

2.843.0050 843 Pump Station (membrane) «rinse/aspirate»
With 2 pump heads

Stirrers

2.741.0010 741 Stirrer for stirring with magnetic stirrers

2.802.0020 802 Stirrer for stirring with propeller stirrers

Titration heads

6.1458.0010 Titration head with 6 × NS14 and 3 × NS 9

6.1458.0020 Titration head with 2 × M10

6.1458.0030 Titration head with 4 × M10 for KF applications

6.1458.0040 Titration head with 3 × NS14

6.1458.0070 Titration head with 2 × NS14 and 1 × M10

Swing Heads

2.786.0010 786 Swing Head with transfer head left

2.786.0020 786 Swing Head with transfer head right

2.786.0030 786 Swing Head with titration swing arm,
left- or right-swinging

2.786.0040 786 Swing Head



07



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