

# Metrohm Water Solutions II

Order before December 31, 2012 and get FREE!!!

- 1 x titration software *tiamo*™ full
- 2 x 800 Dosino dosing system<sup>1</sup>

All-in-one titration packages for professional water analysis



<sup>1</sup> With package IV

 **Metrohm**



## Metrohm ...

- is the global market leader in titration
- is the only company to offer a complete range of ion analysis equipment – titration, voltammetry and ion chromatography
- is a Swiss company and manufactures exclusively in Switzerland
- grants a 3-year instrument warranty and a 10-year warranty on chemical suppressors for ion chromatography
- provides you with unparalleled application expertise
- offers you more than 1300 applications free of charge
- supports you with expert service through local representatives and regional support centers
- is not listed on the stock exchange, but is owned by a foundation
- gives the interest of customers and employees priority over maximizing profit

# Metrohm Water Solutions – the best value for your money!

03

Comprehensive water analysis includes the determination of different sum parameters (e.g., conductivity, pH value, alkalinity, hardness) and several individual substances (e.g., ions). If those parameters are sequentially determined on separate instruments, you lose a lot of time and waste expensive bench space. The answer is a fully automated Metrohm system integrating all required functional components to carry out your analyses in a single run!

Moreover, such a system automatically performs the necessary sample preparation steps. This includes the metering of the samples as well as further liquid handling steps such as the accurate addition of titrant and auxiliary reagents. Up to 59 samples can be placed on the sample rack!

Your fully automated Metrohm water analysis system not only saves time, but also increases sample throughput as well as precision and repeatability of your results.

**Sounds good? Don't hesitate: From now through December 31, 2012, we are offering four all-in-one systems that are 100% geared to professional water analysis. And best of all, during this time we will throw in**

- Our *tiamo*<sup>TM</sup> titration software
- Two 800 Dosino dosing systems<sup>2</sup>

**absolutely FREE!**

Ordering options	pH, Conductivity, Alkalinity	Ca/Mg Hardness	Chloride	Free items
Package I	Yes	–	–	<i>tiamo</i> <sup>TM</sup> full
Package II	Yes	Yes	–	<i>tiamo</i> <sup>TM</sup> full 1 x 800 Dosino
Package III	Yes	–	Yes	<i>tiamo</i> <sup>TM</sup> full 1 x 800 Dosino
Package IV	Yes	Yes	Yes	<i>tiamo</i> <sup>TM</sup> full 2 x 800 Dosino



<sup>2</sup> With package IV

## Package I (basic package): conductivity, pH value and alkalinity

04

**Our basic package enables the fully automated analysis of basic parameters in all kinds of water: pH value, conductivity, and alkalinity/ carbonate hardness in compliance with DIN 38404-5, DIN EN 27888, EPA 120.1, EPA 150.1, EPA 310.1, USP <645>, and USP <791>.**

- 1 x 815 Robotic Sample Processor XL with 59 rack positions
- 1 x 905 Titrando
- 1 x 856 Conductivity Module
- 2 x 800 Dosino
- 1 x 802 Stirrer
- 1 x 804 Ti Stand
- 1 x Dosing Unit 20 mL
- 1 x Dosing Unit 50 mL
- 1 x **tiamo™** full
- All required sensors, cables and other accessories

**Free**  
• 1 x **tiamo™** full



**Ordering number: 2.815.9010**

# The most important applications

05

Parameter	Standard	Matrix	Method
pH value	DIN 38404-5	All kinds of water	pH measurement
	EPA 150.1	Drinking water, sea water, waste water	pH measurement
	USP <791>	Ultrapure water for pharmaceutical use	pH measurement
Conductivity measurement	DIN EN 27888	Drinking water	Conductivity measurement
	EPA 120.1	Waste water, sea water, drinking water	Conductivity measurement
	USP <645>	Ultrapure water for pharmaceutical use	Conductivity measurement
Alkalinity as CaCO <sub>3</sub>	EPA 310.1	Drinking water, sea water, waste water	Titration

## User benefits

- determine pH value, conductivity, and alkalinity in a single run
- automated sample preparation
- high sample throughput
- consistently high accuracy and reproducibility of results



## Package II: conductivity, pH value, alkalinity and total hardness

06

**Package II extends our basic package to include the determination of the Ca/Mg hardness in compliance with EPA 130.2, EN ISO 9963, and DIN 38406-3.**

- 1 x 815 Robotic Sample Processor XL with 59 rack positions
- 1 x 905 Titrande
- 1 x 856 Conductivity Module
- 4 x 800 Dosino
- 1 x 802 Stirrer
- 1 x 804 Ti Stand
- 3 x Dosing Unit 20 mL
- 1 x Dosing Unit 50 mL
- 1 x **tiamo™** full
- All required sensors (pH, Ca-ISE, and conductivity), cables and additional accessories

**Free**  
• 1 x **tiamo™** full  
• 1 x 800 Dosino



**Ordering number: 2815.9020**

# The most important applications

07

Parameter	Standard	Matrix	Method
pH value	DIN 38404-5	All kinds of water	pH measurement
	EPA 150.1	Drinking water, sea water, waste water	pH measurement
	USP <791>	Ultrapure water for pharmaceutical use	pH measurement
Conductivity measurement	DIN EN 27888	Drinking water	Conductivity measurement
	EPA 120.1	Waste water, sea water, drinking water	Conductivity measurement
	USP <645>	Ultrapure water for pharmaceutical use	Conductivity measurement
Alkalinity as CaCO <sub>3</sub>	EPA 310.1	Drinking water, sea water, waste water	Titration
Total hardness Ca, Mg	EPA 130.2 EN ISO 9963 DIN 38406-3	Waste water, sea water, drinking water	Titration

## User benefits

- automated determination of the 4 most important parameters in water
- automated sample preparation
- high sample throughput
- consistently high accuracy and reproducibility of results



## Package III: conductivity, pH value, alkalinity and chloride

08

**Determining the chloride content is an essential part of professional water analysis. Extending our basic package by an external titration cell enables the fully automated determination of the chloride content in compliance with DIN 38405-1.**

- 1 x 815 Robotic Sample Processor XL with 59 rack positions
- 1 x 905 Titrando
- 1 x 856 Conductivity Module
- 1 x Pump Station
- 5 x 800 Dosino
- 2 x 802 Stirrer
- 1 x 804 Ti Stand
- 1 x Dosing Unit 10 mL
- 2 x Dosing Unit 20 mL
- 2 x Dosing Unit 50 mL
- 1 x **tiamo™** full
- All required sensors (pH value, conductivity, Ag Titrode), cables, and additional accessories

**Free**  
• 1 x **tiamo™** full  
• 1 x 800 Dosino



**Ordering number: 2.815.9030**

## The most important applications

09

Parameter	Standard	Matrix	Method
pH value	DIN 38404-5	All kinds of water	pH measurement
	EPA 150.1	Drinking water, sea water, waste water	pH measurement
	USP <791>	Ultrapure water for pharmaceutical use	pH measurement
Conductivity measurement	DIN EN 27888	Drinking water	Conductivity measurement
	EPA 120.1	Waste water, sea water, drinking water	Conductivity measurement
	USP <645>	Ultrapure water for pharmaceutical use	Conductivity measurement
Alkalinity as CaCO <sub>3</sub>	EPA 310.1	Drinking water, sea water, waste water	Titration
Chloride	DIN 38405-1	Drinking water, waste water	Titration



### User benefits

- automatic determination of pH value, conductivity, alkalinity, and chloride
- automated sample preparation
- high sample throughput due to parallel working at two work stations
- consistently high accuracy and reproducibility of results



## Paket IV: conductivity, pH value, alkalinity, total hardness and chloride

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**Our most comprehensive offer: this package enables the fully automated analysis of all major parameters including pH value, conductivity, alkalinity (carbonate hardness), Ca/Mg (total hardness), and chloride in compliance with DIN 38404-5, DIN EN 27888, DIN 38406-3, DIN 38405-1, EPA 150.1, EPA 120.1, EPA 130.2, USP <791>, and USP <645>.**

- 1 x 815 Robotic Sample Processor XL with 59 rack positions
- 1 x 905 Titrande
- 1 x 856 Conductivity Module
- 1 x Pump Station
- 7 x 800 Dosino
- 2 x 802 Stirrer
- 1 x 804 Ti Stand
- 1 x Dosing Unit 10 mL
- 4 x Dosing Unit 20 mL
- 2 x Dosing Unit 50 mL
- 1 x **tiamo™** full
- All required sensors (pH value, conductivity, Ag Titrode, Ca-ISE), cables, and additional accessories

**Free**  
• 1 x **tiamo™** full  
• 2 x 800 Dosino



**Ordering number: 2.815.9040**

# The most important applications

Parameter	Standard	Matrix	Method
pH value	DIN 38404-5	All kinds of water	pH measurement
	EPA 150.1	Drinking water, sea water, waste water	pH measurement
	USP <791>	Ultrapure water for pharmaceutical use	pH measurement
Conductivity measurement	DIN EN 27888	Drinking water	Conductivity measurement
	EPA 120.1	Waste water, sea water, drinking water	Conductivity measurement
	USP <645>	Ultrapure water for pharmaceutical use	Conductivity measurement
Alkalinity as CaCO <sub>3</sub>	EPA 310.1	Drinking water, sea water, waste water	Titration
Total hardness Ca, Mg	EPA 130.2 EN ISO 9963 DIN 38406-3	Waste water, sea water, drinking water	Titration
Chloride	DIN 38405-1	Drinking water, waste water	Titration



### User benefits

- automatic determination of pH value, conductivity, total hardness, alkalinity, and chloride
- automated sample preparation
- high sample throughput due to parallel working at two work stations
- consistently high accuracy and reproducibility of results



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