

883 Basic IC plus



The smallest Metrohm ion chromatograph

883 Basic IC plus – small but powerful

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The 883 Basic IC plus completes the family of intelligent Metrohm ion chromatographs comprising the 850 Professional IC, 881 Compact IC pro and 882 Compact IC plus. Although it is the smallest family member, it satisfies high demands and offers an excellent price-performance ratio.

The 883 Basic IC plus allows anions, cations and polar substances to be determined in different matrices. The concentrations may be up to five orders of magnitude apart. The analysis is always reliable and precise.

The 883 Basic IC plus is designed for training in universities and schools. For this reason it is supplied with a practical textbook, which provides an introduction to the theoretical and practical aspects of ion chromatography. The 883 Basic IC plus is, however, also excellent for routine applications in water analysis, the food sector or the chemical industry. Wherever high performance at low cost is called for, the 883 Basic IC plus proves to be the ideal solution.



None has a smaller footprint: the 883 Basic IC plus is a small but powerful tool for training and routine analysis.



Highlights

- Intelligent ion chromatography
- Analysis of anions, cations and polar substances over five concentration decades
- Ideal for training and routine analysis
- Takes up very little space, very compact design
- Analyses can be automated
- Practice-oriented textbook
- Very easy operation
- Excellent price-performance ratio
- Includes MagIC Net™ Basic Software
- Monitoring and control functions for system components and results



Intelligent ion chromatography even for the smallest Metrohm IC

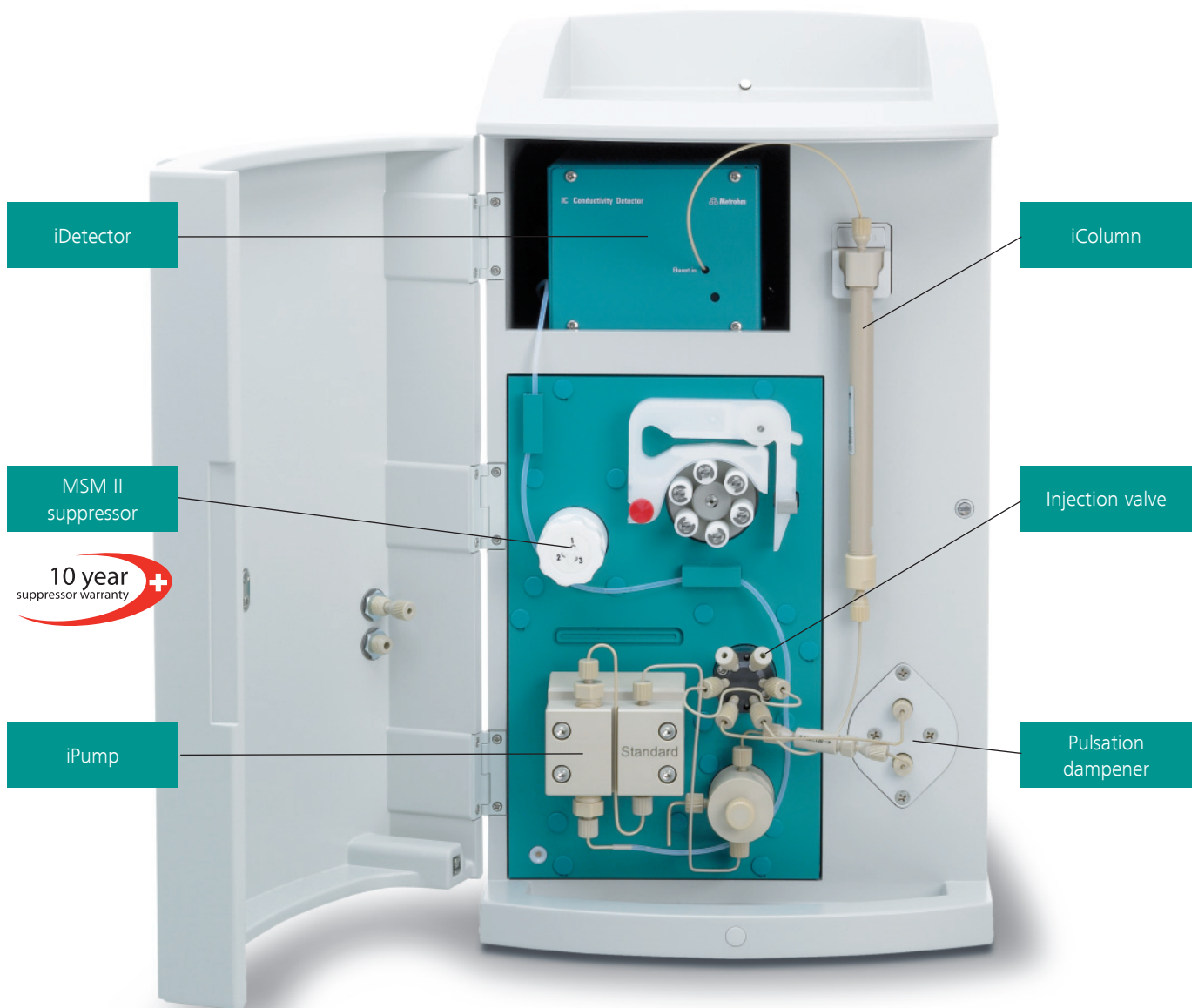
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The 883 Basic IC plus has all the intelligent functions of the modern Metrohm ion chromatographs. iColumn technology facilitates work with the separation column, the heart of the analyzer, and protects the column from damage during operation. Also integrated in the 883 Basic IC plus are the iPump, the intelligent high-pressure pump, and the iDetector, the intelligent conductivity detector. Both guarantee precise results and eliminate almost all operating errors.

The 883 Basic IC enables chemical suppression. For this, the ion chromatograph is equipped with the «MSM II»

Metrohm Suppressor Module. Because of its special ruggedness and its resistance to solvents and pressure, Metrohm gives a 10-year warranty on the chemical suppressor.

The high detection sensitivity of the 883 Basic IC plus allows analyses to be performed in the $\mu\text{g/L}$, mg/L and g/L ranges. This excellent sensitivity is based both on the minimal baseline noise of the chromatogram and on the performance of the intelligent conductivity detector. Both with and without suppression the 883 Basic IC plus will satisfy your requirements.

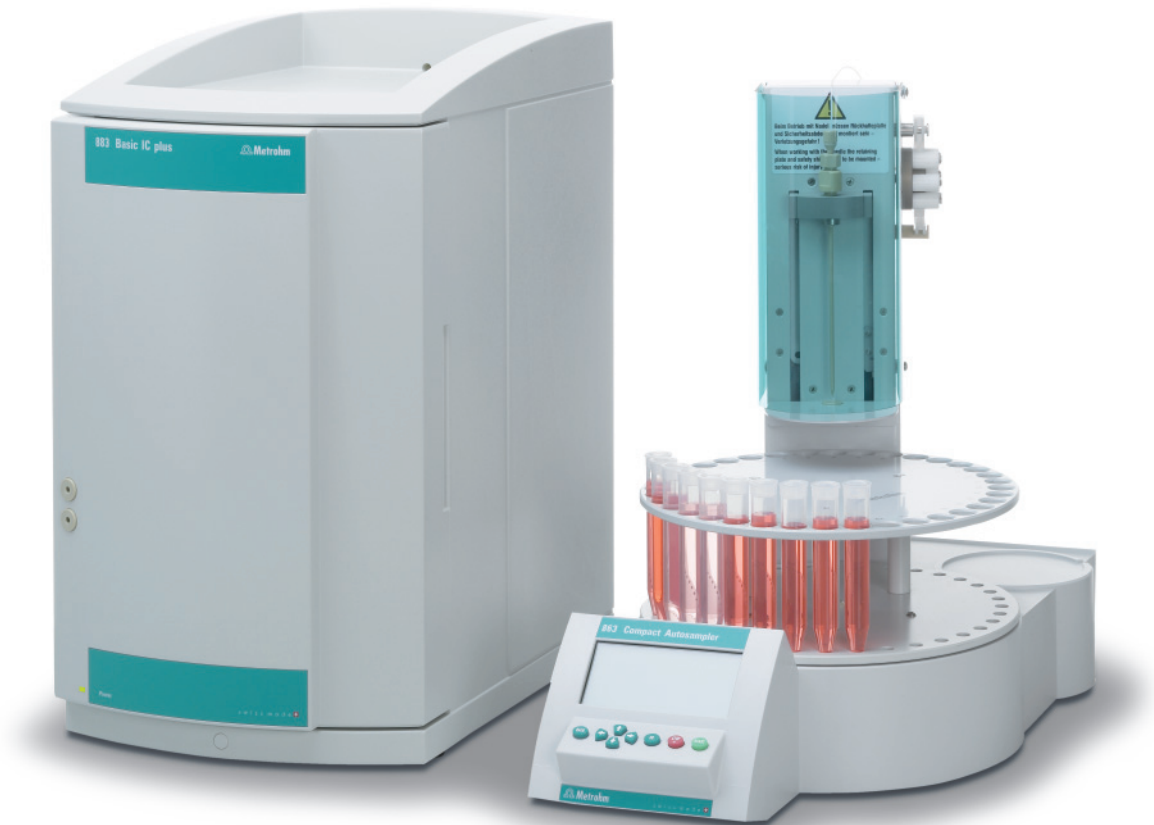


The 883 Basic IC plus Package – ideal for routine analysis

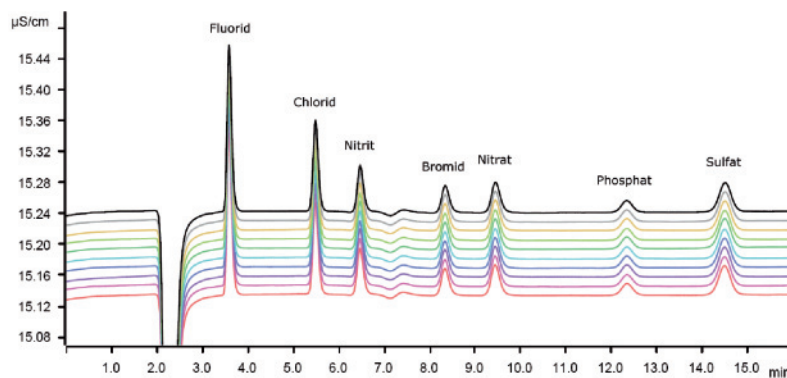
Automation is a must in modern routine analysis. For this reason the 883 Basic IC plus can also be automated. Metrohm offers the 883 Basic IC plus Package, which contains the 863 Compact IC Autosampler as well as the

883 Basic IC plus. This package is tailor-made for routine work and contains everything you need for the complete automation of your analyses.

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The 883 Basic IC plus Package automates your analyses – saving time and money.



The 10 chromatograms of an analysis of 100 µg/L of various anions demonstrate the high precision and outstanding reproducibility that is achieved with the 883 Basic IC plus.

MagIC Net™ Basic – the user-friendly IC software

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The MagIC Net™ ion chromatography software controls Metrohm's intelligent ion chromatographs and acquires all relevant information generated by the systems. The MagIC Net™ 2.0 Basic software has been designed to meet the requirements in education and routine analysis, making analyses particularly easy and reliable. It is characterized by clear symbols, a clear layout and intuitive operation. MagIC Net™ Basic is available in various

languages (including English, German, Chinese, Korean, French, Japanese and Russian) and is included with the 883 Basic IC plus and 883 Basic IC plus Package.

MagIC Net™ is the key to intelligent ion chromatography providing a wealth of monitoring and control functions. On your desktop you immediately find information about all the important parameters.

The analysis conditions are defined in the Method window. A click on the system component in the graph gives you access to all the relevant parameters.

Method	Ident	Sample type	Position	Injections	Status	Volume	Dilution	Sample amount
1 883_863_aw_2	Blank	Blank	1	1	READY 0 / 1	20	1	1
2 883_863_aw_2	Std 5	Standard 5	2	1	READY 0 / 1	20	1	1
3 883_863_aw_2	std 4	Standard 4	3	1	READY 0 / 1	20	1	1
4 883_863_aw_2	std 3	Standard 3	4	1	READY 0 / 1	20	1	1
5 883_863_aw_2	std 2	Standard 2	5	1	READY 0 / 1	20	1	1
6 883_863_aw_2	std 1	Standard 1	6	1	READY 0 / 1	20	1	1
7 883_863_aw_2	Sample 3	Sample	4	3	READY 0 / 3	20	1	1
8 883_863_aw_2	Sample 2	Sample	5	3	READY 0 / 3	20	1	1

The Workplace window is the platform for starting your determinations. You can carry out both individual determinations and whole series of determinations.

The powerful Database is the interface for data management, reprocessing and reporting.

Technical information

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	883 Basic IC plus	883 Basic IC plus Package
Intelligent ion chromatography	•	•
MagIC Net™ Basic software included in delivery	•	•
iPump with 0.001...20 mL/min flow rate	•	•
iDetector with 0...15'000 µS/ cm measuring range	•	•
iColumn technology	1 separation column	1 separation column
Peristaltic pump	•	•
Chemical suppressor with 10-year warranty	•	•
Pulsation dampener	•	•
PC connection	USB	2x USB
Can be automated	•	863 Compact IC Autosampler included in delivery
IQ/OQ – validation documentation	•	•
Housing dimensions	W/H/D 26/47/36 cm	W/H/D 26/47/36 cm + W/H/D 26/47/43 cm

Ordering information

2.883.0020 883 Basic IC plus: intelligent ion chromatograph with chemical suppression

2.883.1020 883 Basic IC plus Package: automated intelligent ion chromatograph with chemical suppression

Additional automation option:

2.863.0010 863 Compact IC Autosampler

6.2743.050 Sample tubes (11 mL); 2000 pieces

6.2743.040 PP sample tubes (2.5 mL); 2000 pieces

6.2743.070 PP stoppers with perforation for sealing the PP sample tubes; 2000 pieces



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