

899 Coulometer



Mobile coulometer for water determination anywhere you want

- Extremely small & compact
- Maximum flexibility due to independent power supply
- Automatic start of titration

899 Coulometer – the smallest and most compact Metrohm coulometer ever

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The 899 Coulometer couldn't be any smaller and more compact: With dimensions of 144 x 112 x 282 mm (W x H x D) the new Metrohm coulometer needs no more benchspace than a sheet of DIN A4 paper. That's the result of smart design by Metrohm engineers:

It may be small, however, the 899 Coulometer does not compromise on performance. Water contents can be determined with utmost precision down to trace levels.

- The 899 Coulometer is equipped with an integral magnetic stirrer. You no longer need to connect an external stirrer.
- Support rod? Not necessary either. An integral holder ensures that the titration cell stands securely on the top of the 899 Coulometer.



Small footprint and compact dimensions: the 899 Coulometer



Determine water content anywhere you want

You are in the field and need to know the water content of a sample. The laboratory is far and waiting for results is out of the questions. There is no socket around to plug in a power cord either.

No problem with the mobile 899 Coulometer. Simply rely on the instrument's independent power supply that comes with the optional Power Box. It contains a set of rechargeable batteries that last for hours of uninterrupted and reliable operation.

The 899 Coulometer gives you full independence as you can now perform coulometric determinations of the water content on the spot anywhere you want!



899 Coulometer with an optional Power Box for battery operation

Automatic start of titration

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It can easily happen that the sample is put into the titration vessel before one has started the titration.

In this case the conditioning continues until the reagent has again been titrated dry. Recalculations are impossible and the analysis has to be repeated. That means wasted sample, lost time and more stress.

With the 899 Coulometer that cannot happen. The automatic start ensures that the titration begins automatically as soon as sample is put into the titration vessel.



Thermal sample preparation: the oven method

It may be small but the mobile 899 Coulometer provides the same capabilities as the larger Metrohm coulometers. This includes thermal sample preparation, and even fully automated, if required.

Not every sample can be put into the titration vessel directly. There are various possible reasons for this:

- limited solubility
- secondary reactions with reagents
- slow release of water from the sample
- release of water only at higher temperatures
- dirt in the titration cell

The oven method is recommended for such samples. Here, the water contained in the sample is first removed by heating the sample and is then transported by a dry carrier gas into the titration cell, where the titration takes place.

The 899 Coulometer can be operated with either a manual oven (860 KF Thermoprep) or an automated oven system (885 Compact Oven Sample Changer).

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899 Coulometer and 860 KF Thermoprep



899 Coulometer and 885 Compact Oven Sample Changer

899 Coulometer at a glance

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Water contents	10 µg ... 200 mg
Number of predefined user methods	3
Number of possible stored user methods	100
Routine/Expert mode	Yes
Automation with 885 Compact Oven SC	Yes
Live curve during titration	Yes
Auto start after sample has been added	Yes
Stirrer. Titration stand	Integral magnetic stirrer, and also 1 x 801 magnetic stirrer or 1 x 803 Ti stand
Connection of sample changer	1 remote connection (connection of an 885 Compact Oven SC)
Connection of balances, printer, keyboard and other USB devices	1 USB port, RS-232/USB Box (option)
Temperature sensor	Pt1000
Method memory	Yes
Sample data silo	Yes
Battery operation	Yes (with optional Power Box)
Dialog languages	German, English, French, Spanish, Italian, Portuguese
Dimensions (W x H x D, without titration cell holder)	144 x 112 x 282 mm





Ordering Information

2.899.0010	899 Coulometer, Generator Electrode with Diaphragm
2.899.0110	899 Coulometer, Generator Electrode without Diaphragm
2.899.1010	899 Coulometer, Generator Electrode with Diaphragm, Printer
2.899.1110	899 Coulometer, Generator Electrode without Diaphragm, Printer
2.899.2110	899 Coulometer, Generator Electrode without Diaphragm, 860 KF Thermoprep
2.899.3110	899 Coulometer, Generator Electrode without Diaphragm, 885 Compact Oven Sample Changer

Optional Accessories

2.141.0100	USB Thermal printer Neo's
2.801.0010	801 Magnetic Stirrer
2.803.0010	KF Titration Stand with stirrer and integral membrane pump for changing reagent
2.860.0010	860 KF Thermoprep
2.885.0010	885 Compact Oven Sample Changer
6.2141.390	Remote Cable (connection to 885 Compact Oven SC)
6.2148.030	RS-232/USB Box
6.2164.500	Power Box
6.5406.000	Complete Titration Vessel with Generator Electrode with Diaphragm
6.5406.010	Complete Titration Vessel with Generator Electrode without Diaphragm

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