

# 756/831 Coulometer



Water determination down to trace levels

## The convincing solution for determining low water contents

The 756 and 831 Coulometers continue Metrohm's established line of Karl Fischer instruments for the determination of low-level water contents. Traces right down to the lower micro range can be determined with guaranteed precision and accuracy. The dialogue languages English, French, German, Spanish, Portuguese, Swedish and Italian are standard, as is the backlit screen with its graphics capabilities. The screen not only provides a clear presentation of the parameters, but also shows graphically the course of the KF determination (live curve,  $\mu\text{g}$  water versus time).

Despite their compact design the 756 and 831 Coulometers leave no wishes unfulfilled. The printer is already built in (756 Coulometer), and the two RS-232 interfaces allow communication with a balance, external printer and/or computer.

### Other features

- **Change of KF solution at the touch of a button:**

If a 700 Dosino is connected to the Coulometer, the spent solution can be replaced at the touch of a button.

- **Flexible but easy to operate:** The instruments have a standard and an expert mode. In the standard mode only those functions are accessible that are needed in routine work.

- **Cell with or without diaphragm:**

Both Coulometers are available with two different types of generator cells.

- **Method memory:** The integrated method memory has space for about 100 methods.

- **Thermal sample preparation with KF oven:**

The instruments can be operated together with a KF oven.

- **Stand-alone or software-controlled:** You decide whether the instrument is controlled via the incorporated keypad or by means of a computer and **tiamo**<sup>TM</sup> software.

|                                      |                                                                |
|--------------------------------------|----------------------------------------------------------------|
| Water contents                       | 10 $\mu\text{g}$ ... 200 mg                                    |
| Sample types                         | solid, liquid, gaseous                                         |
| Number of predefined methods         | 4                                                              |
| Number of methods that can be stored | up to 100                                                      |
| Automation                           | with 874 Oven Sample Processor                                 |
| Automatic conditioning               | yes                                                            |
| Live curve                           | yes                                                            |
| Recalculation of results             | yes                                                            |
| Dialogue languages                   | English, German, French, Spanish, Italian, Portuguese, Swedish |

## Thermal sample preparation – manual or automated

Thermal sample preparation is suitable for samples that cannot undergo direct Karl Fischer titration.

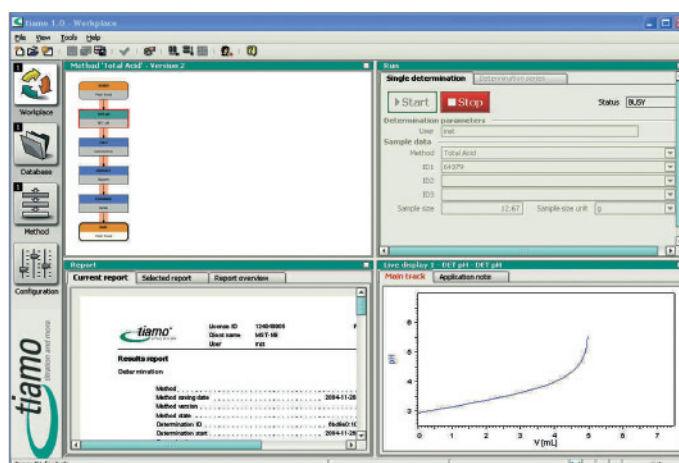
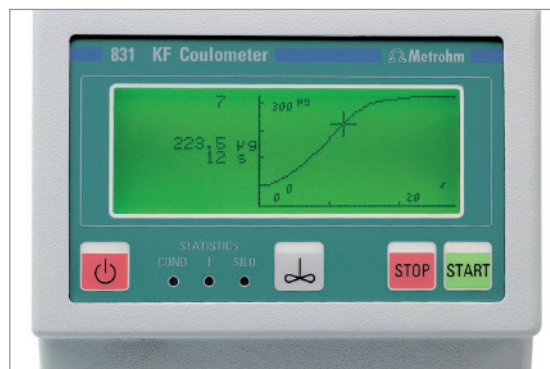
This sample preparation is easy and consists in weighing the sample into a vial and then sealing the vial so it is airtight. The sample is then heated in the oven; the water in the sample is evaporated and transported by a stream of dry carrier gas into the titration cell.

Using thermal sample preparation, there is no need for harmful solvents. Moreover, secondary reactions, matrix effects and contamination of the titration cell are completely avoided. Finally, the Karl Fischer reagent needs to be replaced less frequently.

## Stand-alone or software-controlled

You decide how your 756/831 Coulometer is controlled. If the instrument is operated as a stand-alone device, the incorporated keypad offers all the possibilities for controlling the 756/831 Coulometer. The LCD screen shows what is happening in the titration cell at all times.

Alternatively, the 756/831 Coulometer can be controlled with **tiamo**™ software. The Coulometer is connected to a computer by way of one of the RS-232 interfaces. In this way you have all the features and advantages of **tiamo**™ available to you.



## Ordering information

|            |                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------|
| 2.756.0010 | 756 Coulometer with printer, generator electrode with diaphragm, 728 magnetic stirrer, and comprehensive accessories |
| 2.756.0110 | 756 Coulometer with printer, generator electrode without diaphragm, and comprehensive accessories (without stirrer)  |
| 2.831.0010 | 831 Coulometer with generator electrode with diaphragm, 728 magnetic stirrer, and comprehensive accessories          |
| 2.831.0110 | 831 Coulometer with generator electrode without diaphragm, and comprehensive accessories (without stirrer)           |

### Options

|            |                                                                                         |
|------------|-----------------------------------------------------------------------------------------|
| 2.728.0010 | 728 Magnetic Stirrer                                                                    |
| 2.700.0020 | 700 Dosino                                                                              |
| 6.5617.000 | Equipment for automatic reagent exchange, including 50 mL Dosing Unit and bottle holder |
| 2.703.0010 | 703 titration stand with built-in magnetic stirrer and pump for manual reagent exchange |
| 2.860.0010 | 860 KF Thermoprep for manual thermal sample preparation                                 |
| 2.885.0010 | 885 Compact Oven Sample Changer for automated thermal sample preparation                |
| 2.874.0010 | 874 Oven Sample Processor for automated thermal sample preparation                      |
| 6.6056.231 | <b>tiamo™</b> 2.3 light                                                                 |
| 6.6056.232 | <b>tiamo™</b> 2.3 full                                                                  |
| 6.6056.233 | <b>tiamo™</b> 2.3 multi                                                                 |



[www.metrohm.com](http://www.metrohm.com)