

# SevenExcellence™ QuickGuide

## Get to Know Your Instrument



If you prefer to use the SevenExcellence™ instrument as a conventional electrochemistry meter, you can start a measurement directly with the well known "Read" button. Method measurement, on the other hand, gives you the possibility to program a very simple or very complex method with up to 6 measurements, instructions for the operator or user-defined calculations. Each method has clearly defined settings for higher reproducibility and can be started with One Click™ through customized shortcuts. This allows you to map your SOPs and even export and import your methods to other SevenExcellence™ instruments.

To help you with the proper instrument setup for either direct or method measurement, this QuickGuide will teach you to:

- define and select the right sensor (section A)
- set up a direct calibration or measurement (section B)
- program a calibration or measurement method (section C)
- change general settings (section D)

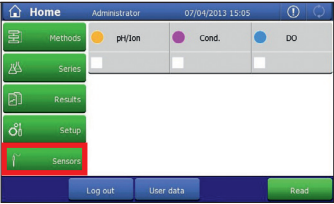

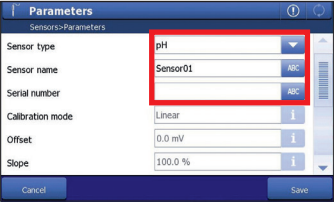
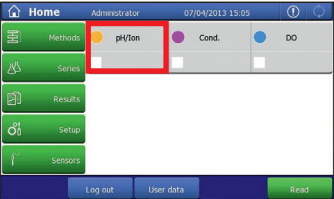
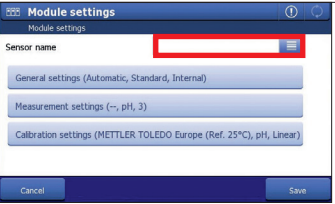
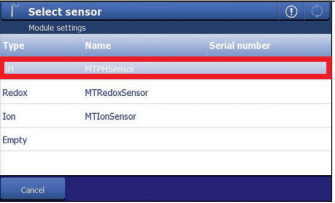
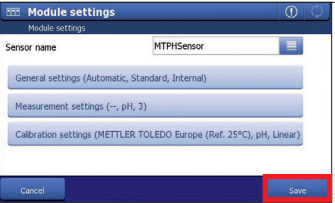
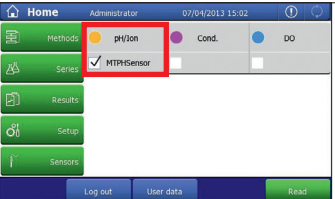
The following examples are based on the measuring parameter pH. The steps shown also apply for the other parameters such as conductivity, ion concentration or dissolved oxygen.



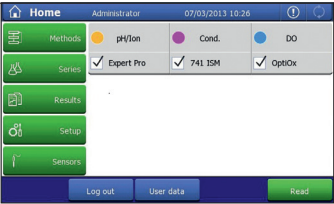
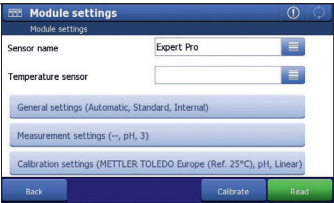
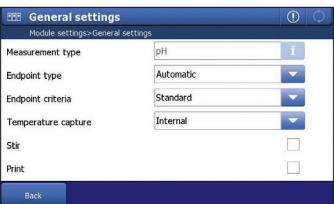
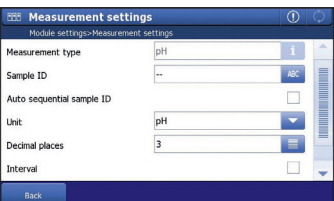
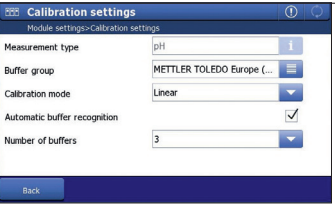
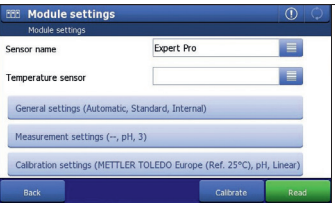

For more detailed information about operating SevenExcellence™, please refer to the operating instructions or the installation guide online at:  
▶ [www.mt.com/SevenExcellence](http://www.mt.com/SevenExcellence)

## A) Sensors: Definition and Selection

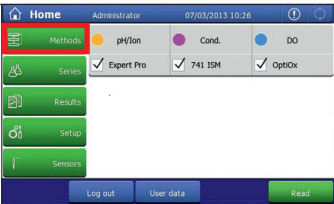

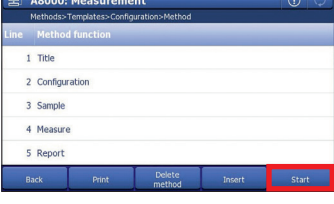
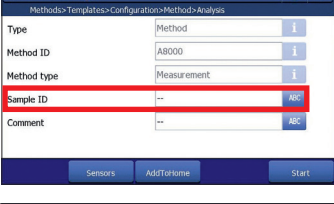


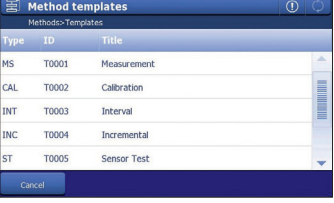
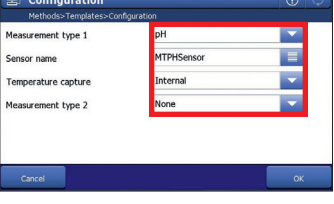
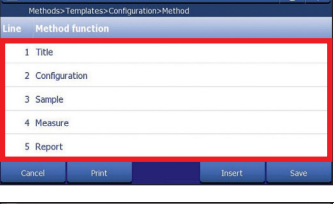

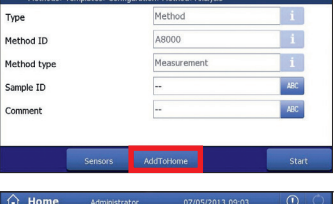
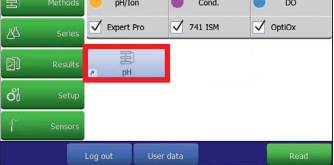
Please note: If an ISM® sensor is used, there is no need to define and select the sensor manually. A connected ISM sensor is automatically recognized.

- A1**  To create a new sensor press **Sensors**.
- A2**  Press **New** to define the parameters of your new sensor.
- A3**  Select the 'Sensor type', the 'Sensor name' and if needed, the 'Serial number'. Press **Save** to confirm.
- A4**  To select an already defined sensor, click on the desired module.
- A5**  In the 'Module settings' menu press the 'Sensor name' option.
- A6**  Select the correct sensor from the list.
- A7**  Check that the correct sensor is selected. Press **Save** followed by the **Home** icon to return to the 'Home' screen.
- A8**  The selected sensor appears on the screen.

## B) Direct Measurement: Setup and Execution

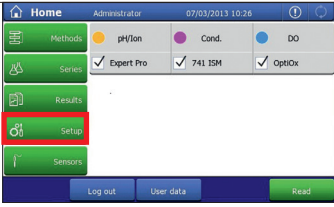

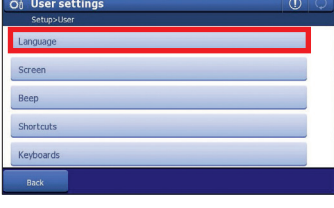
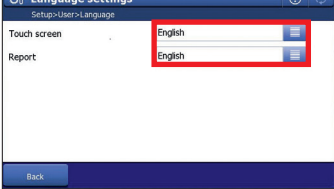

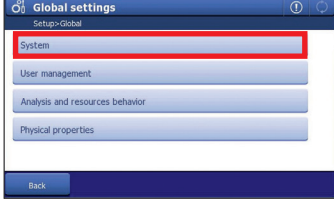
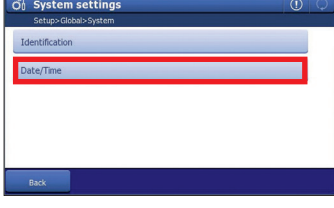
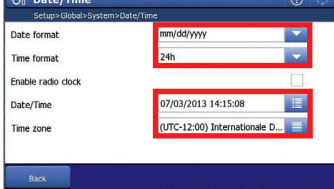
- B1**  To set up a direct measurement or calibration, click on the desired module to enter 'Module Settings.'
- B2**  In 'Module Settings' a variety of general, measurement and calibration settings can be altered. Confirm any setting changes with **OK**.
- B3**  **General settings:** Change endpoint format, temperature capture and the option to stir or print. General settings are valid for direct calibration and measurement.
- B4**  **Measuring settings:** Define your sample ID, select the measuring unit (pH or mV), the decimal places of your result and activate interval measurement.
- B5**  **Calibration settings:** Choose your buffer group, automatic buffer recognition and the number of buffers with which to calibrate.
- B6**  Press **Save**. Once set, you can directly start either calibration (press **Calibrate**) or measurement (press **Read**) from this screen.
- B7**  You can also initiate a measurement of all activated modules (indicated with a tick mark) directly from the 'Home' screen. Press **Read**.

## C) Method Measurement: Setup and Execution


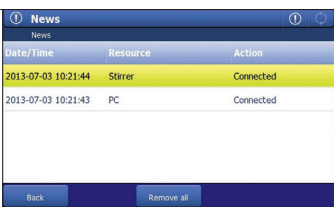
- C1**  Press **Methods** to either start your own or a pre-programmed Mettler-Toledo (Mxxx) method.
- C2**  Select the method of choice to enter the 'Method function' list.
- C3**  To run the method, press **Start**.
- C4**  In the 'Start analysis' screen it is possible to edit the 'Sample ID' or change the **Sensors**. Press **Start** to run the method.
- C5**  To create a new method based on a Mxxx method, change the 'Method ID' in the 'Title'. This creates an editable copy of the method.
- C6**  To create a new method press **New**.
- C7**  Select the desired method template, e.g. Calibration or Measurement.
- C8**  In the 'Configuration' screen you can define channel(s) and sensor(s) for your method. Press **OK** to confirm.
- C9**  Set the parameters in all method functions according to your needs. Press **Insert** to add a new method function.
- C10**  Once you have configured your method, press **Save**. Press **Start** to run the method.
- C11**  In the 'Start analysis' screen you have the option to create a short cut on the 'Home' screen. To do so, press **AddToHome**.
- C12**  The method can now also be started immediately from the 'Home' screen with **One Click™**.



## D) General Settings: Setup

- D1**  Press **Setup**. In the 'Setup' menu, you can change various settings, including language, date and time, acoustic signal etc.
- D2**  The following steps show how to set languages and change date and time. To set languages press **User settings**.
- D3**  Press **Language**.
- D4**  Press the 'Touch screen' /'Report' option and select your preferred language. To confirm press **Save**.
- D5**  To change date and time press **Global settings**.
- D6**  Press **System**.
- D7**  Tap **Date/Time**.
- D8**  Press the different options and select your preferred date and time format and set your date, time and time zone. To confirm, press **Save**.

## E) Appendix: News List

- E1**  Actions that are not related to entered values or running measurements are added to the 'News List'. Example: Sensor or peripheral device detected.
- E2**  New actions or changes are listed in yellow on the 'News List.'
- | Date/Time           | Resource | Action    |
|---------------------|----------|-----------|
| 2013-07-03 10:21:44 | Stirrer  | Connected |
| 2013-07-03 10:21:43 | PC       | Connected |

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 Printed in Switzerland  
 Global MarCom Greifensee

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For more information