HYDROTECHNIK

ENG

HYDROlink6 Base

Manual

Software version 6.2.4
Manual version 2.0

Manufacturer

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Your experiences and feedback

We appreciate your suggestions and feedback. It helps us to continually improve our products.

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About this manual

Operation

Software description

About this manual

This chapter will provide you with basic information about this manual.

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Scope

This manual applies to software packages with the name HYDROlink6 Base, produced by HYDROTECHNIK GmbH, Limburg, Germany. The instructions apply only to software with the version number indicated on the title page of this manual.

If you do not have the appropriate manual for your software, it is also available on our homepage: **www.hydrotechnik.com**

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Purpose of the manual

This manual helps users do their daily work with the software. It contains information about the windows, dialogs, commands, and buttons of the software and explains specific procedures and operational steps. For information that extends beyond the content of this manual, we will be glad to offer you customer-specific trainings.

Please contact our sales department or your local HYDROTECHNIK partner for additional information.

Required knowledge

This manual assumes that you have previous experience in working with the Windows operating system and its operating elements, e.g. drop-down lists, buttons, etc. Typical Windows dialogs such as **Save as** and their operating elements are not described in this manual.

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Structure of the information

The information used in the manual and its meaning are explained in the following.

Note

This note informs you about possibly dangerous situations that can occur due to an operating error/inappropriate behaviour. If these situations are not avoided, damage to the machine or its surroundings can result.

This note will provide you with tips to make your work easier. This note will also provide you with further details about the working process.

Abbreviations used

The following abbreviations are used in this manual.

approx.	approximately
CAN	Controller Area Network
CPU	Central Processing Unit
ISDS	Intelligent Sensor Detection System
LAN	Local Area Network
max.	maximum
min.	minimum
MB	MultiBox
MC	MultiControl
MH	MultiHandy
MS	MultiSystem
PC	Personal Computer
PGN	Parameter Group Number
SA	Source Address
SPN	Signal Number
tab	Tabulator
USB	Universal Serial Bus
e.g.	for example

Symbols used

The following symbols are used in this manual.

➔	Beginning of an operating sequence
1, 2, ...	Steps within an operating sequence
■	End of an operating sequence
⇨	Cross-reference to a different part of this manual or to a different document.
(A)	Reference to the element indicated by letters in a figure
Button	**Blue boldface** refers to switches, controllers, sliders, buttons, and terms from the software.
Ctrl + c	**Red boldface** refers to keys on the keyboard. If keys should be pressed at the same time, this will be indicated with a plus sign (+).
Path > Dialog	Path specification. This is how you reach the dialog/function described.
BASE	Indicates information that is only valid if one of the following measuring devices is connected or if another measurement device was connected and no higher edition was licensed: • MultiHandy 2020 • MultiHandy 2025 • MultiHandy 3020 • MultiSystem 4010
MultiBox	Indicates information that is only valid if one of the following measuring devices is connected: • MultiBox 3060 • MultiBox 3061 • MultiBox 3065
MultiControl	Indicates information that is only valid if measuring devices in the MultiControl are connected.

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Operation

This chapter explains how to use the software properly.

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Introduction

HYDROlink6 is software from HYDROTECHNIK.

Functional description

HYDROlink6 facilitates the operation of HYDROTECHNIK measurement devices that are connected to the computer.

HYDROlink6 provides you with the following functions:

- Display of current measurement values of selected channels
- Display min./max. measurement values of selected channels
- Display of measurement series stored on the measurement device
- Saving of measurement series
- Export of measurement series as graphic (PNG, JPG, BMP, GIF)
- Printout of a measurement series log or saving as a PDF file.
- Display of measurement series saved on the computer, exporting or creating a log of these

You can change the display of the measurement values and measurement series. You can adapt the layout of the log.

You can operate the HYDROlink6 using the mouse, your voice, or a touch screen.

Program versions

The application is available in three versions:

- BASE
- ADVANCED
- PROFESSIONAL

These instructions describe the BASE version.

After installing HYDROlink6, the **BASE** version is available. To work with the **ADVANCED** or **PROFESSIONAL** version, an appropriate license must be purchased and activated.

If you connect other measurement devices, only the functions of the **BASE** version are available since these measurement devices cannot be operated remotely.

The functions of the **ADVANCED** and **PROFESSIONAL** versions are available for measurement devices in the **5060-**, **8050-**, and **xx70** families.

If a **MultiBox**, a **MultiPanel** or a device in the **MultiControl** family is connected, then the **ADVANCED** version is released automatically.

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System requirements

Please observe the following system requirements.

Operating system

Microsoft Windows 7 SP1 or higher.

We recommend the 64-bit version.

.NET Framework

.NET Framework 4.8.

PDF viewer

Adobe Reader or comparable reader program.

Hardware

At least the same system requirements of Microsoft Windows 7.

Recommended hardware:

- Processor: Intel i3 multi-core processor with 2.5 GHz or comparable processor
- Memory: 4 GB
- Printer
- Multi-touchscreen is supported

Supported measurement devices

HYDROlink6 supports all listed measurement devices. If you connect a MH 2020, MH 3020 or MS 4010 measurement device to HYDROlink6, then HYDROlink6 switches automatically to the **BASE** version regardless of which version was licensed. This is because these measurement devices do not support the **ADVANCED** version.

- MH 2020 (only **BASE** functionality)
- MP 2025
- MH 3020 (only **BASE** functionality)
- MS 4010 (only **BASE** functionality)

Installation

A set-up wizard will assist you during the installation of HYDROlink6.

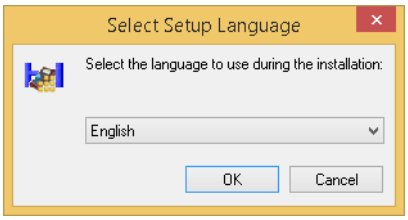
➔ **How to install HYDROlink6**

1 Disconnect all HYDROTECHNIK measurement devices from the computer.

2 Save and close all applications.

3 Execute the installation file and confirm the Windows security queries.

4 Select the set-up language.



5 Follow the instructions in the set-up wizard.

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Setting up HYDROlink6

You can start and set up HYDROlink6 after the installation has been completed.

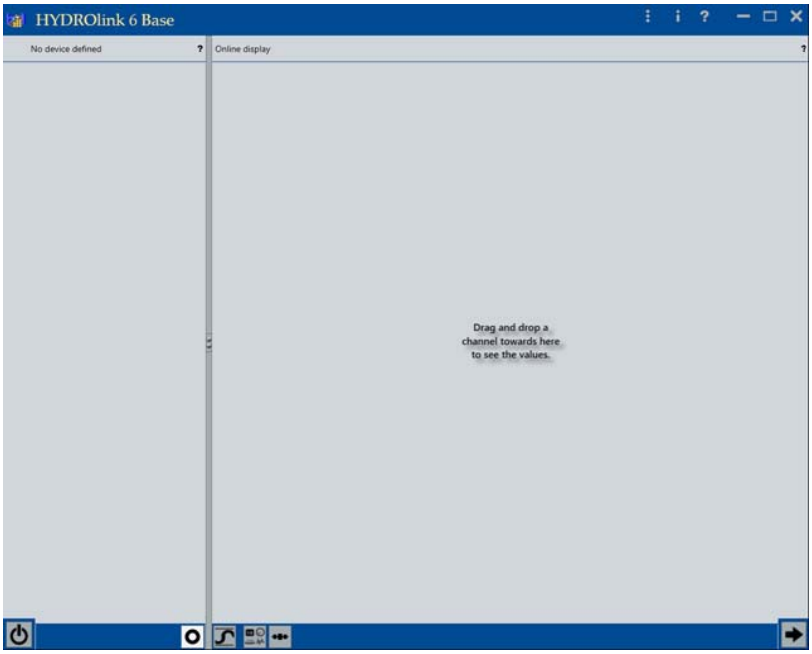

Image: HYDROlink6

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You can adapt HYDROlink6 to your needs.

All settings are made on the **Settings** dialog and described in the **Software description** chapter.

⇨ **Voice control** on page 86

You should always specify the following settings:

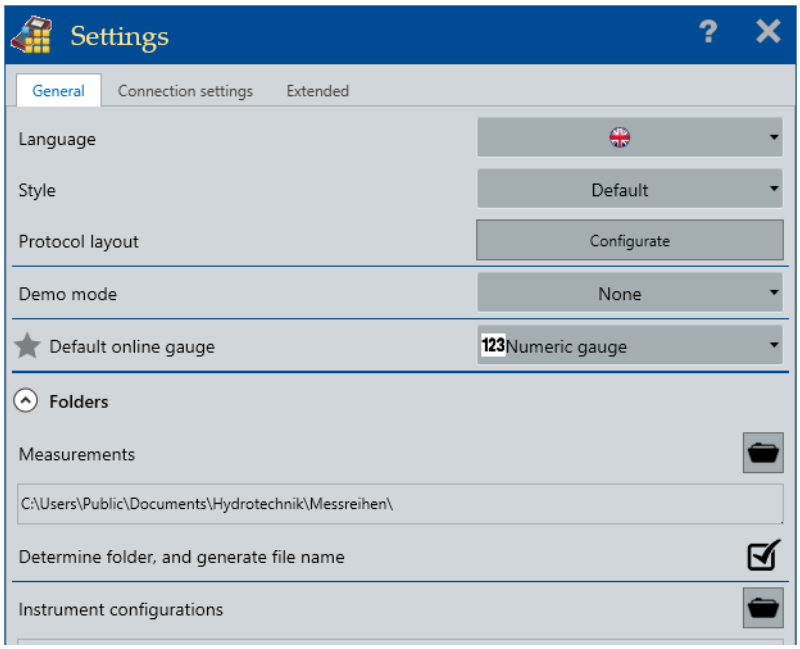
- **User interface language**
- **Default directories for measurement series**
- **Log layout**

➔ **How to open and close the Settings dialog**

1 Double-click the HYDROlink6 icon on your desktop to start HYDROlink6.

2 Click the **Open Settings dialog** button .

The settings dialog is displayed.



All changes and input are immediately adopted by HYDROlink6. Saving the settings is not necessary.
A new language will be used the next time the application is started.

3 Click the **Close** button to close the settings dialog.

■

User interface language

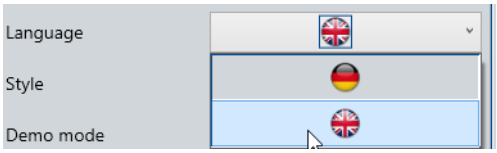
HYDROlink6 uses the language of the operating system as its default setting. If HYDROlink6 does not have this language, HYDROlink6 will be installed with the English user interface.

You can change the user interface language on the **Settings** dialog on the **General** tab.

➔ **How to specify the user interface language**

1 Click the button next to the **Language** entry.

The list of available languages is displayed.



2 Click the desired language symbol.

3 Close the **Settings** dialog.

4 Close HYDROlink6.

5 Restart HYDROlink6.

HYDROlink6 starts in the new language.

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Default directories for measurement series

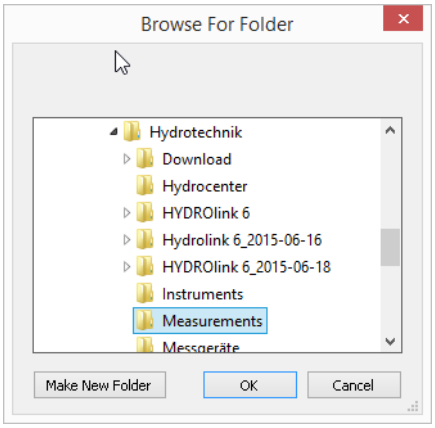
During installation, HYDROlink6 creates a default directory for measurement series and measurement device configurations.

You can change the default directory and specify that HYDROlink6 saves new measurement series in the default directory automatically.

➔ **How to specify the default directory for measurement series**

1 Click the button in the **Directories** area.

The Windows **Browse folder** dialog is displayed.



2 Mark the desired folder or create a new folder.

3 Click **OK**.

4 To have HYDROlink6 save new measurement series automatically, click . The time stamp is used as file name.

■

You specify the default directory for measurement device configurations analogously. This setting is also in the **Directories** area.

Log layout

You can change the layout of the log on the **Log layout** dialog.

On the **Settings** dialog, click the **Configure** button next to the **Log layout** entry to open the **Log layout** dialog.

⇨ **Configuring the log layout** on page 41.

Licensing HYDROlink6

After installation, the **BASE** version is available. The **ADVANCED** and **PROFESSIONAL** versions must be licensed.

Licensing is done in five steps:

1. Purchase desired version
2. Register
3. Request license
4. Receive license file
5. Activate license

When purchasing HYDROlink6, you select the desired version. With the purchase, you receive a serial number for the selected version. After you have installed HYDROlink6, request a license.

➔ **How to register**

1 Click the **Open info dialog** button **i**.

2 Select **Request license**

3 Select **Registration**.

You will be forwarded to the HYDROTECHNIK customer center. Enter the required data.

After registration, you must click the link in the registration e-mail.

A license for a **ADVANCED** or **PROFESSIONAL** version can only be requested with an e-mail address that has already been registered.

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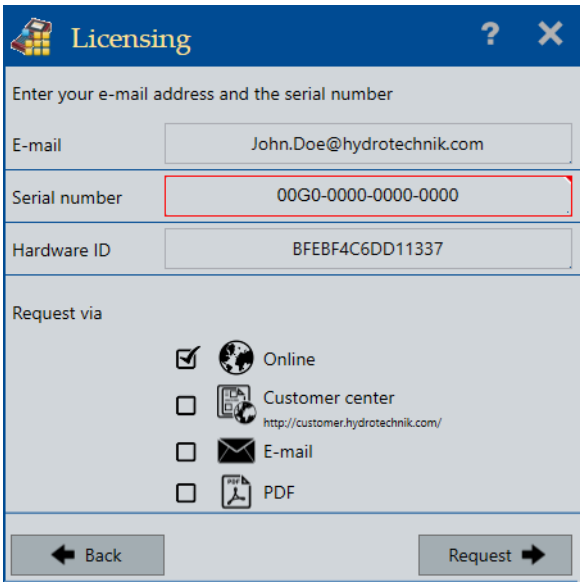
➔ **How to request a license**

1 Click the **Open info dialog** button i.

2 Select **Request license.**

3 Click the **Next** button.

The **Licensing** dialog is displayed.



4 Enter the required data.

E-mail: Enter the e-mail address with which you are registered at HYDROTECHNIK.

Serial number: You receive the serial number in the form of a certificate when you have purchased a **ADVANCED** or **PROFESSIONAL** version. In the serial number, there are no **Os**; any characters that look like this are always the number zero (**0**).

Hardware ID: This is generated automatically by the software and entered in the field.

5 Select one of the methods for requesting the license.

Online: The license request and activation are done automatically in a single step. This option can be blocked by firewall settings. In this case, contact your network administrator.

Customer center: You will be forwarded to the HYDROTECHNIK customer center. After you have logged in, the licensing page opens. The license file and license key will be created automatically and sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

E-mail: Your license request is sent to the HYDROTECHNIK customer center via e-mail. The license key is generated manually by the customer center employees. The license file and license key will be sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

PDF: Your license request is generated as PDF. You can send it via e-mail or post to the HYDROTECHNIK customer center. The address is included in the PDF. The license key is generated manually by the customer center employees. The license file and license key will be sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

In the customer center, you can check how many free licenses are present.

■

➔ **How to activate a license manually**

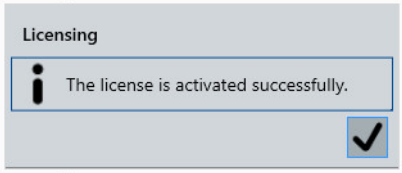
1 Click the **Open info dialog** button .

2 Select **Activate license**.

The Windows **Open** dialog is displayed.

3 Select the license file that you have received via e-mail.

The license is activated.



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Overview

Get an overview of the various application cases and the user interface in order to use HYDROlink6 optimally.

Flow of different application cases

There are the following application cases for HYDROlink6:

- **Displaying measurement series without connected measurement device**
- **Displaying measurement series without connected measurement device**

There is a typical sequence of activities for each application case.

Displaying measurement series without connected measurement device

If you have saved individual measurement series on your computer, the software can display measurement series without a connected measurement device.

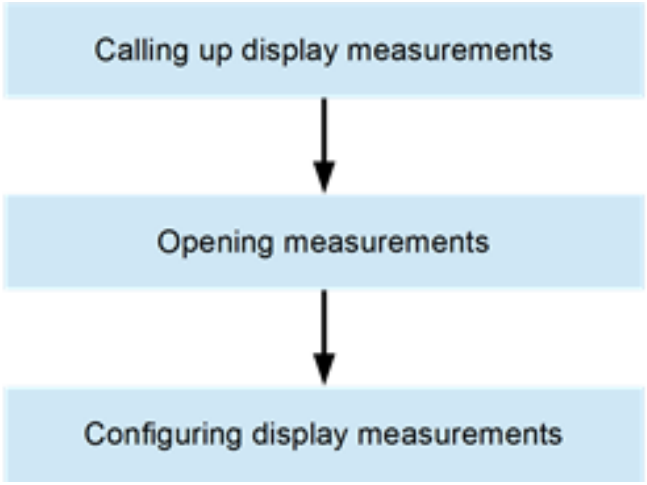
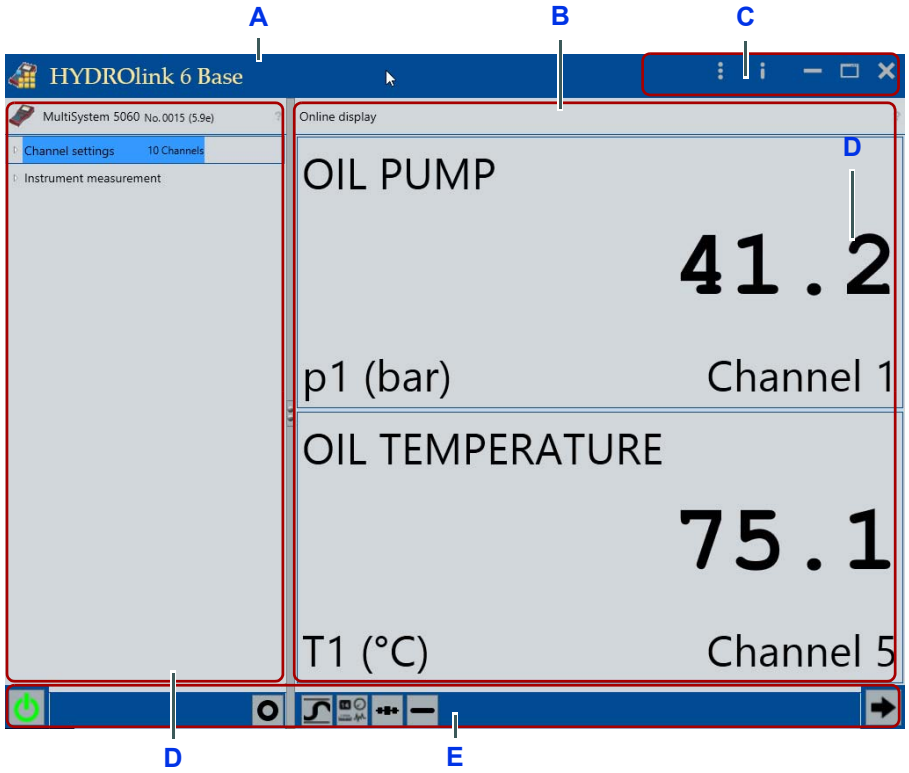


Image: Displaying measurement series without connected measurement device

⇨ **Using the Measurement display** on page 30

User interface



A Voice control
B Viewer
C Information and configuration bar
D Device explorer
E Toolbar

Image: HYDROlink6 Application window with Online display

HYDROlink6 is divided into two main areas:

The left side is the device explorer (**D**) and shows information about connected measuring devices in a hierarchical structure. If no measurement device is connected, the most recently displayed information will be shown.

⇨ **Device explorer** on page 48.

The right side (**B**) is the viewer. The viewer shows the **Online display** or the **Measurement series display**. The online display shows current measurement values for the connected measurement device. The **Measurement series display** shows saved measurement series as a line graph. You can open measurement series from the measurement device or the computer.

The two areas, device explorer and viewer, can be made wider or narrower and separated from another by dragging the bars. Use the handles to adjust the width of the areas.

Use the **Switch** button to switch between the **Online** display and the **Measurement series display**.

⇨ **Using the online display** on page 24
⇨ **Using the Measurement display** on page 30

You can open the help with the **?** button ? or with the **F1** key. The help is context-sensitive. This means that the help is opened to the part of the software description that is relevant for the current part of the user interface.

⇨ **Software description** on page 45

The toolbar (**E**) is located under the device explorer, the online display and the measurement series display. Different tools are offered for the **Online display**, the **Device display,** and the **Measurement series display**.

The information and configuration bar (**C**) is in the top right.

In addition to the default Windows button, you can open the **Info menu** :

- **Help**

  ⇨ **Software description** on page 45
- **About...**
- **Request license**

  ⇨ **Licensing HYDROlink6** on page 15

  ⇨ **Licensing dialog** on page 82
- **Activate license**

You can also open the **Settings** .

⇨ **Voice control** on page 86.

You can operate certain functions of HYDROlink6 using voice control. Voice control must be activated in the **Settings**. When activated, the symbol will be displayed in the title bar (**A**).

⇨ **Voice control** on page 86.

Starting tips

HYDROlink6 will show you information about many of the buttons the first time you use them. The information provides a brief description of the button. This will help you learn how to use HYDROlink6.

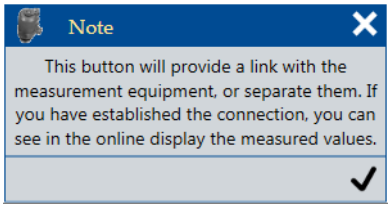


Image: Note about starting tips

Click the checkmark to close the information window. HYDROlink6 will subsequently execute your command. The next time you click the same button HYDROlink6 will no longer show the starting tip; it will execute your command directly.

If you would like HYDROlink6 to show you the starting tip again, activate the starting tips in the **Settings**.

⇨ **Advanced tab** on page 75.

Touch operation

HYDROlink6 supports touch-capable devices, for example, tablets. Use familiar gestures from tablet interfaces. For simplicity's sake, these instructions only describe the operation using a mouse. Touch gestures are only described in certain situations.

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Tooltips

HYDROlink6 will show you tooltips in many places, for example, if you hover the mouse pointer over **Channel parameters**. When using touch operation, leave your finger on the corresponding point for approx. one second.

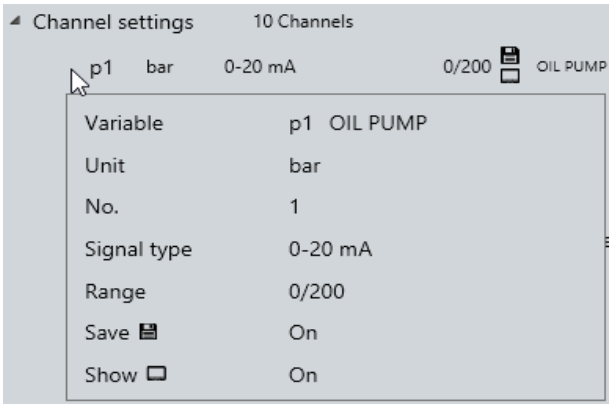


Image: Tooltip

Connecting a measurement device

You must physically connect a measurement device to the computer and to HYDROlink6 to enable HYDROlink6 to access the measurement device.

➔ **How to connect your measurement device to HYDROlink6**

1 Connect the measurement device to the computer.

The operating instructions for the measurement device will explain how to connect the measurement device to the computer.

2 Switch the measurement device on.

Wait until the measurement device has switched on and Windows detects it as a device.

3 Open HYDROlink6.

4 Click the **Connect** button .

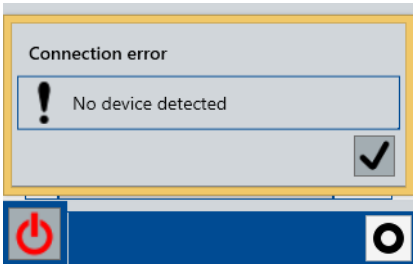
When the measurement device is connected to HYDROlink6 the **Connect** button icon is green.

■

Connection error

If HYDROlink6 is unable to detect any measurement device, then no connection can be established.

HYDROlink6 displays the **Connection error** dialog. The **Connecting** button symbol is red.



Check whether the measurement device is correctly connected to the computer and switched on.

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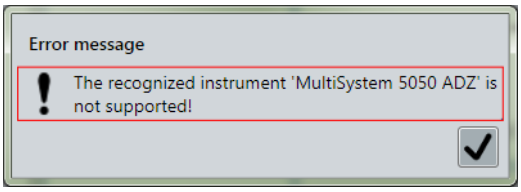
Unsupported measurement device

HYDROlink6 checks the model of the measurement device.

If the model is not supported by HYDROlink6, an error message will be displayed. You can not use the measurement device with HYDROlink6. You may require different software. Contact our customer service or your contact person at HYDROTECHNIK for more information.

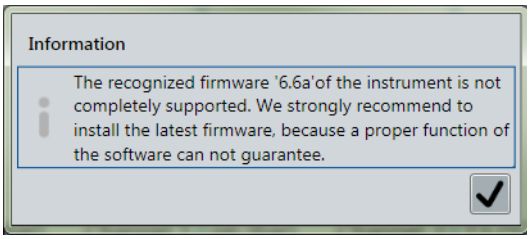
⇨ **Supported measurement devices** on page 10.



Firmware version information

HYDROlink6 checks the firmware version of the measurement device.

Information will be displayed if the firmware version is not compatible with HYDROlink6. Depending on the situation, HYDROlink6 may be able to work with the measurement device, however, in a limited way.



Click the checkmark to close the information. In the device information, the symbol ⚠ indicates that the firmware version is not fully supported by HYDROlink6.

Perform a firmware update on your measurement device.

Multiple measurement devices

HYDROlink6 always establishes the connection to just one measurement device.

If there is more than one measurement device connected to the PC and available for HYDROlink6, the following measurement device will be selected for the connection:

1. The last measurement device to which HYDROlink6 connected.
2. The measurement device connected via USB.
   If more than one measurement device via USB is available, the measurement device that the operating system detects first will be used.
3. The measurement device connected via RS232 (serial interface) or via Bluetooth.
4. The measurement device connected via TCP/IP network.
   HYDROlink6 checks the list of TCP/IP connections. The first possible connection will be used.

Using the online display

If you connect a measurement device with HYDROlink6, you can use the online display.

The online display shows the current measured values of the selected channels.

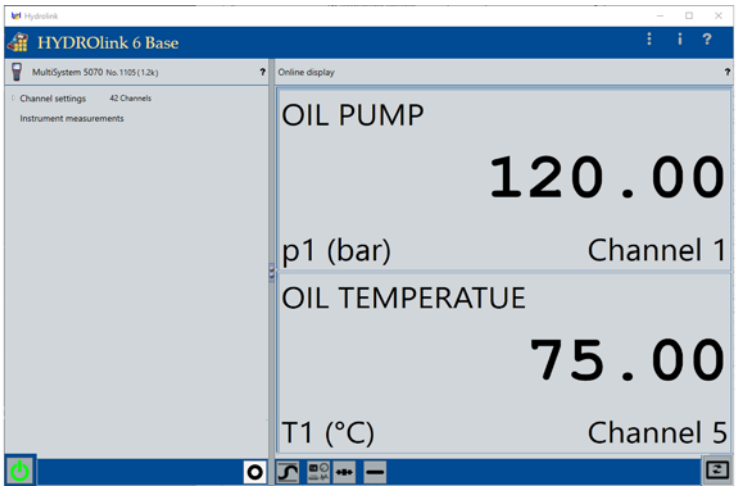


Image: Online display with two channels

In the device explorer under **Channel parameters**, the icon indicates that a channel is selected for the online display.

BASE With measurement devices in the *MultiHandy product family*, all available channels are always displayed. With the *MultiHandy 2020*, *MultiHandy 2025*, and *MultiPanel 2025* devices, special channels are also displayed, if they are available.

Use the **Switch** button to switch between the **Online** display and the **Measurement series display**.

⇨ **Using the Measurement display** on page 30

Selecting, arranging and deleting channels

On measurement devices that have more than 3 channel inputs, you can specify which channels are displayed.

You have connected a measurement device.

⇨ **Connecting a measurement device** on page 22

The online connection is displayed in the title bar of the viewer with an animation .

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Selecting a channel for the online display

Drag a channel from the **Channel parameters** of the device explorer into the **Online display**.

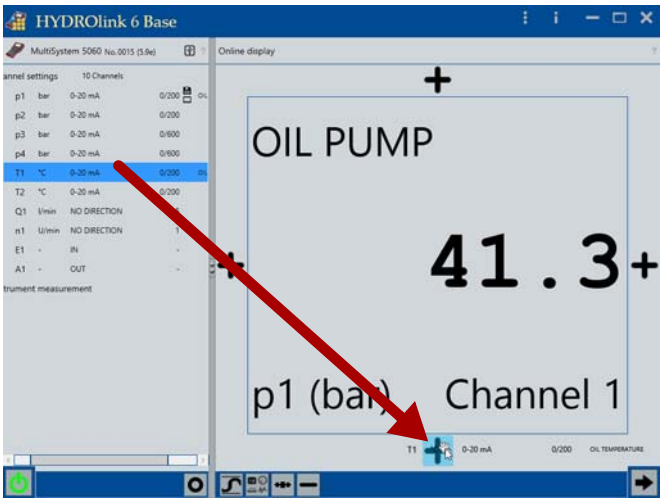

Image: Dragging a channel into the online display

➔ **How to position a channel next to an existing channel display**

1 Drag the channel into the **Online display**.

You can position the channel wherever **+** symbols are displayed.

Drag & drop also works on a touchscreen for this step.

2 Drag & drop the channel onto the **+** symbol.

■

➔ **How to replace an existing channel display**

1 Drag the channel onto a channel in the **Online display**.

The channel display changes colour to dark blue.

2 Let go of the channel to replace the channel display.

■

Arranging channels in the online display

Swap the positions of the displayed channels using drag & drop.

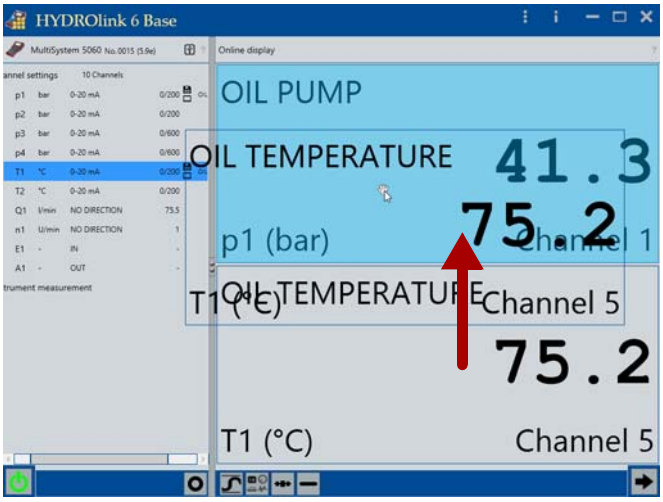

Image: Swapping channels in the Online display

You can swap the position of channels in the **Online display**:

➔ **How to swap the position of channels in the channel display**

1 Mark a channel in the **Online display** using your mouse.

1 Drag the channel onto a different channel in the **Online display**.

The channel display changes colour to dark blue.

2 Let go of the channel.

The positions of the two channels are swapped in the **Online display**.

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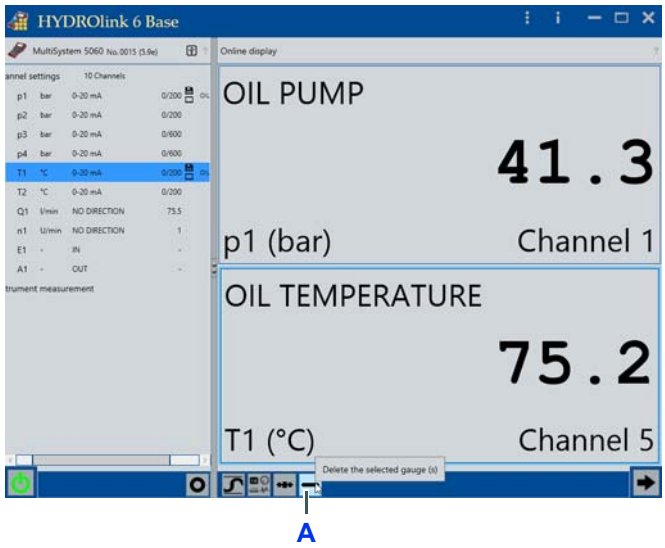
Deleting channels from the online display

Delete the channels from the **Online display** with the **Delete** button.

BASE Not possible with measurement devices in the *MultiHandy* product family.



A **Delete** button

Image: Deleting a channel from the online display

➔ **How to delete a channel from the online display:**

1 Mark the desired channels in the **Online display**.

Marked channels have a blue border.

2 Click the **Delete** button (**A**) to delete all marked channels from the **Online display**.

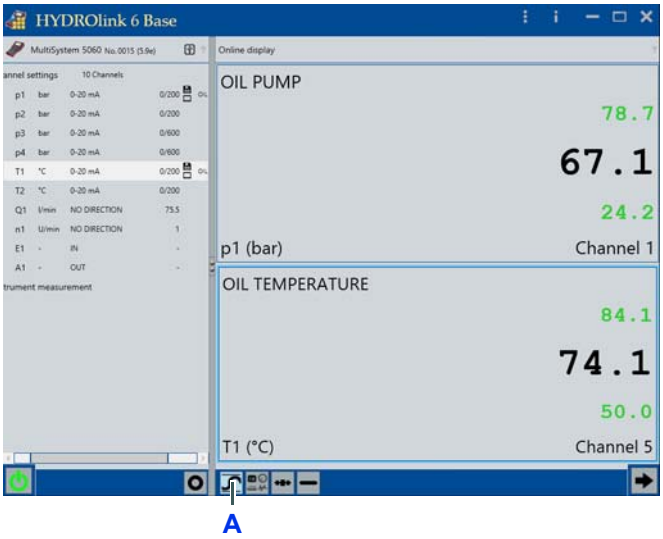
■

⇨ **Min/Max values**

⇨ **Changing and scaling the display style**

Min/Max values

You can switch the **online display** of the min/max values on or off.



A **Max/Min** button

Image: *Min/Max values*

➔ **How to switch the max/min values on**

1 Click the **Min/Max** button (A).

The min/max values are displayed.

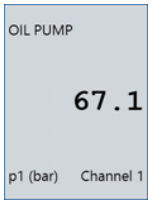
2 Click the **Min/Max** (**A**) button to switch the min/max values again.

■

ENG

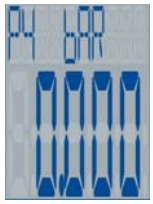
Changing and scaling the display style

You can change the display style for every channel display.

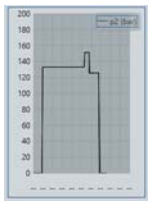


Numeric gauge


Analog gauge


Segment gauge


Linear gauge


Line graph

Measurement device display

Image: Display style of the online display

If a channel is added to the **Online display**, the standard display style will be used for the channel view.

⇨ **Voice control** on page 86

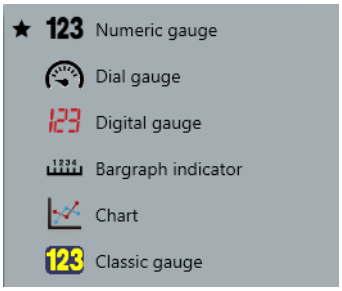
➔ **How to change the display style**

1 Mark the desired channels in the **Online display**.

Marked channels have a blue border.

2 Click the **Display style** button .

The list of display styles is displayed.



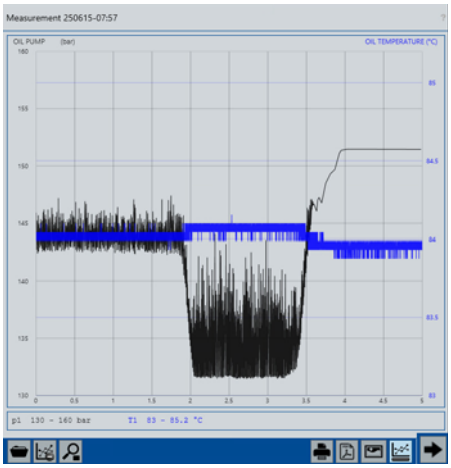
■

For the display styles Analog gauge and Linear gauge, you can scale the display .

⇨ **Scaling dialog** on page 84

Using the Measurement display

You can save measurement series from the connected measurement device onto the computer and display them in the **Measurement series display**. You can open measurement series that have been saved on your computer without a measurement device being connected to HYDROlink6.



Measurement series are saved as MWF files.

In the device explorer under **Device measurement series** or **Online measurement series**, the symbol indicates that a measurement has already been saved to the computer. You can display this measurement series without having the measurement device connected to HYDROlink6.

Measurement series are displayed as line graphs.

The horizontal axis is the time axis. The two vertical axes represent one channel apiece. Channels with the same unit are summarized on one axis.

Use the **Switch** button to switch between the **Online** display and the **Measurement series display**.

⇨ **Using the online display** on page 24

Displaying measurement series

You can import measurement series from the measurement device or open saved measurement series.

Saving and displaying measurement series from the measurement device

Drag a measurement from the **Device measurement** of the device explorer into the **Measurement display**.

ENG

You can also drag a measurement series (MWF file) from the Windows Explorer into the measurement series display.

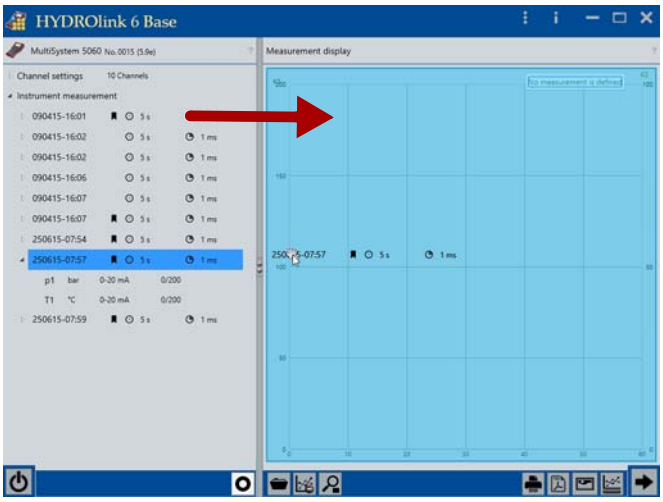


Image: Saving and displaying measurement series from the measurement device

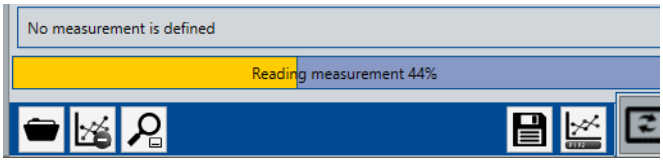
➔ **How to save and display a measurement series**

1 Drag a measurement series into the **Measurement series display**.

2 If automatic saving is not specified in the **Settings**, the Windows **Save as** dialog will be displayed.

⇨ **Directories** on page 73

Select the destination and enter a file name. Click **Save**.



3 The measurement series is saved on the computer and then displayed in the **Measurement series display**.

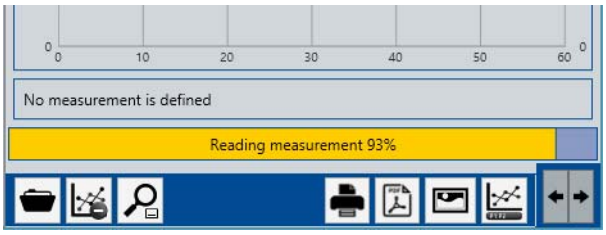
■

➔ **How to open a saved measurement series**

1 Click the **Search** button in the measurement series display.

The Windows **Open** dialog is displayed.

2 Navigate to the desired measurement and open the measurement.



3 The measurement is displayed in the **Measurement series display**.

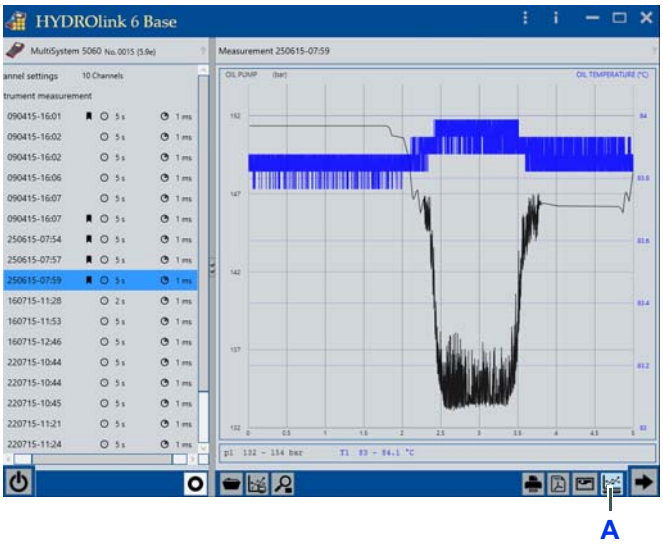
■

Changing the measurement series display

You can change the position of the legend, zoom the measurement or clear the **Measurement display**.

Changing the position of the legend

Change the position of the legend using the **Legend** button.



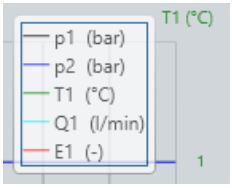
A **Legend** button

Image: Changing the position of the legend

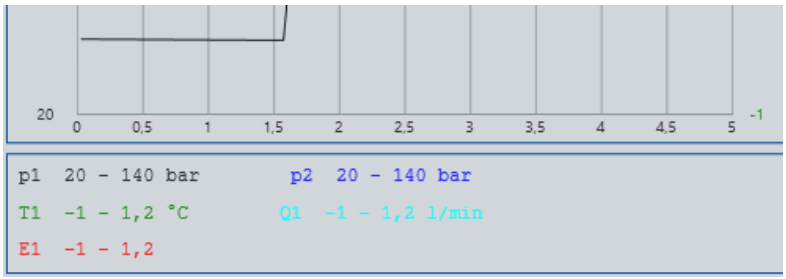
ENG

The legend can be displayed at the following positions:

- Top right

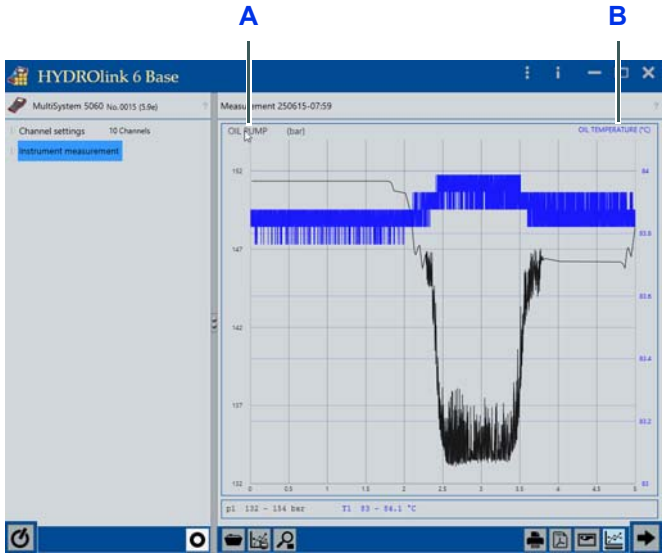


- Below the line graph



Changing the axis labeling

Click the axis labeling to change it.



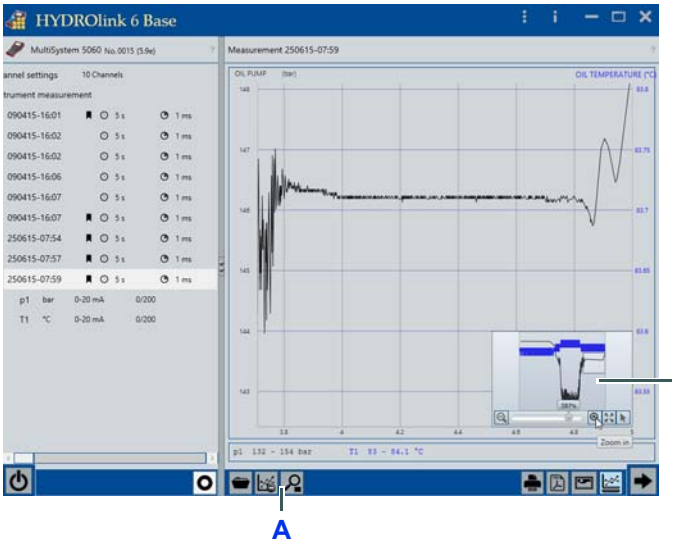
A Left axis labeling **B** Right axis labeling

Image: Changing the axis labeling

ENG

Enlarging the line graph

You can enlarge the line graph of the **Measurement display**.



A **Zoom** button **B** **Zoom menu**

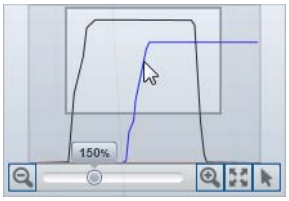
Image: Enlarging the line graph

The line graph can be zoomed in the following ways:

- Point the mouse over the line graph and scroll the mouse wheel.
- Drag a box around the area you want to zoom.
- Use the **Zoom** button to overlay the **Zoom menu**.

  Point the mouse over the **Zoom menu** and click a button.
- For touch operation:

  Use the normal gestures (example: spread your fingers) to zoom in on a line graph.



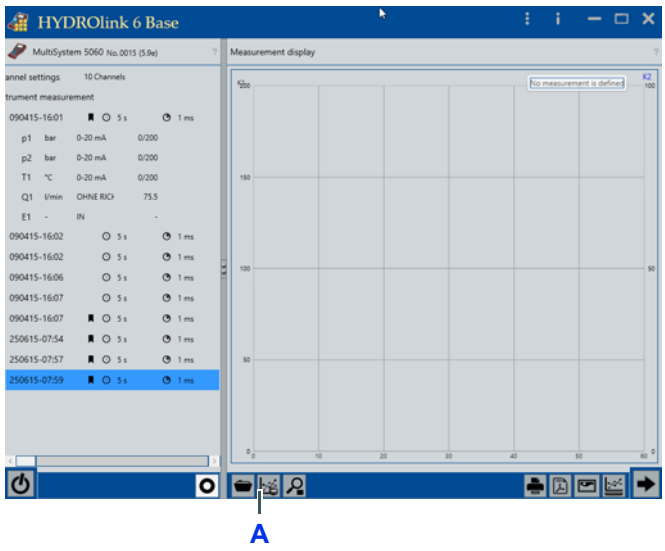
To change the position of the section, grab the section in the **Zoom menu** and move it.

Click **Reset zoom** to display the line graph in the original size.

ENG

Clearing the measurement series display

Clear the **Measurement series display** with the **Clear** button.



A **Clear** button

Image: Clearing the measurement series display

Recording a measurement

You can record measurement series from the connected measurement device with HYDROlink6. The measurement device must be connected to HYDROlink6 for this.

Only the channels are recorded that are marked with the symbol in the channel parameters.

In the ADVANCED and PROFESSIONAL versions, the measurement series is recorded directly by the measurement device and only then transferred to the HYDROlink6. As compared to the BASE version, this procedure offers the advantage that the full sampling rate of the measurement device is available. When recording measurement series in the BASE version, the recording is not done on the measurement device, but rather on the computer. Therefore, the sampling rate for the BASE version is limited by the type of connection to the computer (e.g. USB connection). In the BASE version, the smallest sampling rate is 10 milliseconds.

The measurement series recorded is saved as a MWF file on an available hard drive on the PC. Depending on the setting, HYDROlink6 will automatically save the measurement series or you must specify the file name and destination manually. If HYDROlink6 saves the measurement series automatically, the file name will be created from the current date and time.

⇨ **Default directories for measurement series** on page 14

➔ **How to record a measurement**

1. Specify the channels you want to record.

   To do this, select these channels for the **Online display**.

   ⇨ **Selecting, arranging and deleting channels** on page 25

2. Click the **Recording** button .

3. If automatic saving is not specified in the **Settings**, the Windows **Save as** dialog will be displayed.

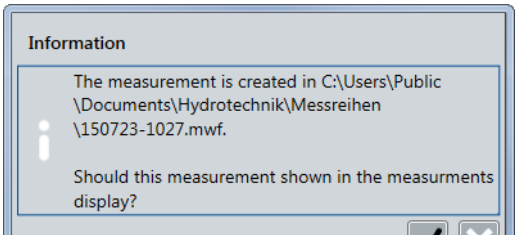
   ⇨ **Directories** on page 73

   Select the destination and enter a file name. Click **Save**.

   The measurement series is recorded.

4 Click the **Stop** button ■ to stop the recording.

The **Information** dialog shows the file name and the destination of the measurement series.

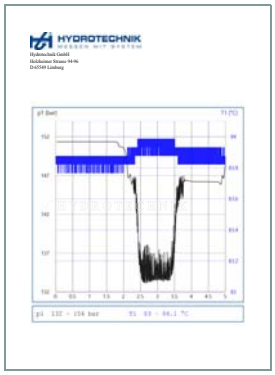


5 Click the ✓ button to display the measurement in the Measurement series display.

■

ENG

Log



You can print out the log of a measurement series or save it as a PDF file.

Use the log to document your activity or the condition of the inspected system.

The log consists of up to 5 areas:

1. Company logo
2. Company name
3. Line graph
   Corresponds to the diagram display in the Measurement display.
4. Measurement series information
5. Additional text (e.g. name of the inspector, inspection date)

ENG

Generating a log

You can print out a log created directly or save it as a PDF file.

➔ **How to print a log**

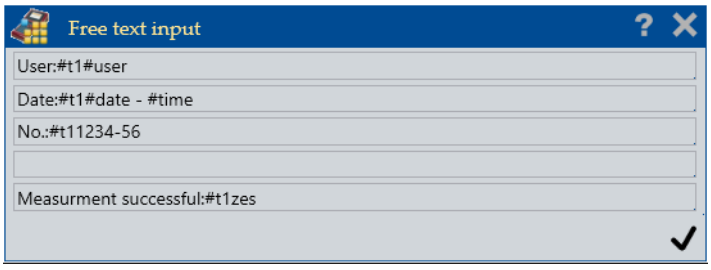
1 Open the measurement series for which you would like to generate a log.

⇨ **Saving and displaying measurement series from the measurement device** on page 30

2 Click the **Print** button .

3 If the free text input is activated in the settings, the **Free text input** dialog will be displayed.

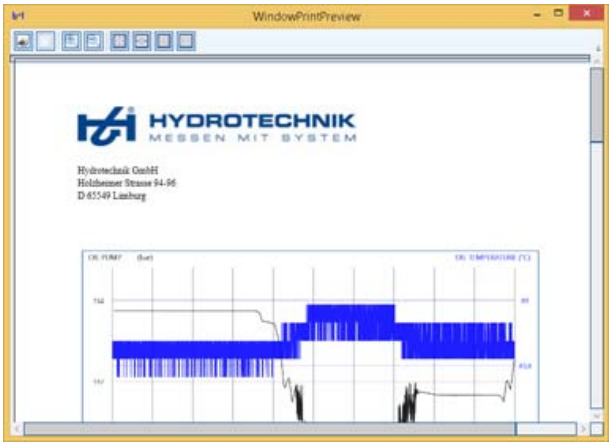
⇨ **Configuring the log layout** on page 41.



Change or add to the text.

4 Click the ✓ button.

The Windows **WindowPrintPreview** dialog is displayed.



5 Click the **Print** button.

The log is printed.

■

➔ **How to save a log as a PDF file**

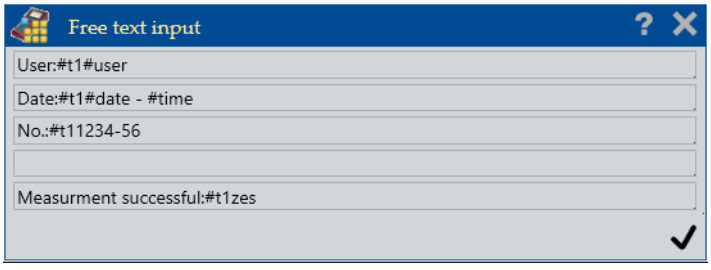
1 Open the measurement series for which you would like to generate a log.

⇨ **Saving and displaying measurement series from the measurement device** on page 30

2 Click the **Save as PDF** button.

3 If the free text input is activated in the settings, the **Free text input** dialog will be displayed.

⇨ **Configuring the log layout** on page 41.



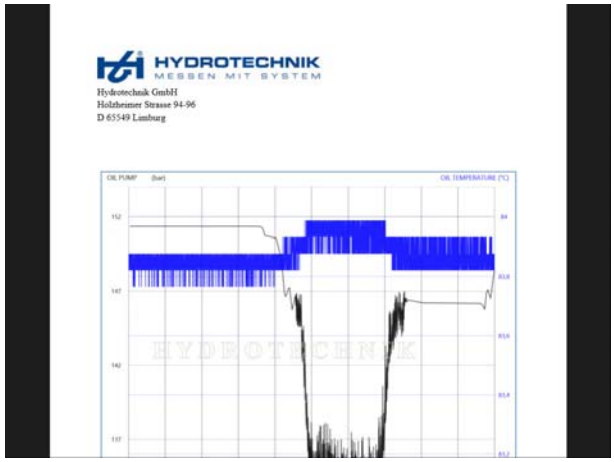
Change or add to the text.

4 Click the ✓ button.

The Windows **Save as** dialog is displayed.

5 Select the destination and enter a file name. Click the **Save** button.

The log is created as a PDF file and then displayed in the PDF viewer.



■

ENG

Configuring the log layout

You should configure the layout of the log when setting up HYDROlink6.

The **Show example** button shows or hides a preview for the **Line graph** and **Measurement series information** areas.

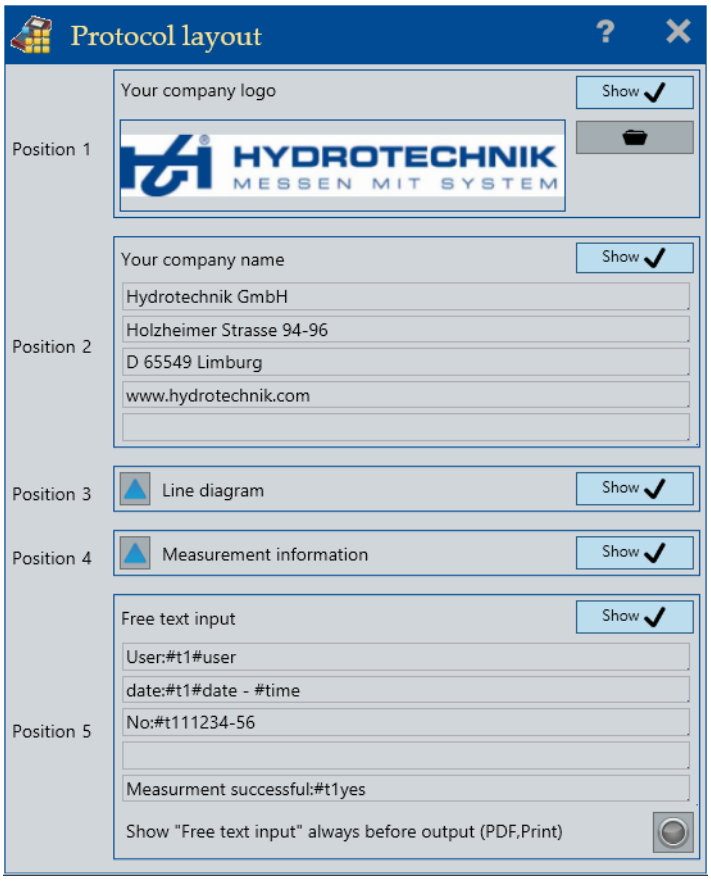
➔ **How to configure the layout of the log**

1 Open the **Settings** dialog .

⇨ **How to open and close the Settings dialog** on page 13

2 On the **General** tab next to the **Log layout** entry, click the **Configure** button.

The **Log layout** dialog is displayed.



3 Click the **Show** button to show or hide an area in the log.

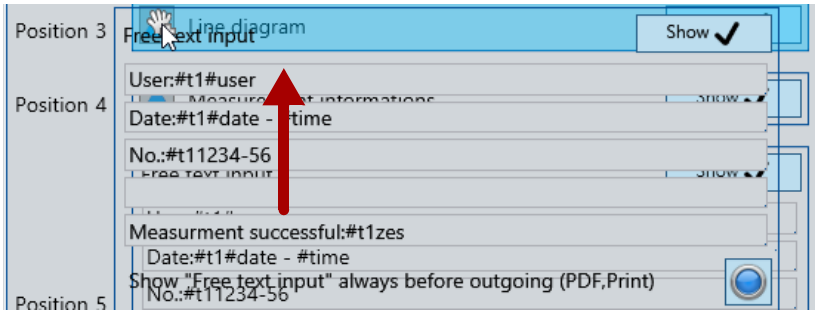
If an area in the log is displayed, then the button is identified with .

ENG

ENG

4 If you want to change the sequence of the areas in the log:

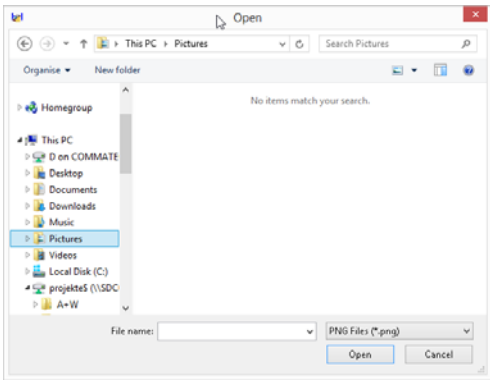
Swap the positions of the areas using drag & drop.



5 If you want to display your company logo in the log:

In the **Your company logo** area, click the **Open** button .

The Windows **Open** dialog is displayed.

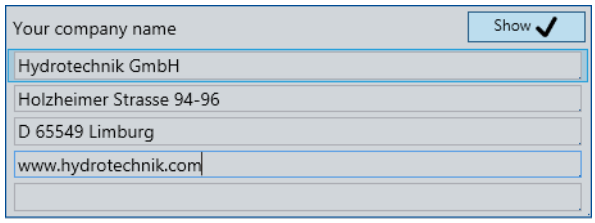


Navigate to the graphics file with your company logo and open the file.

You can use graphics files with the formats PNG or JPG only. The graphic is adapted and centred in the area.

6 If you want to display your company name and address on the log:

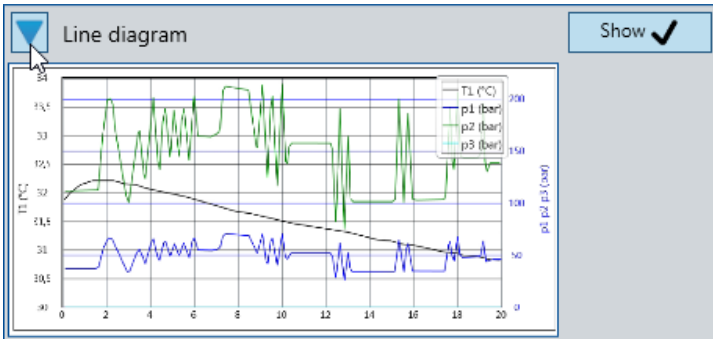
In the **Your company name** area, click in the text field and enter the desired text.

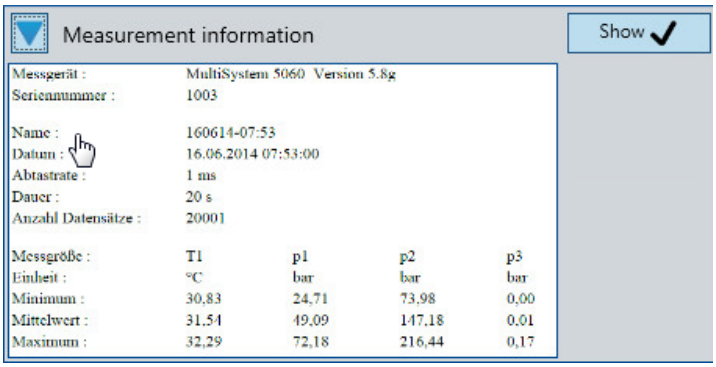


ENG

7 If you want to display the **line graph** and the **Measurement series information** in the log:

Click the **Show example** button to display an example.

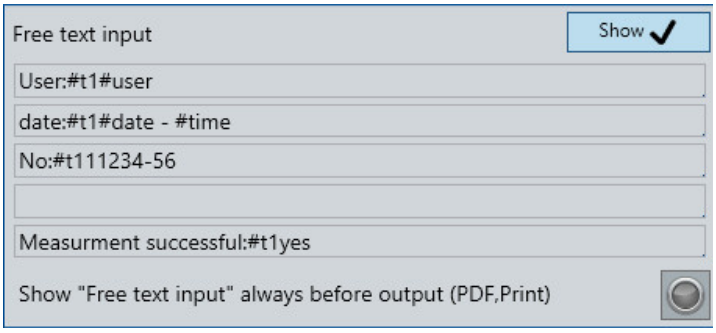




Click the **Show example** button again to hide the example.

8 If you want to display an additional text field in the log:

In the **Free text input** area, click in the text field and enter the desired text.



You can use the following variables:

- **#user** (Windows name of the logged in user)
- **#date** (current date)
- **#time** (current time)
- **#t1** (tab for aligning the texts. Only one tab is supported)

9 If you want the **Free text input** dialog to be displayed before every log generation:

☑ Click the button next to the **Show "Free text input" before each output (PDF, print)** entry.

☐ If the button is deactivated, no dialog for free text input will be shown when the log is generated.

10 Close the **Log layout** dialog ✕.

11 Close the **Settings** dialog ✕.

■

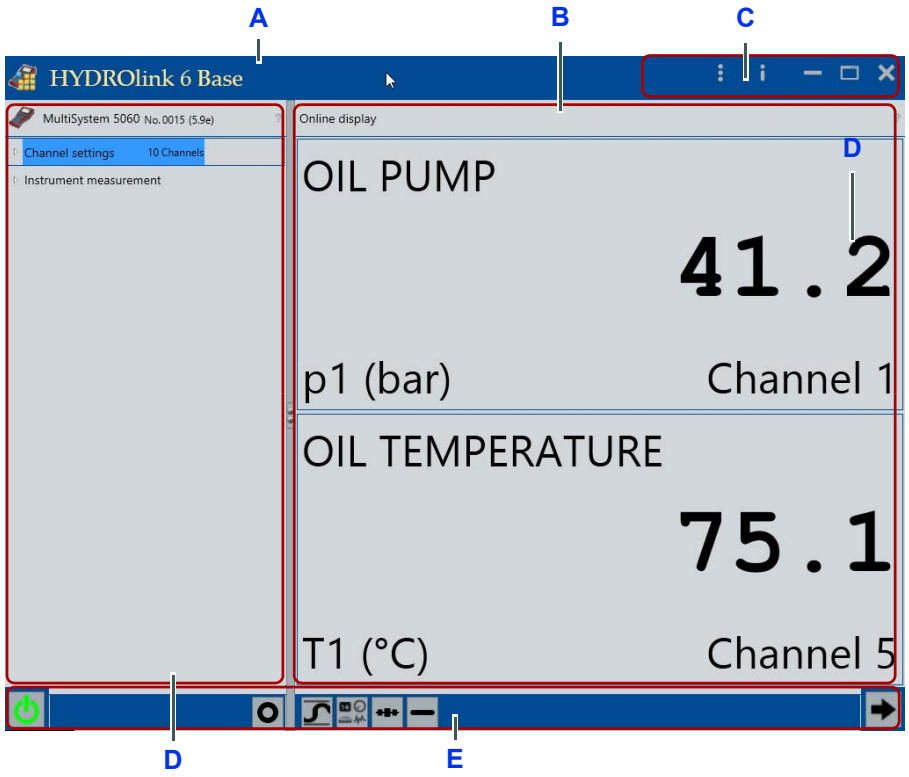
ENG

Software description

This chapter describes the program windows, the dialogs, and the elements of the software.

ENG

Program window



A Voice control
B Viewer
C Information and configuration bar
D Device explorer
E Toolbar

Image: Program window

The program window consists of the following areas:

- **Information and configuration bar**
- **Device explorer**
- **Viewer** with **online display** or **measurement series display**
- **Toolbar**

Information and configuration bar

Display and edit application-specific functions/settings.

⇨ **Information and configuration bar** on page 47

Device explorer

Display and navigate device information.

⇨ **Device explorer** on page 48

Viewer

Display current measurement values of selected channels. Display measurement series as line chart.

Change display type (**online display** - **measurement series display**).

⇨ **Viewer** on page 59

Toolbar

Provide buttons, e.g. Connect to measurement device, record measurement values.

Toolbar for device explorer.

⇨ **Toolbar** on page 56

Toolbar for online display.

⇨ **Toolbar** on page 62

Toolbar for measurement series display.

⇨ **Toolbar** on page 67

Size ratio of the window sections
You can change the size ratio of the window sections by moving the vertical separation bar.
Use the button to reveal or hide the device explorer.

ENG

Information and configuration bar

Use the buttons on the info and configuration bars to display and edit application-specific functions.

ENG

Open the Settings dialog

Opens the **Settings** dialog:

- **General tab** (e.g. language, log layout)
- **Connection settings tab**
- **Advanced tab**

⇨ **Settings dialog (global)** on page 71

Open the info dialog

Opens a list with submenus:

- **About...** (Product information)
- **Request license**

  ⇨ **Licensing HYDROlink6** on page 15

  ⇨ **Licensing dialog** on page 82
- **Activate license**
- **Release special function** (opens a dialog with which customer-specific special functions can be released)

Voice control

Indicates active voice control

⇨ **Voice control** on page 86

Device explorer

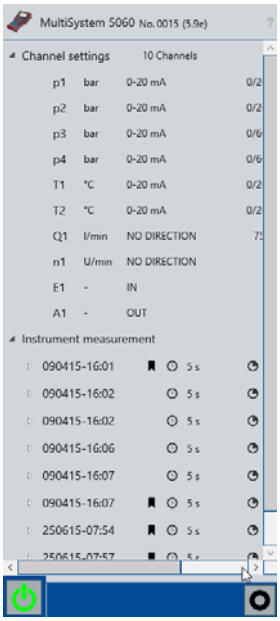


Image: Device explorer

The device explorer shows information about the connected measurement device. If no measurement device is connected, the information from the last connected measurement device will be shown.

The device explorer consists of the following areas:

- **Title bar**
- **Measurement device**
- **Toolbar**

Use the button to reveal or hide the device explorer.

Title bar Display information about the measurement device.

⇨ **Title bar** on page 49

Measurement device Display measurement device settings.

BASE The measurement device area consists of the 2 areas **Channel parameters** and **Measurement series**.

Toolbar Provide buttons for the device explorer.

⇨ **Toolbar** on page 56

Title bar

Device explorer > Title bar

The title bar of the device explorer displays the device information.

The following device information is shown for the connected measurement device:

- Measurement device icon
- Measurement device name (for example, MultiSystem 5060 Plus)
- Measurement device serial number (for example, 2729)
- Firmware version number (for example, 6.8h)
- Warning symbol
- Connection type symbol
- Help symbol
- Messages from the measurement device symbol

Symbols The following symbols can be displayed.

Warning

The warning symbol indicates that the measuring device firmware is not fully supported by HYDROlink6.

You can use the measuring device, however, its functionality may only be limited when used with HYDROlink6. You should perform a firmware update.

Connection type

A connection symbol indicates that a measuring device is connected with HYDROlink6.

The following symbols indicate the connection type.

USB

- MH 2020
- MH 2025
- MH 3020
- MP 2025
- MS 4010
- MS 5060
- MS 5060 *Plus*
- MS 5070
- MS 4070
- MS 8050
- MC 4070
- MC 8050
- MB 3060
- MB 3061
- MB 3065

LAN (TCP/IP network)

- MS 5060 (with additional equipment)
- MS 5060 *Plus* (with additional equipment)
- MS 4070 (with additional equipment)
- MS 5070 (with additional equipment)
- MS 8050 (with additional equipment)
- MC 4070
- MC 8050 (with additional equipment)
- MB 3065

Bluetooth

- MS 5060 *Plus* (with additional equipment)
- MS 5070 (with additional equipment)
- MS 8050 (with additional equipment)
- MC 4070 (with additional equipment)

RS232

- MH 2020
- MP 2025
- MS 4010
- MS 5060
- MS 5060 *Plus*
- MS 8050
- MC 8050

ENG

Help

You can use the Help symbol to call up help for the device explorer.

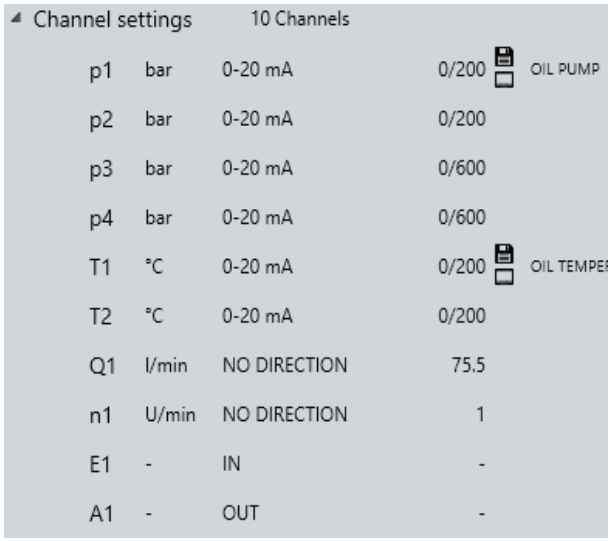
Messages from the measuring device

You can use this symbol to call up the Messages from the measurement device dialog. The number next to the speech bubble indicates the number of messages. This symbol only appear for the measurement devices in the MultiControl xx70 family.

ENG

Channel parameters

Device explorer > Current device configuration > Channel parameters



The **Channel parameters** element displays the available channels of the measurement device.

One sensor can be connected to a channel.

Special channels are displayed if these are supported by the measurement device and set up.

ENG

The following channel parameters are shown for the connected sensor:

- Measurement variable (example: p1)
- Unit (example: bar)
- Signal type (example: 0-20 mA)
- Measurement range or calibration value (example: 0.0-200.0)
- Symbols
- Name (example: OIL PUMP)

  The name of the channel is only displayed if it is configured in the measurement device.

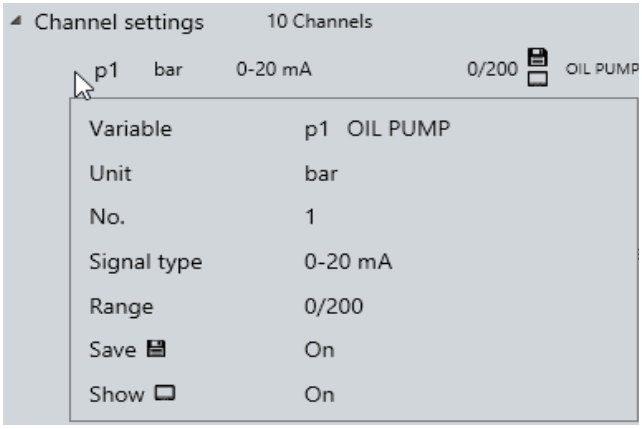
The following symbols can be displayed.

Symbol	Meaning
	Channel is active for the recording
	Channel is active for the online display

You can open and close the **Channel parameters** element with the arrow symbols  and  .

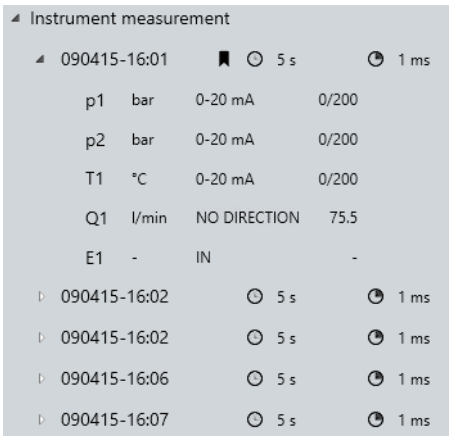
If you use the mouse to drag a channel onto the **Online display**, the current channel value is displayed in the **Online display**.

Display of a tooltip for each channel with detailed description of the settings.



Device measurement series

Device explorer > Measurement series > Device measurement series



The **Device measurement series** element shows all measurement series stored in the device.

You can open and close the **Device measurement series** element with the arrow symbols and .

If you use the mouse to drag a device measurement series into the **Measurement series display**, the measurement series is transferred from the measurement device and saved on the PC and displayed in the measurement series display.

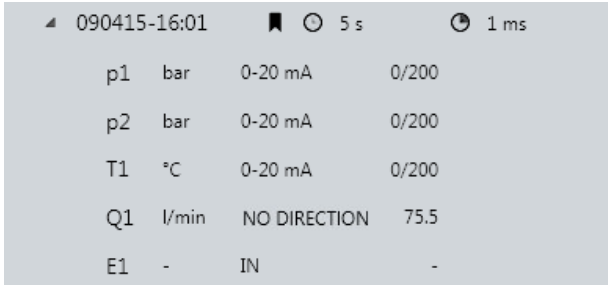
The following information is shown for each device measurement series:

- Name of the device measurement series (example: 090415-16:01)
- shows that one device measurement series is already saved on the computer.

  This measurement series is also available offline and can be displayed without an measurement device connected.
- displays the duration of the device measurement series (example: 5 s)
- displays the sampling rate used (example: 1 ms)

Channel parameters of a device measurement series

If you click on the arrow symbol , the channel parameters for this device measurement series will be shown. Only the channel parameters of the recorded channel are shown.

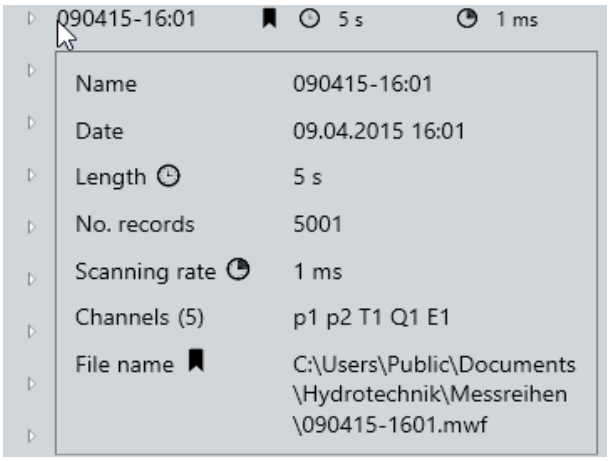


The following channel parameters are shown for the recorded channel:

- Measurement variable (example: p1, p2, T1)
- Unit (example: bar, °C)
- Signal type (example: 0-20 mA)
- Value range or parameter (example: 0/200 bar)

Tooltip

A tooltip will be displayed if you hover the mouse pointer over a device measurement series or with touch operation, if you hold your finger on the device measurement series for a second.



The tooltip displays the following information:

- **Name** (example: 090415-16:01)
- **Date** (example: 09.04.2015 16:01)
- **Duration** (example: 5 s)
- **Number of data records** (example: 5001)
- **Sampling rate** (example: 1 ms)
- **Channels** (number) and channel name (example: (4) p1 p2 T1 Q1)
- **File name** and path are only displayed if the measurement series is saved on the PC.

  This measurement series is also available offline and can be displayed without an measurement device connected.

The following symbols can be displayed.

Symbol	Meaning
	Duration of the measurement
	Sampling rate

Measurement series has been downloaded from measurement device.

Measurement series is available offline.

An error occurred when loading the measurement series.

Details are displayed in the tooltip.

Measurement series does not contain any data records.

ENG

Toolbar

Device explorer > Toolbar

Use the toolbar to connect your measurement device with HYDROlink6.

Use the toolbar to start the recording of a measurement series.

Depending on which elements are active in the device explorer, the **Toolbar** includes the following buttons.

Button	Function
	Establish connection to or disconnect from the measurement device.
	Start storage on the measurement device.
	End storage on the measurement device.

Connect

Establishes the connection to the measurement device or disconnects it. HYDROlink6 automatically detects the type of connection (USB, RS232 or LAN).

The button or connection can have the following states.

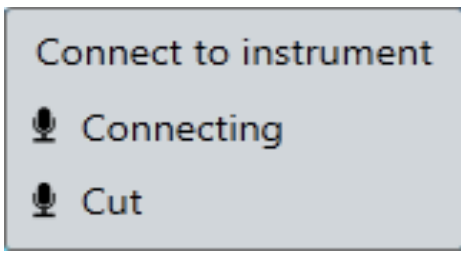
Connect to measurement device

Establishes connection to the measurement device.

There is no connection.

Voice command CONNECT

- Symbol color - black
- Symbol rotates every five seconds
- Tooltip: Connect to measurement device



ENG

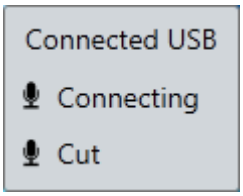
Connected

Disconnects the connection to the measurement device.

There is no connection.

Voice command DISCONNECT

- Symbol color - green
- Symbol does not rotate
- Tooltip: Connected USB



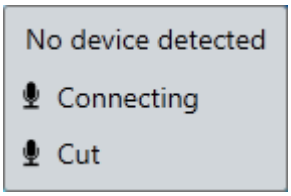
No measurement device detected

Attempts to establish a connection to the measurement device again.

A connection failed.

Voice command CONNECT

- Symbol color - red
- Symbol does not rotate
- Tooltip: Information about the connection error is displayed (example: No measurement device detected)



Click the button again to disconnect

HYDROlink6 attempts to establish a connection to the measurement device.

By clicking the button, the connection attempt is canceled.

Start recording

Starts the recording of a measurement series.

Voice command RECORD

The button is only active if a measurement device is connected.

If on the **Settings** dialog **Specify folder and file name automatically** is selected, the recording starts immediately.

If automatic saving is not specified in the **Settings**, the Windows **Save as** dialog will be displayed. You must specify a destination and can change the file name.

⇨ **Settings dialog (global)** on page 71
⇨ **Recording a measurement** on page 36

The storage parameters of the measurement device will be used for the recording.

ENG

Recording

Only the channels for which the recording is activated will be recorded. The channels are indicated with the symbol in the channel parameters.

The maximum duration of the recording with HYDROlink6 is limited by your PC. During the recording by the measurement device, the duration is limited by the measurement device. Thus, you can usually perform a significantly more comprehensive recording with HYDROlink6.

A progress bar indicates the status of the recording and the time of the recoding thus far.

BASE An online recording of measurement data is started. The measurement data is transferred directly to the PC. A progress bar indicates the status of the recording and the time of the recoding thus far.

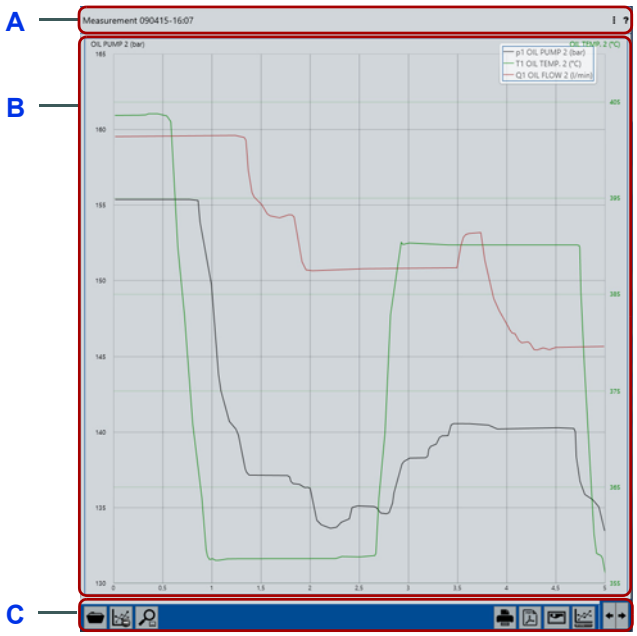
Stop recording

Ends the online recording or the active storage of data.

Voice command STOP

The button is only visible if an online recording is active.

Viewer



A Title bar
B Display
C Toolbar

Image: Viewer

The viewer shows the measurement values of the selected channel or measurement series recorded.

The viewer can be switched between the following displays:

Measurement series display

The viewer consists of the following areas:

- **Title bar**
- **Display**
- **Toolbar**

Title bar Display information about the display type or measurement series.

Display With the button, you can switch between the following display types:

- Online display
  ⇨ **Online display** on page 60
- Measurement series display
  ⇨ **Measurement series display** on page 65

Toolbar Provides buttons for the viewer.

Buttons for the online display

⇨ **Toolbar** on page 62

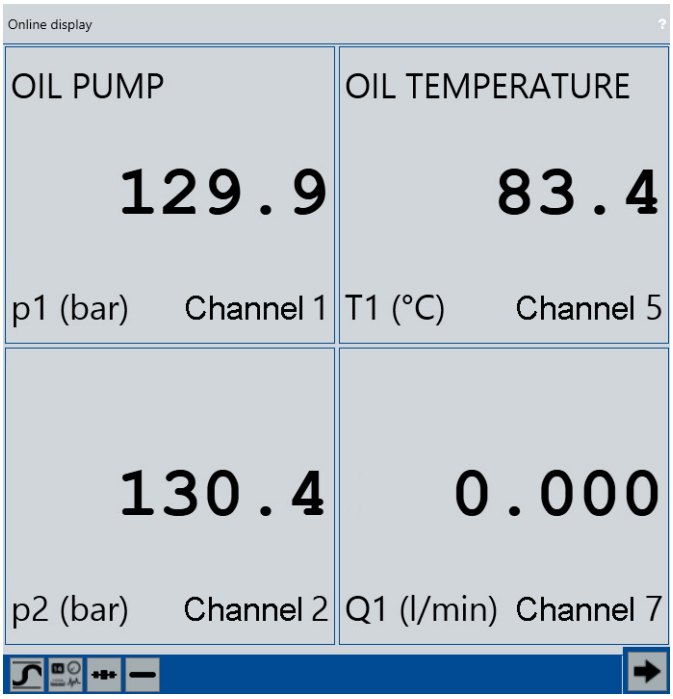
Buttons for the measurement series display

⇨ **Toolbar** on page 67

Online display

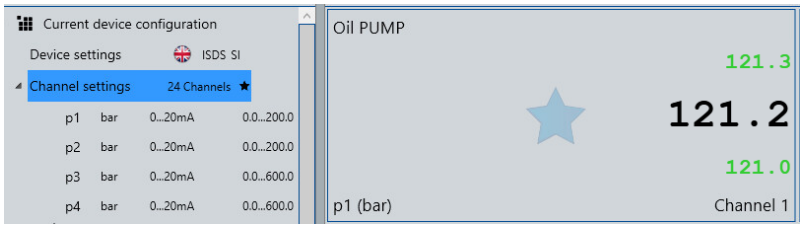
ENG

*Viewer > **Change the display type** button > Online display*



The **Online display** displays the channels of the connected measurement device.

If the setting of a channel has been changed, then this is indicated by an asterisk ★ next to the channel in the device explorer and in the channel display.



The settings must be synchronized with the measurement device.

With the button, you can switch between **Online display** and **Measurement series display**.

⇨ **Using the online display** on page 24

⇨ **Using the Measurement display** on page 30.

Title bar

The following symbols can be displayed.

Help

Opens the help.

Online values are received

Indicates that measurement values are being received from the measurement device.

During loading and sending of parameters and measurement series, no measurement values are recorded.

Configure online displays

*Viewer > **Change the display type** button > Online display*

You can configure the online display as follows:

- **Display channels**
- **Add/delete channels**
- **Arrange channels**
- **Change display**

For the **MultiHandy 2020, MultiHandy 2025,** and **MultiHandy 3020** measurement devices, all channels are displayed automatically.

Display channels

The channels are displayed for which the channel parameter **Display on measurement device** is selected.

Add/delete channels

You can add channels to or remove them from the online display.

Channels can be dragged into the online display from the device explorer using drag & drop.

⇨ **Selecting a channel for the online display** on page 25

Drag & drop function
The drag & drop function is not possible for measurement devices in the *MultiHandy* product family.

Channels can be removed from the online display using the  button.

⇨ **Deleting channels from the online display** on page 27

Arrange channels

You can arrange the channels as you wish.

You can drag channels anywhere with the mouse.

⇨ **Arranging channels in the online display** on page 26

Change display

With the buttons on the toolbar, you can change the appearance of the display or the display style.

⇨ **Toolbar** on page 62

Toolbar

*Viewer > **Change the display type** button > Online display> Toolbar*

To apply the functions of the toolbar to a specific channel, mark the channel with a mouse-click.

Marked channels
Marked channels have a blue border.

The toolbar contains the following buttons.

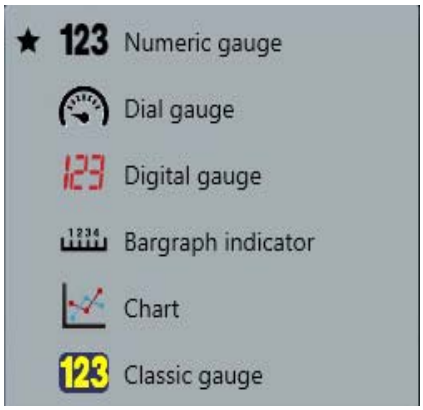
Switching display of min/max values on or off

Switches the min/max display on or off.

Voice command MINMAX

Change the display style of the selected channels

Opens the selection dialog on which you can change the display style of the selected channel.



⇨ **Display style** on page 63

Arrangement

Changes the arrangement of the channel display from horizontal to vertical and vice versa.

Voice command: ALIGNMENT

ENG

Deleting the marked display devices

Removes the marked channel from the display.

The button is not shown for measuring devices from the product family *MultiHandy*.

Zoom tool

Activates the zoom tool.

Interrupting or continuing the refreshing of the display of the line graph

Stops the line graph or lets it continue.

If you stop the line graph, you can display different areas with the slider. You can also display details with the zoom tool.

Only visible if a line graph is displayed in the **online** display.

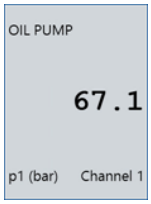
Changing the display type

Switches between **Online** display and **Measurement series display**.

Voice command SWITCH

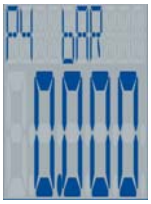
Display style

A variety of display styles are available for the channel display.



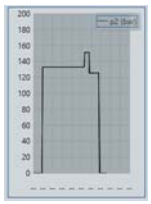
Numeric gauge

Analog gauge



Segment gauge

Linear gauge



Line graph

Measurement device display

If a channel is added to the **Online display**, the default display style will be used for the channel view.

The default display style is marked with an asterisk★.

Use the button to change the display style for marked channel displays.

⇨ **Changing and scaling the display style** on page 29

Analog gauge Scaling possible.

⇨ **Scaling dialog** on page 84

Linear gauge Scaling possible.

⇨ **Scaling dialog** on page 84

Line graph You can change the appearance of the line and scaling of the axes under *Device explorer > Channel parameters > Select channel > Details >* **Color / Symbol**.

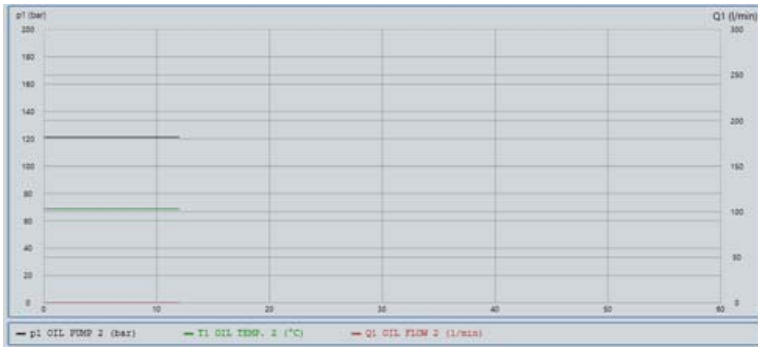
The last 60 seconds are always displayed.

Scaling possible.

⇨ **Scaling dialog** on page 84

Line graph

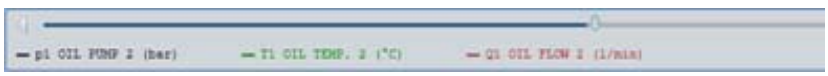
*Viewer > **Change the display type** button > Online display> Change the appearance of the online display*



In the **Online display,** you can display a line graph below the channel display or switch the **Online display** entirely to the line graph.

The line graph displays all online channels. You can change the appearance of the line and scaling of the axes under *Device explorer > Channel parameters > Select channel > Details >* **Color / Symbol**.

The last 60 seconds are always displayed. You can stop the line graph or let it continue.

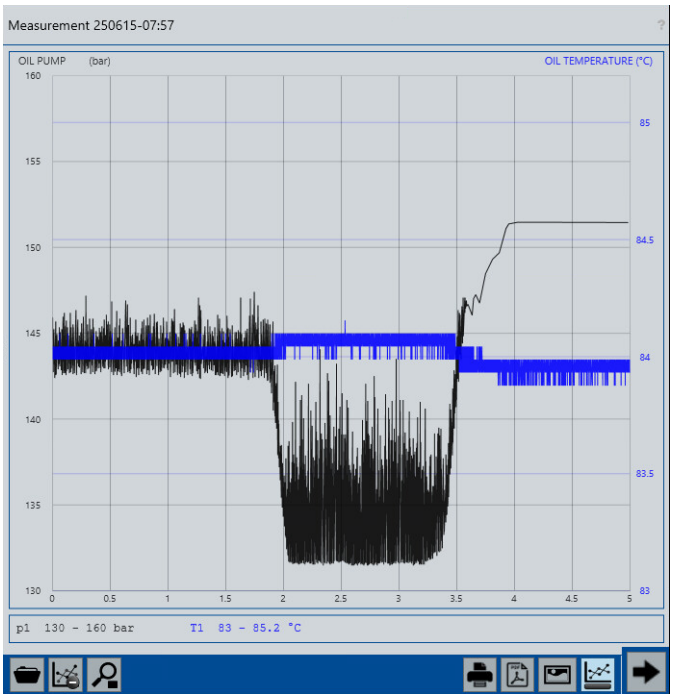


If you stop the line graph, you can display different areas with the slider. You can also display details with the zoom tool.

The observation period is minimum 1200 data records. Therefore, the time period depends on the display rate set. At 1 second, it is 20 minutes; at 0.1 seconds, it is at least 2 minutes.

Measurement series display

*Viewer > **Change the display type** button > Measurement series display*



The **Measurement series display** displays measurement series (MWF files) as line graphs.

Device or online measurement series can be displayed.

Device measurement series can be displayed if a measurement device is connected or if the measurement series is marked with a little flag .

⇨ **Saving and displaying measurement series from the measurement device** on page 30

Any measurement series (MFW files) can be opened for display.

⇨ **How to open a saved measurement series** on page 31

The measurement series name is displayed in the title bar. A tooltip displays the details of the measurement series.

With the button, you can switch between **Online display** and **Measurement series display**.

⇨ **Using the online display** on page 24
⇨ **Using the Measurement display** on page 30.

ENG

Title bar

Displays the name of the measurement series.

The following symbols can be displayed.

Help

Opens the help.

Open the Settings dialog

Opens the **Settings** dialog.

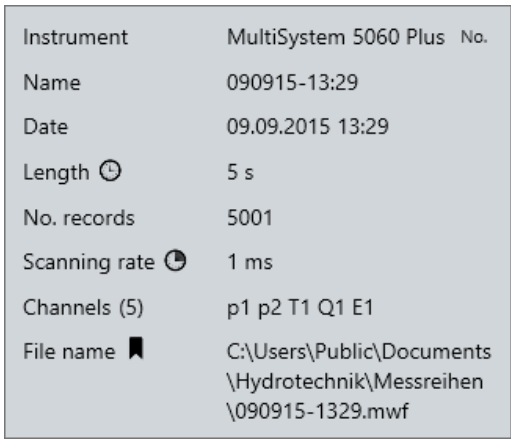
Online values are received

Indicates that measurement values are being received from the measurement device.

During loading and sending of parameters and measurement series, no measurement values are recorded.

Tooltip

A tooltip will be displayed if you hover the mouse pointer over measurement name or with touch operation, if you hold your finger on the measurement name for a second.



The tooltip displays the following parameters:

- **Measurement device**
- **Name**
- **Date**
- **Duration**
- **Number of data records**
- **Sampling rate**
- **Channels**
- **File name**

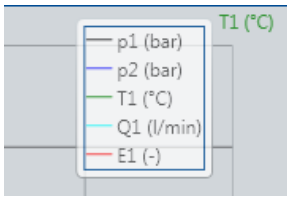
The following symbols can be displayed in the tooltip.

⇨ **Tooltip** on page 54

Configure measurement series display

The measurement series are displayed are as line graphs.

The horizontal axis corresponds to the time. The vertical axis corresponds to the measurement variable. The measured values are shown as lines. The different channels are indicated by different colors.



The legend shows which channel is shown with which color in the diagram. The legend can be in the upper right or below the diagram.

⇨ **Changing the position of the legend** on page 32

The left and right axis show the value scale for the channels. Channels with the same unit are summarised on one axis and thus scaled equally.

You can configure the measurement series display.

⇨ **Changing the position of the legend** on page 32
⇨ **Changing the axis labeling** on page 33
⇨ **Enlarging the line graph** on page 34
⇨ **Clearing the measurement series display** on page 35

Toolbar

*Viewer > **Change the display type** button > Measurement series display > Toolbar*

The toolbar contains the following buttons.

Search for other measurement series data (MWF)

Shows the Windows **Open** dialog.

Opens a measurement from a data medium (hard drive of the PC, USB stick). Measurement series must have the MWF file format.

Clears the measurement series display

Clears the line graph or the measurement series display.

Open or close the zoom tool

Shows or hides the zoom menu.

The zoom menu is shown in the bottom right of the display.

⇨ **Enlarging the line graph** on page 34
⇨ **Zoom menu** on page 69

Print line graph

Prints the log of the current measurement.

If the free text input is activated in the settings, the **Free text input** dialog will be displayed first.

⇨ **Generating a log** on page 38
⇨ **Log layout dialog** on page 78
⇨ **Free text input dialog** on page 81

A preview of the log will be shown in the Windows **WindowPrintPreview** dialog before printing.

Voice command PRINT

Saves the line graph as a PDF file

Saves the log as a PDF file.

If the free text input is activated in the settings, the **Free text input** dialog will be displayed first.

⇨ **Generating a log** on page 38
⇨ **Log layout dialog** on page 78
⇨ **Free text input dialog** on page 81

The Windows **Save as** dialog is displayed. The log is opened after saving.

Voice command SHOW

Saves the line graph as an image file

Saves the line graph as an image file.

The Windows **Save as** dialog is displayed.

The following file formats are possible:

- PNG
- JPG
- BMP
- GIF

Voice command GRAPHIC

ENG

Changing the position of the legend down or to the right

Changes the position of the legend.

Possible positions:

- Top right
- Bottom

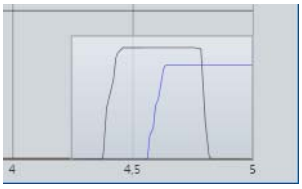
Changing the display type

Switches between **Online** display and **Measurement series display**.

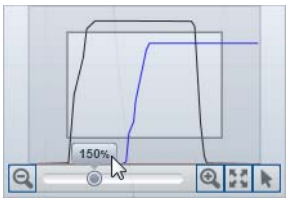
Voice command SWITCH

Zoom menu

The zoom menu is shown or hidden with the **Open or close the zoom tool** button.



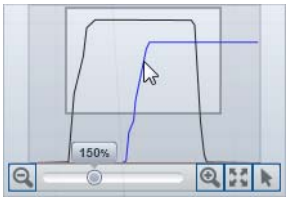
The zoom menu is shown in the bottom right in the measurement diagram as transparent preview.



If you hover the mouse over the preview of the zoom menu, the zoom menu is activated. You can then enlarge the measurement series display with the buttons.

The following functions are available for zooming:

- Zoom in step by step with the button.
- Zoom in or out continuously (slider)
- Zoom out step by step with the button.
- Reset zoom to 100% with the button.



You can move the section of the zoomed area freely with the mouse.

Use the button to change the behavior of the zoom. By default, you select a zoom area with the mouse (touch). You can switch this off here.

Dialogs

Some settings are made on dialogs.

Settings dialog (global)

Info and configuration bar > Open settings dialog

The **Settings** dialog is opened using the **Open Settings dialog** button.

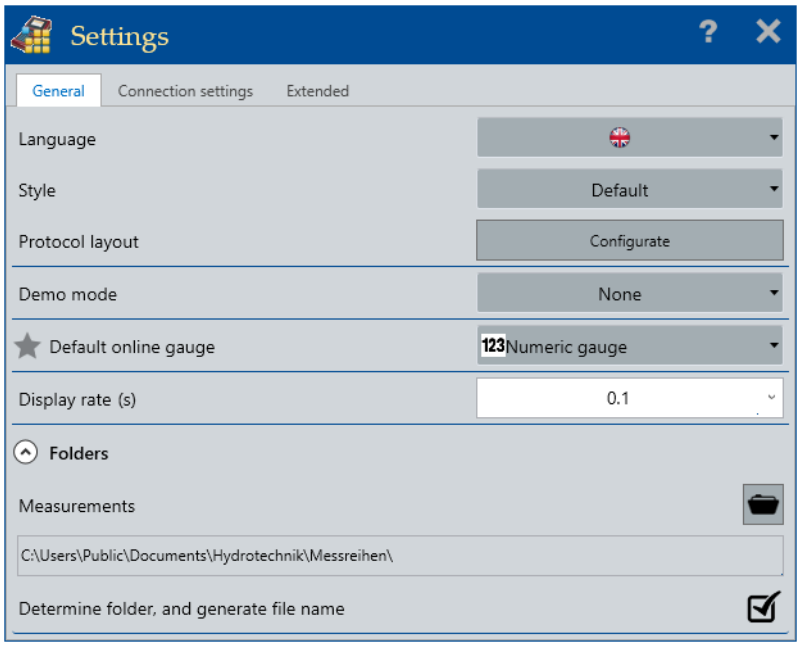
⇨ **Open the Settings dialog** on page 47

The **Settings** dialog has three tabs:

- **General tab**
- **Connection settings tab**
- **Advanced tab**

General tab

Info and configuration bar > Open settings dialog > General



The **General** tab offers the following settings.

Language Changes the user interface language.

The new language will be applied the next time the application is started.

Color style Changes the user interface colors.

Demo mode Activates the demo mode.

The demo mode can be activated for different measuring devices and application editions. It shows the functions of other program editions (for example ADVANCED) and simulates a measurement device (example: MultiSystem 5060).

The button is only active when no measurement device is connected.

If you select the **User-defined** demo mode, then you can activate the **Simulator** option.

ENG

Simulator

Shows the **Simulator** button on the info and configuration bar.

Shows the **Simulator** button on the info and configuration bar.

Simulator

The **Simulator** button opens the **Simulator** dialog. If you establish a connection using this button, you can set the measurement values for the channel in question using the pointer on the Simulator dialog.

⇨ **Simulator dialog** on page 77

Log layout Opens the **Log layout** dialog.

⇨ **Log layout dialog** on page 78

Default online gauge Defines which display style is standard. This display style will be used when a channel is dragged into the online display.

The display style can be changed in the online display.

⇨ **Display style** on page 63

Display rate (s) Defines at which time interval (seconds) the online display should be updated.

The measurement and transfer rate depends on the measurement device connected. The display rate only defines at what time intervals the online display is updated.

The display rate is entered as numeric value or selected from the selection menu.

Directories

The directories area can be expanded and collapsed.

Measurement series Shows the current standard folder for saving measurement series.

If the **Specify folder and assign file name automatically** function is activated, measurement series will be saved to this folder. If the function is not activated, this folder is suggested as a storage destination.

The **Search** button opens the Windows **Search folder** dialog and specifies a new default folder.

⇨ See **Measurement series display** on page 65

Specify folder and assign file name automatically

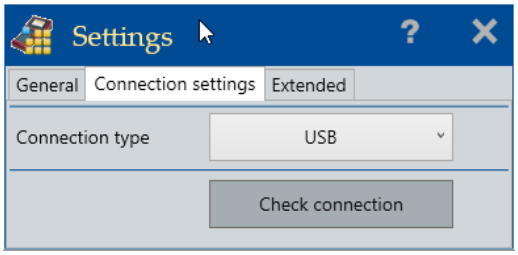
Specifies the saving of measurement series without querying the user.

- The default folder is used as destination.
- The file name is generated automatically from the time stamp of the measurement series.

If the function is deactivated, the Windows **Save as** dialog is displayed and the user can select the destination and file name at will.

Connection settings tab

Info and configuration bar > Open settings dialog > Connection settings



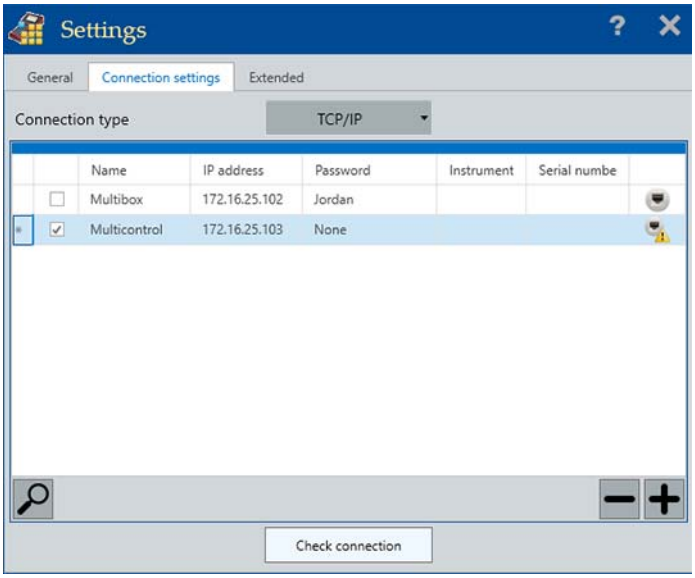
The **Connection settings** tab shows the current connection type.

USB and R323 are established automatically and do not have to be configured.

The **Check connection** button is inactive if there is a connection to the measurement device.

ENG

TCP/IP connection



TCP/IP connections to measuring devices must be configured. Multiple TCP/IP connections can be created.

- **Name** Name for the TCP/IP connection. Used for differentiating between individual TCP/IP connections.
- **TCP/IP address** TCP/IP address of the measurement device. Only Ipv4 addresses can be used.
- **Password** the connection password.

The TCP/IP address and the password must be configured on the measurement device.

Adding a LAN connection

Adds a new TCP/IP connection.

Deleting this LAN connection from the list

Deletes the selected TCP/IP connection from the list and from the PC.

Search for a measurement device

Searches for a measurement device within a network. If a new measurement device is found, it appears as new entry in the list.

The measurement device must be within the same network as the HYDROlink6. Restrictions within a network can distort the search result.

ENG

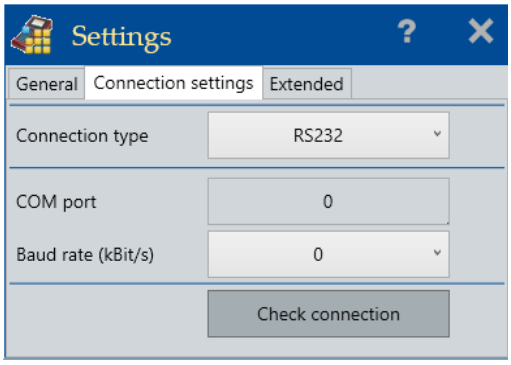
Testing the connection

With the **Test connection** button, an attempt is made to establish a connection with the marked entry in the list. The status of the connection establishment is indicated in the list with a symbol:

A connection was established.

No connection could be established.

Connection type RS232

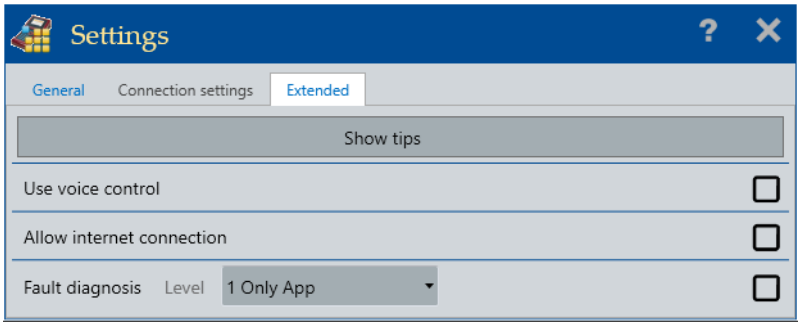


RS232 connections to the measurement devices can be configured.

- **COM port** the number of the COM connection on the PC.
- **Baudrate (kbit/s)** Baud rate of the connection.

Advanced tab

Info and configuration bar > Open settings dialog > Advanced



The **Advanced** tab offers the following settings:

Show tips All tips of the user interface are shown again.

Using voice commands

Allows operation via voice commands.

The symbol is displayed on the title bar.

To use voice commands, the computer must have a microphone and loud-speaker. If HYDROlink6 finds no microphone or speaker, the ⚠ symbol and a corresponding tool tip are displayed.

Voice commands are not used.

Allow Internet connection

Allows a connection to the Internet.

Searches on the HYDROTECHNIK server for updates for HYDROlink6 and the connected measurement device.

The computer must have an Internet connection and the firewall must allow the connection to HYDROTECHNIK.

Does not allow a connection to the Internet.

Recalculate measurement range after unit change

This option is only available if a measurement device of the **xx70** family is connected.

In the channel parameters, the values for the measurement range are adjusted with change of the unit.

Example: If the unit is changed from bar to mbar, 200 becomes 200000 (200 bar to 200000 mbar).

In the channel parameters, the values for the measurement range are not adjusted with change of the unit.

Live monitor reacts to key press

This option is only available if a measurement device of the **xx70** family is connected.

This option serves diagnostic purposes and should be switched on only on the advice of HYDROTECHNIK.

The following keys are supported:

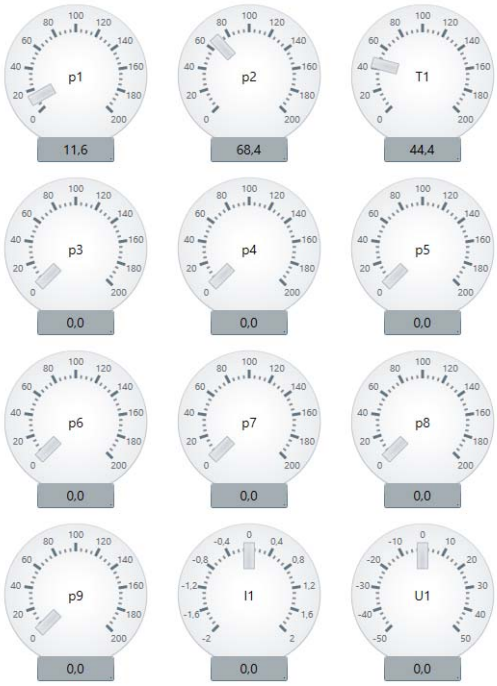
- Function keys F1-F5
- Arrow keys
- Enter key
- Esc key

Error diagnosis Only activate if requested by HYDROTECHNIK.

ENG

Simulator dialog

Information and configuration bar > Simulator

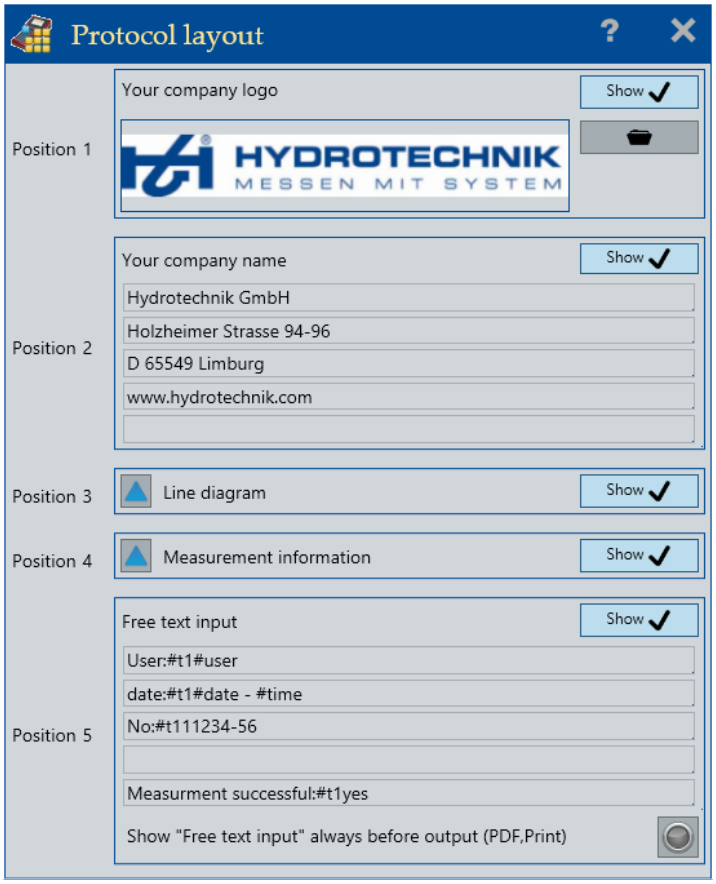


On the **Simulator** dialog, you can set the measurement values for the channels. The dialog is displayed if the **User-defined** demo mode is used and the **Simulator** option is activated. Then the dialog can be called up with the **Simulator** button on the information and configuration bar.

ENG

Log layout dialog

Information and configuration bar > Open settings dialog > General > Log layout > Configure



The **Log layout** dialog displays settings for the layout of the log. These settings are used when a log is printed or saved as a PDF file.

⇨ **Generating a log** on page 38

The log is divided into five areas, position 1 to position 5. You can change the sequence of the areas using drag & drop.

⇨ **Configuring the log layout** on page 41

The **Show** button shows or hides an area in the log. If an area is shown, the button has a green checkmark.

The **Show example** button shows or hides a preview for the **Line graph** and **Measurement series information** areas.

Your company logo

You can add a company logo to the log. The logo must be a graphics file with the PNG or JPG file format.

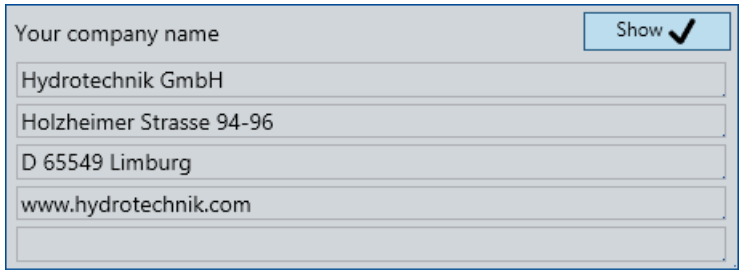
The button [ ] displays the Windows dialog **Open** for opening a graphics file.

ENG

Your company name

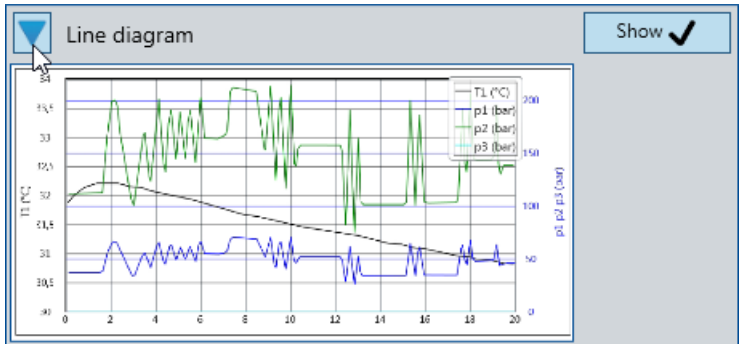
The company name and additional text (addresses, for example) can be inserted into the log.

A maximum of 5 lines with 80 characters apiece is possible.



Line graph

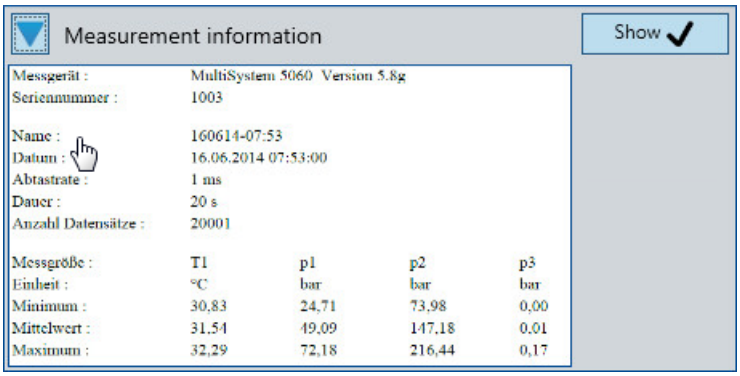
The line graph of the measurement series can be added to the log.



ENG

Measurement series information

The measurement series information can be added to the log.

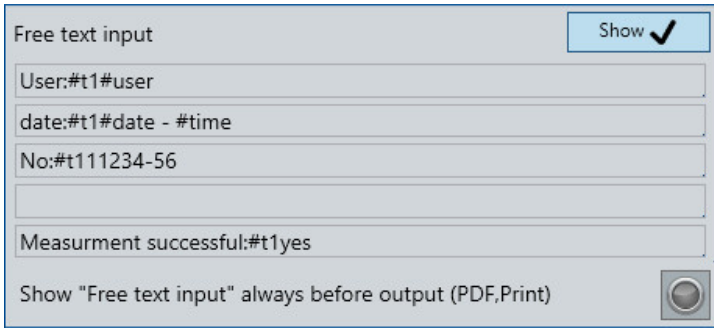


The following information is shown in the log:

- Measurement device (model and firmware version)
- Serial number of the measurement device
- Measurement series name
- Date and time of the measurement series
- Sampling rate
- Duration
- Number of data records
- For each channel
  - Measurement variable
  - Unit
  - Minimum
  - Average
  - Maximum

Free text input

You can add any text to the log.



The following variables can be used:

- **#user** (Windows name of the logged-in user)
- **#date** (current date)
- **#time** (current time)
- **#t1** (tab for aligning the texts. Only one tab is supported)

A maximum of 5 lines with 80 characters apiece is possible.

The button specifies whether the **Free text input** can be edited before generating a log. If the button is active, the **Free text input** dialog is opened and the text can be edited during the generation of the log.

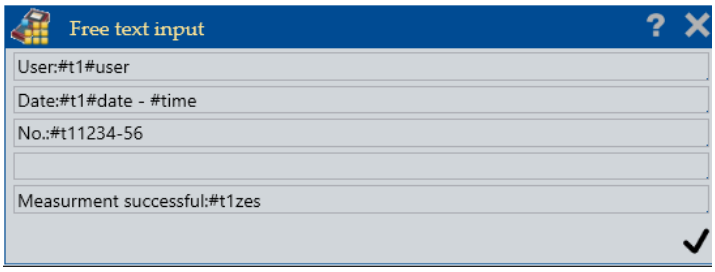
⇨ **Free text input dialog** on page 81

ENG

Free text input dialog

Measurement series display > Print line graph

Measurement series display > Saves the line graph as a PDF file



The **Free text input** dialog is shown when a log is generated and the free text input option is activated in the settings.

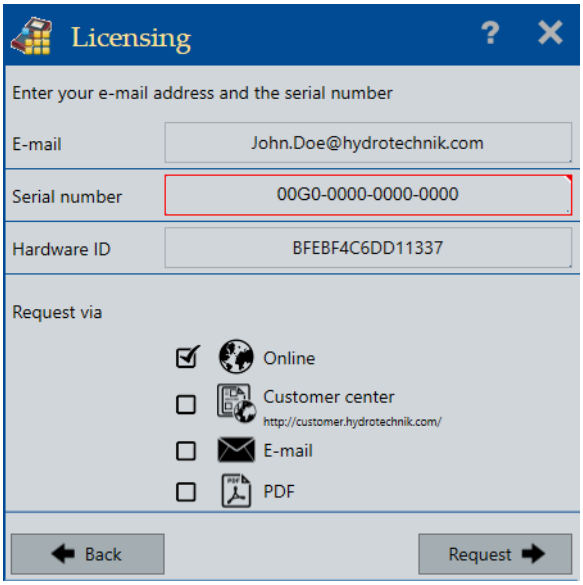
⇨ **Generating a log** on page 38
⇨ **Print line graph** on page 68
⇨ **Saves the line graph as a PDF file** on page 68
⇨ **Free text input** on page 80

The entered text is shown in the log.

A maximum of 5 lines with 80 characters apiece is possible.

Licensing dialog

Information and configuration bar > Request license



On the **Licensing** dialog, you enter the data required for requesting a license.

After installation, the **BASE** version is available. The **ADVANCED** and **PROFESSIONAL** versions must be licensed.

Licensing is done in five steps:

1. Purchase desired version
2. Register
3. Request license
4. Receive license file
5. Activate license

When purchasing HYDROlink6, you select the desired version. With the purchase, you receive a serial number for the selected version. After you have installed HYDROlink6, request a license.

⇨ **Licensing HYDROlink6** on page 15

E-mail area

Enter the e-mail address with which you are registered in the HYDROTECHNIK customer center.

Serial number area

You receive the serial number in the form of a certificate when you have purchased a ADVANCED or PROFESSIONAL version. In the serial number, there are no **Os**; any characters that look like this are always the number zero (**0**).

Enter this serial number in the **Serial number** area.

The serial number alone cannot activate the license. You must first request a license.

The serial number is used together with the hardware ID to generate a unique license for your installation.

Hardware ID area

The **Hardware ID** area displays an automatically generated, unique identification number for your system.

The hardware ID number is used together with the serial number to generate a unique license for your installation.

You can enter a **License key**.

License request method area

In the **License request method** area, there are various ways you can sent the license request to HYDROTECHNIK.

- **Online**

  This is the simplest method since the license request and activation are performed automatically in one step. This option can be blocked by firewall settings. In this case, contact your network administrator.

- **Customer center**

  You will be forwarded to the HYDROTECHNIK customer center. After you have logged in, the licensing page opens. The license file and license key will be created automatically and sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

- **E-mail**

  Your license request is sent to the HYDROTECHNIK customer center via e-mail. The license key is generated manually by the customer center employees. The license file and license key will be sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

- **PDF**

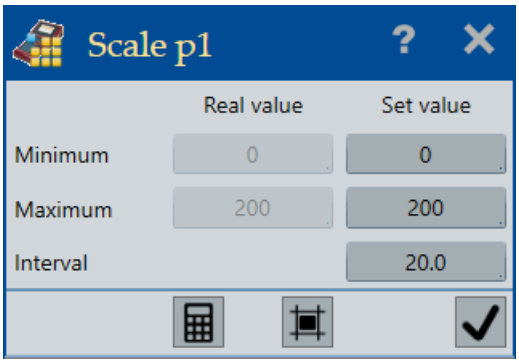
  Your license request is generated as PDF. You can send it via e-mail or post to the HYDROTECHNIK customer center. The address is included in the PDF. The license key is generated manually by the customer center employees. The license file and license key will be sent to you via e-mail. You use the license file and the license key to activate the license manually in the application.

In the customer center, you can check how many free licenses are present.

ENG

Scaling dialog

Online display > Analog gauge > Open settings dialog
Online display > Linear gauge > Open settings dialog
Online display > Line graph > Open settings dialog
Online display > Bar graph > Open settings dialog



The following display styles can be scaled:

- Analog gauge
- Linear gauge
- Line graph
- Bar graph

If the display style of a marked channel display can be scaled, the button for scaling will be shown in the top right of the channel display. The button opens the **Scaling** dialog.

The dialog shows the current actual values (**Minimum**, **Maximum**).

Set values configure the scale of the channel display. Enter the desired starting value of the scale in the **Minimum** field. Specify the desired end value of the scale in the **Maximum** field.

Enter the desired value for the scale intervals in the **Interval** field.

Use the **Calculate** button to automatically generate the fields Minimum, Maximum, and Interval based on the actual values.

No calculation takes place if no measured values are sent from the measuring device.

Use the **Refresh display** button to take over the scaling values for the channel display temporarily.

Use the button to take over the scaling values for the channel display permanently.

ENG

Voice control

A Voice control

Image: Voice control

HYDROlink6 can be partially controlled using voice commands. For voice control, no dialogs are shown that require input using the mouse or keyboard.

The voice commands are described in this manual and are shown as follows:

VOICE COMMAND

The language depends on the operating system and is independent of the language set in HYDROlink6. Thus, e.g. only German is understood as language with a German operating system.

Only German and English are supported.

The voice control must be activated in the settings. If voice control is activated, the symbol is displayed in the title bar.

⇨ **Using voice commands** on page 76

So that voice recognition works, you have to perform the Windows voice recognition exercises: *Windows help > Voice recognition, Windows help > Language-learning program.*

Voice command German	Voice command English	Symbol	Button/function
CONNECT	CONNECTING		Establishes connection to the measurement device
DISCONNECT	CUT		Disconnects the connection to the measurement device
RECORDING	RECORDING		Starts the recording of a measurement series The file name is assigned automatically.
STOP	STOP		Ends the recording of a measurement series The measurement series is displayed automatically.
SWITCH	CHANGING		Switches between the display types online display/device display/measurement series display
CLOSE	ENDING		Closes the application
PRINT	PRINTING		Prints the current measurement series display It is printed directly. The **Display this dialog before each output** option is ignored.
SHOW	SHOWING		Creates a PDF file The file name is generated automatically. The **Display this dialog before each output** option is ignored.
GRAPH	PICTURE		Creates a PNG file The file name is generated automatically.
MINMAX	MINMAX		Switches the min/max display on or off

Table: Voice commands

HYDROTECHNIK