Windows® software maXYmos PC (Basic and Plus)

1. Installing and starting the program

maXYmos PC is a program that can be run directly. There is no installation process, administrator rights are not required. The program can also be started from the USB stick.

1. Copy maXYmos.exe into a prepared folder, e.g. F:\maXYmos PC\
2. If you create a subfolder F:\maXYmos PC\Data in the same folder, that subfolder will be used automatically for storing data.
3. Double-clicking the exe file opens the main menu of the "Geräte" tab. Buttons and information boxes remain inactive until a device is added to the device list and selected.
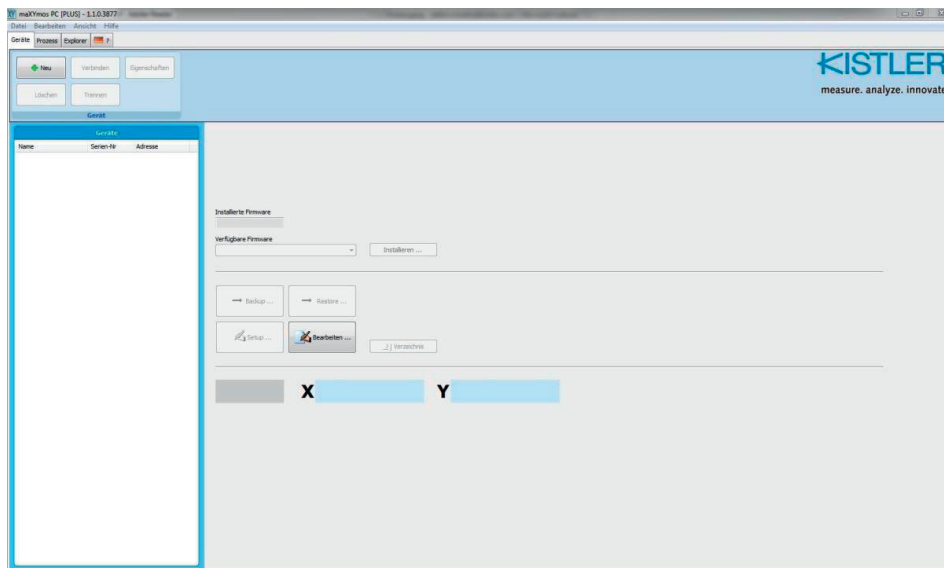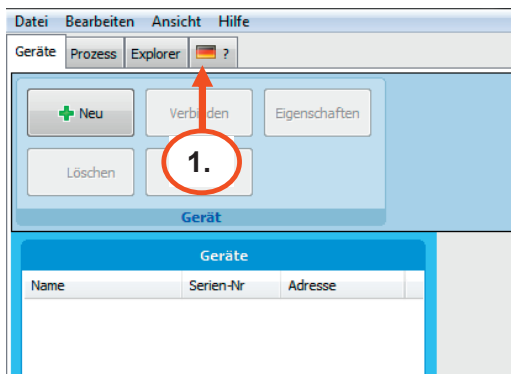

Fig.1: Main menu of the "Geräte" tab of the maXYmos PC (Basic and Plus) software

2. Language selection

1. Switch to the "Programm-Info+Basissetup" tab.
2. Select language.
3. Then close the program and restart it.

3. Tabs and their functions

The 4 top-left tabs in the main menu

are used for accessing the function blocks

- Devices (Geräte)
- Process (Prozess)*
- Explorer*
- Program Info+Basic Setup

3.1 "Devices" tab

The "Devices" tab provides the following functions:

- Firmware update
- Backup/restore
- Setup*
- Edit*
- Instant display

Switch to the "Devices" tab. If there is no connection to a maXYmos yet, most of the buttons and boxes will be inactive, and are thus grayed out. First of all, a connection must be established to at least one maXYmos. This then appears in the device list.

* Function is supported only for the Plus Version.

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### 3.1.1 Adding maXYmos to the device list

In order for direct communication to be possible with a maXYmos, the device must be in the "Devices" list, its status must be "aktiv" (green dot in the [icon] maXYmos icon) and selected per mouse-click

Procedure
1. Click +New.
2. Enter the IP address of the maXYmos.
3. Click "Search". If a maXYmos is found, its ID appears.
4. Click "OK" to add the device to the device list (5).
5. A left-mouse click highlights the list entry in blue, thereby establishing a connection to this device. All information and functions in this menu now relate to the selected device.

Device list

6. In BL devices with firmware version 1.1.3, the log-on procedure does not always function correctly. This fault can be ignored for the remainder of the process.
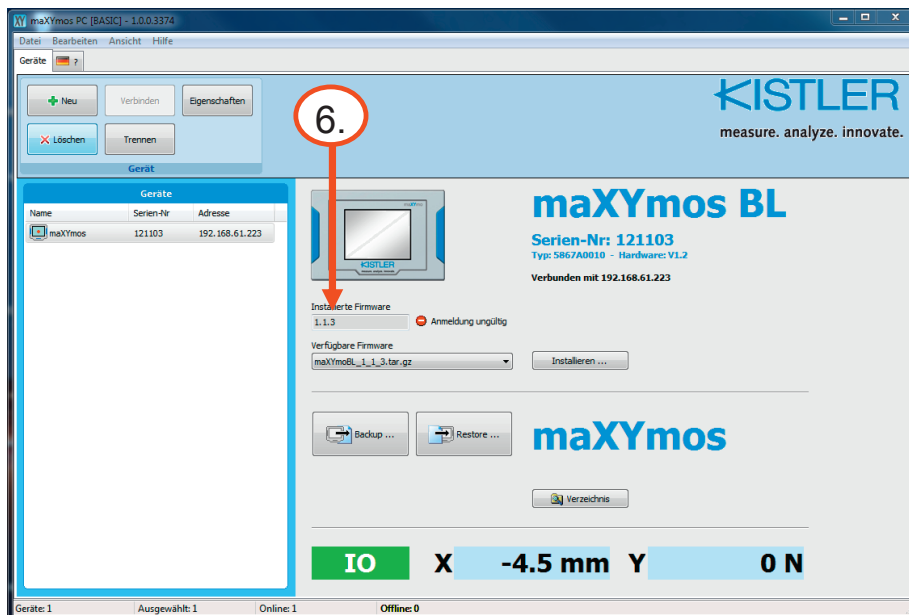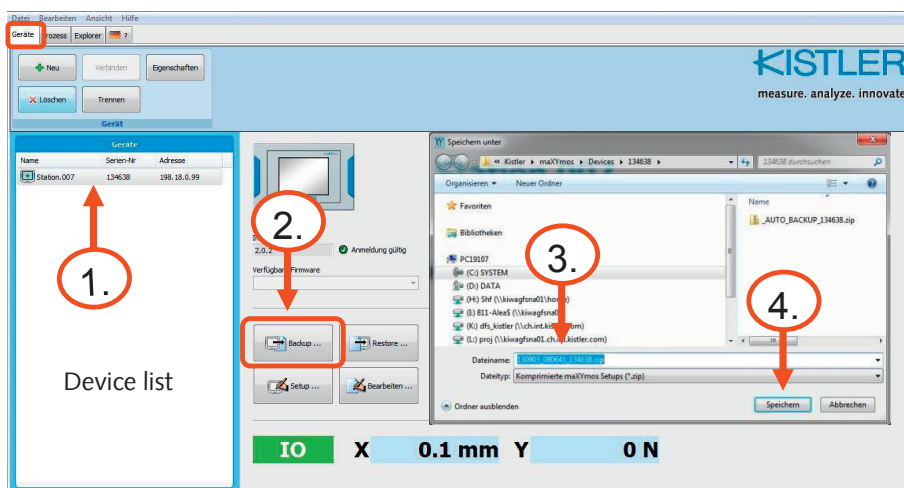

3.1.2 "Backup" function

The Backup function saves all the device settings in a file. These settings can be transferred back to the original device or to a new device using the Restore function.
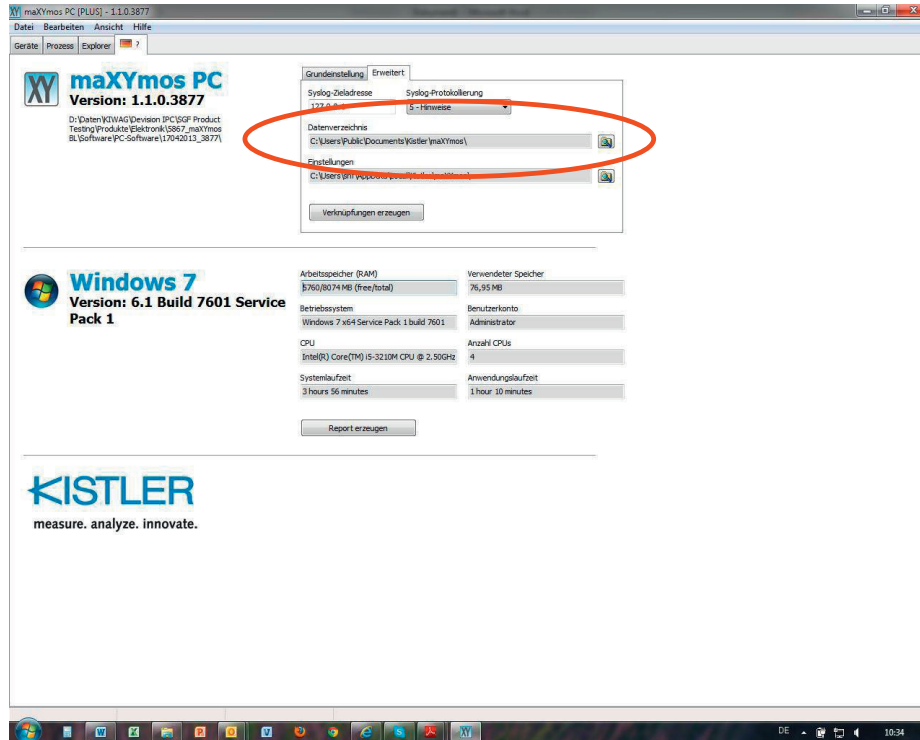
Procedure
1. Select the required device.
2. Click "Backup".
3. A file name is suggested: Date_Time_SerialNumber.zip.
4. Click "Save" to start the saving procedure.

Device list

Automatic backup

As soon as an maXYmos is included in the device list for the first time, an automatic backup is performed. This backup is stored in the data folder indicated in the Program Info+Basic Setup.

This procedure takes place in the background, i.e. the user does not need to do anything about it. Each file created in this manner starts with _AUTO, followed by the unique serial number of the device. The program creates a separate folder for each device or serial number:
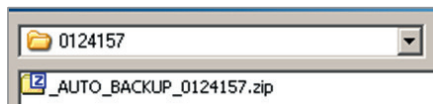
The automatic backup is repeated automatically if the file is at least older than one week. In this case, the previous automatic backup is overwritten. This function can be very helpful if the user has never performed a backup, for example, but the device has been adjusted or completely reset in the meantime.

3.1.3 "Restore" function

The Restore functions transfers the device settings saved by the backup function to a maXYmos. The destination for the backup file does not necessarily have to be the original device. The backup file can be transferred to any device.

Condition: Firmware of source and destination device V1.1.3 or later.

Procedure
1. Select the destination device in the device list.
2. Click "Restore".
3. Select the backup file.
4. Click "Open".
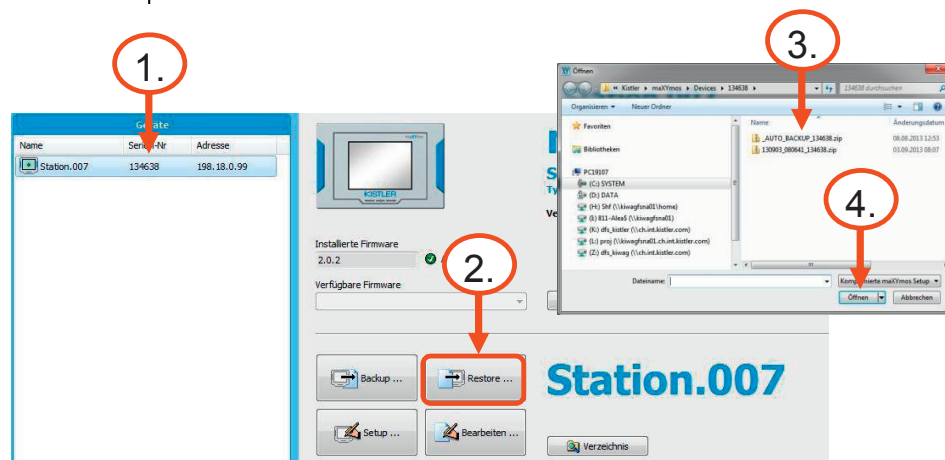
5. The following dialog box appears. Groups of parameters that are not to be transferred can be deselected at this point. For example, it may be sensible to retain the field bus setting of the destination device.

6. Click "OK" to start the restore procedure. The backup file is transferred to the destination device following a confirmation prompt.
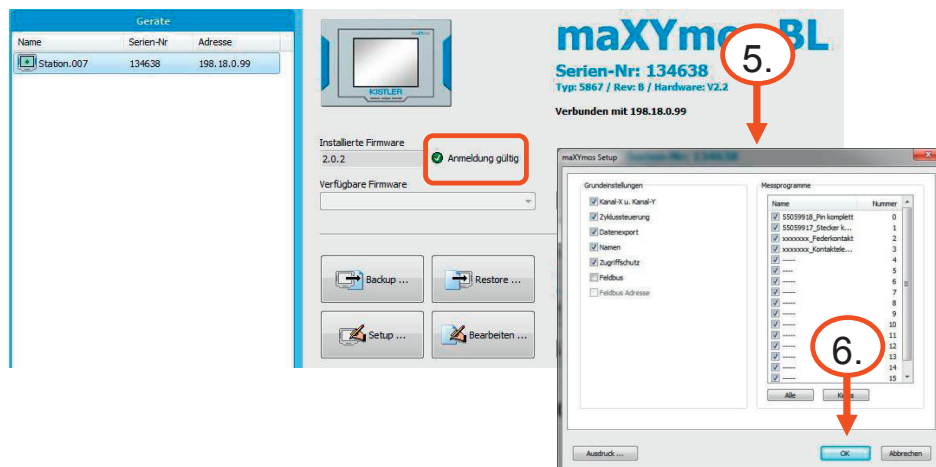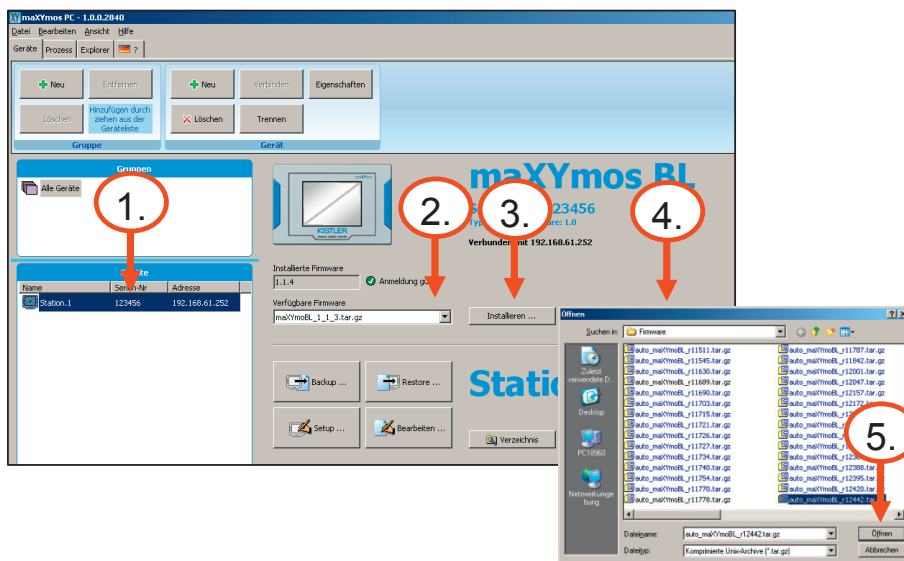
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3.1.4 "Firmware Update" function

The Firmware update functions updates your maXYmos to the latest status. Refer to the Kistler website to find out the current firmware version. Please note that you must be registered with Kistler (log-on) in order to download the firmware version.
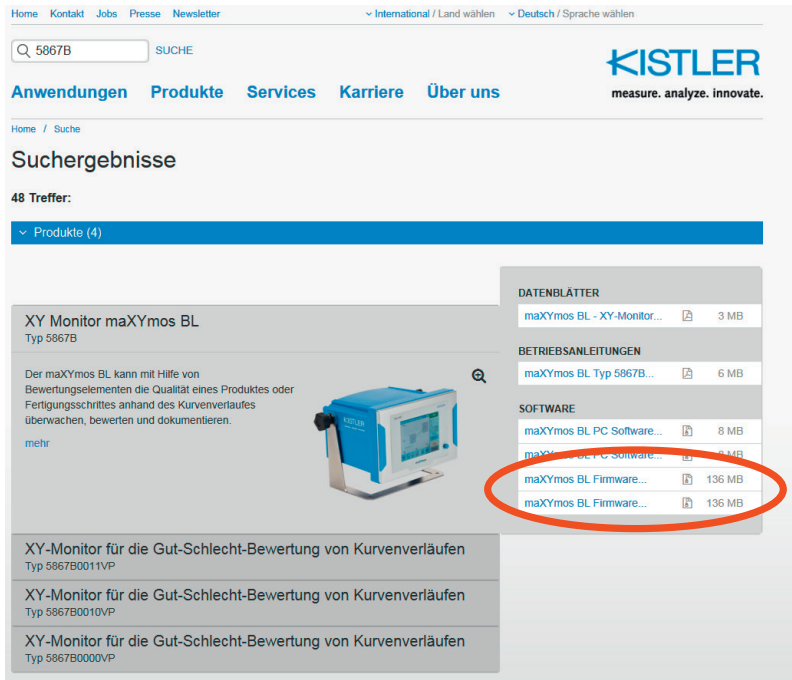

Procedure

1. Select the required device.
2. Select the firmware file from the maXYmos PC "Firmware" folder.
3. Click "Install…".
4. If you want a free choice of source folder, click "Install…" while pressing "Ctrl" at the same time.
5. Select the firmware file and click "Open".

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6. The update procedure is started by clicking "Start update". This procedure can take up to 10 minutes!
7. Important! Once the update has been transferred successfully, the respective version of maXYmos must be restarted. Only then will the new firmware be active.
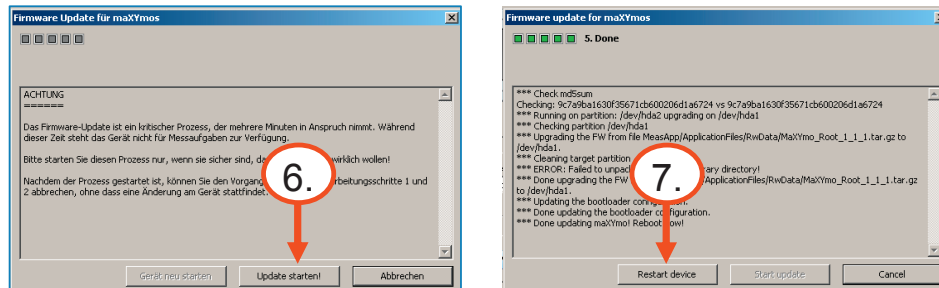
3.1.5 Setup*

Enables the entire device settings to be made using the familiar Windows user interface. First of all, the program reads out the entire maXYmos setup and uses it as the basis for further processing.

Important! For this reason, there must be a connection to the maXYmos in question, and the corresponding entry must be selected in the device list!
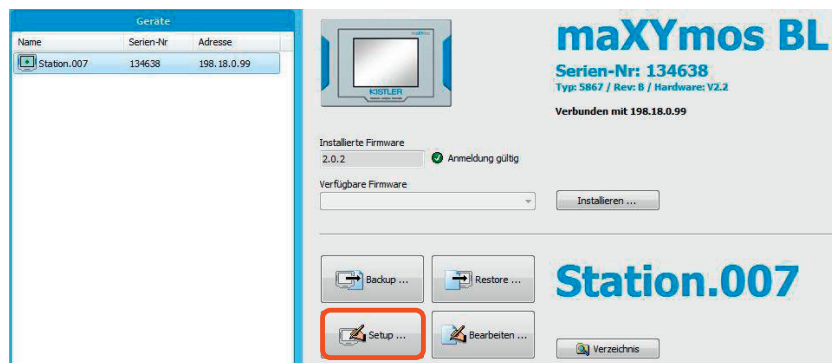

At least one measuring curve is required for setting evaluation elements. The measuring curve must be recorded in maXYmos and must be available via data export as a csv file or accessible to the PC software.
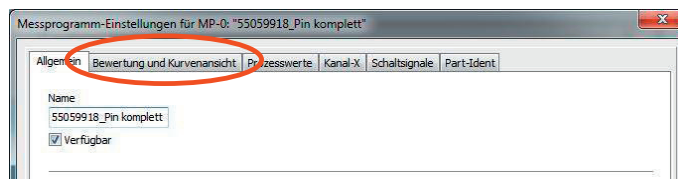
Procedure
1. From the Explorer tab, call up the csv files according to the data export folder.
2. Select measuring curves.
3. Combine measuring curves.
4. Convert the measuring curve or curve bundle into an xml file.
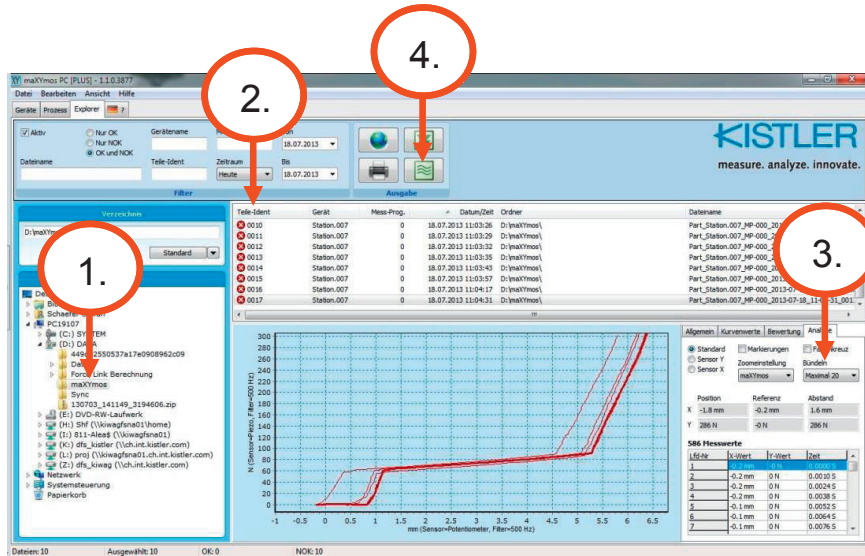
5. In the Devices tab, click "Setup" and then select MP.
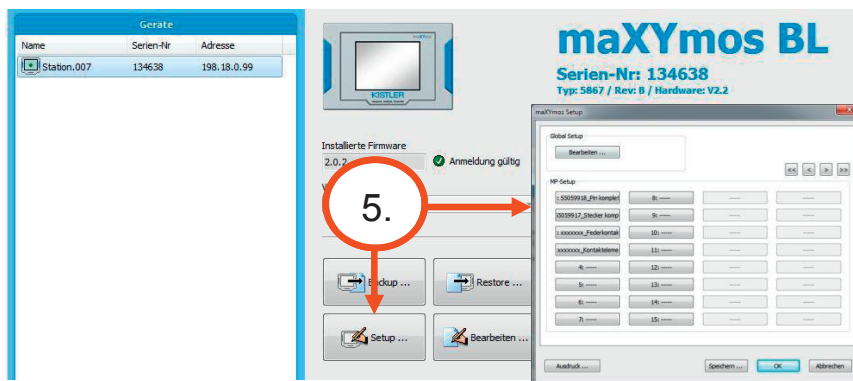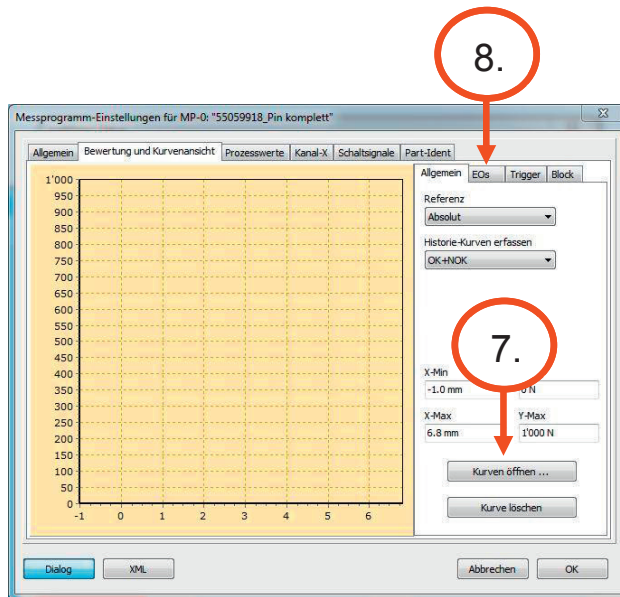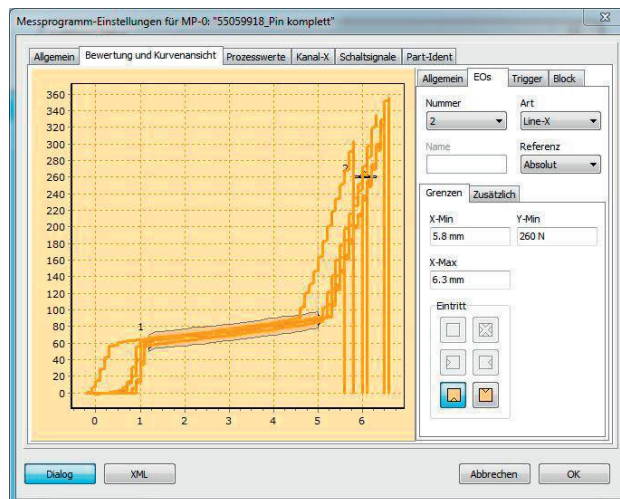

6. Click the "Evaluation and Curve View" tab.

7. Call up the converted xml file.
8. Click the Evaluation tab to set evaluation elements.

* Function is supported only for the Plus Version.

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9. You can now set the required evaluation elements accordingly.

10. To have the evaluation elements transferred to maXYmos, please click OK until the following message appears.
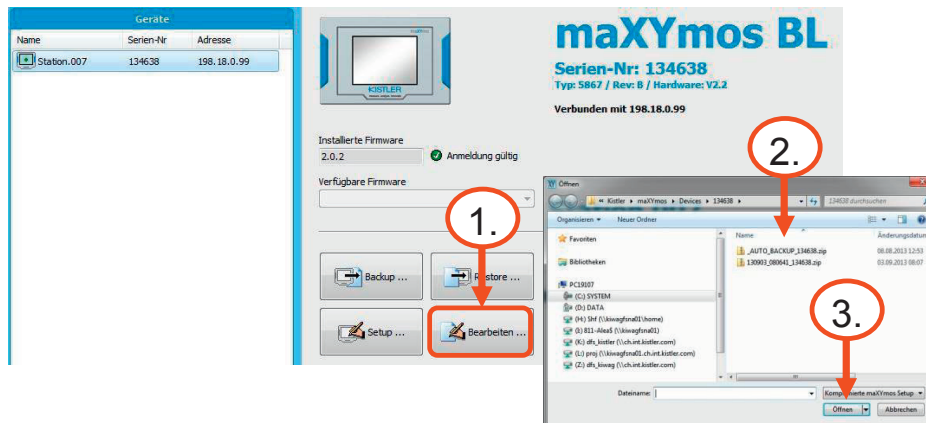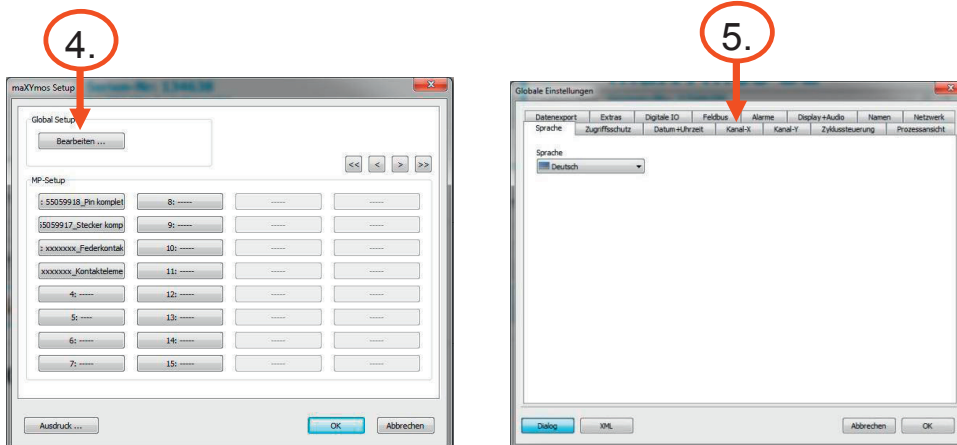
3.1.6   "Edit" function*

Makes it possible to open, "to look into" and edit already existing setup oder backup files.

Procedure
1. Click "Edit".
2. Select a setup or backup file.
3. Click "Open".

4. Now select the parameter range you would like to review or edit, e.g. GLOBAL.
5. The screenshot at the bottom right shows the setup for channel X, for example.

3.2 "Process" tab*

3.2.1 "View process pages" function

The process information pages of all active maXYmos devices shown in the device list can be shown here. If there are several active devices in the list, the information pages of these maXYmos devices are shown simultaneously.
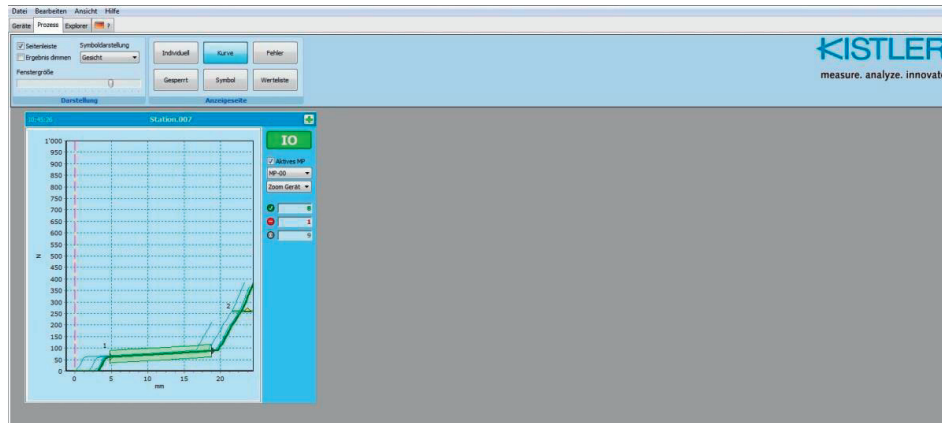
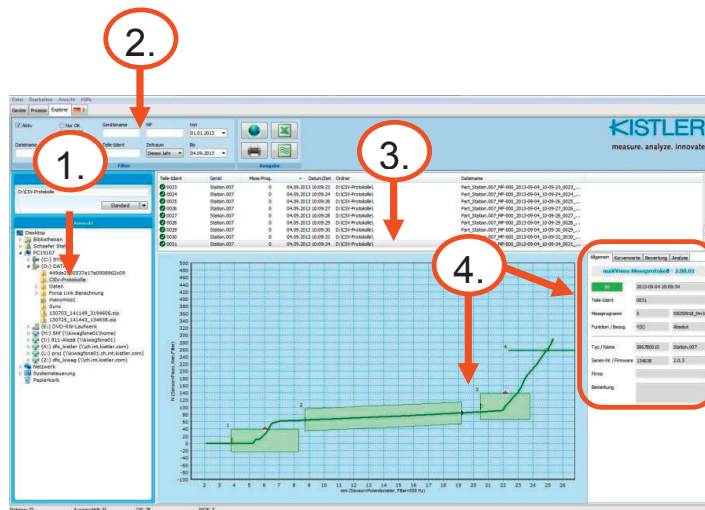* Function is supported only for the Plus Version.

3.3 "Explorer" tab*

- Search for exported measurement logs (csv files), open and display them
- Measure measuring curves
- Combine measuring curves
- Combine process values (xls) in a single statistical file (xls)
- Print measurement logs as PDF (not implemented at present)

3.3.1 Searching for log files in the export folder, opening and displaying them.

Procedure
1. Select the export folder (source folder).
2. If necessary, activate the filter function ("Activ" checkbox) and apply the specific filter.
3. The log files are listed. Select the log file you would like to be displayed.
4. The curve graph as well as the curve and process values are displayed.

Display curve and I/O-related process values and results.
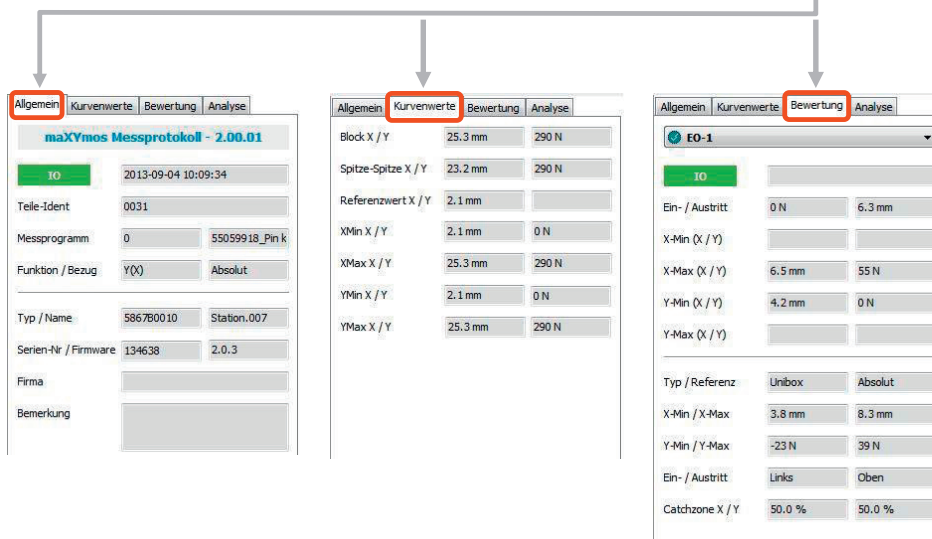

* Function is supported only for the Plus Version.

The "Details (Analysis)" tab gives access to the following functions:

1. **Standard**   Curve display according to the selected measuring
                                                function e.g. Y(X).
2. **Marks (Markierung)**   Show the individual measuring points (crosses).
3. **Cross hairs (Fadenkreuz)**   Curve measurement using cursor ruler.
4. **Zoom setting (Zoomeinstellung)** Apply zoom from maXYmos or zoom to vertices.
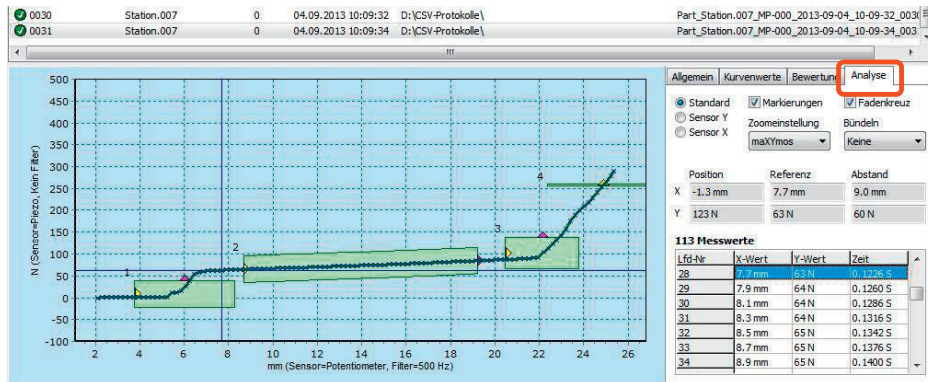
5. **Bundle (Bündeln)** Combine listed curves. Only matching curves (same MP, same
   station) are combined. The selected list entry (csv) is the determining factor!
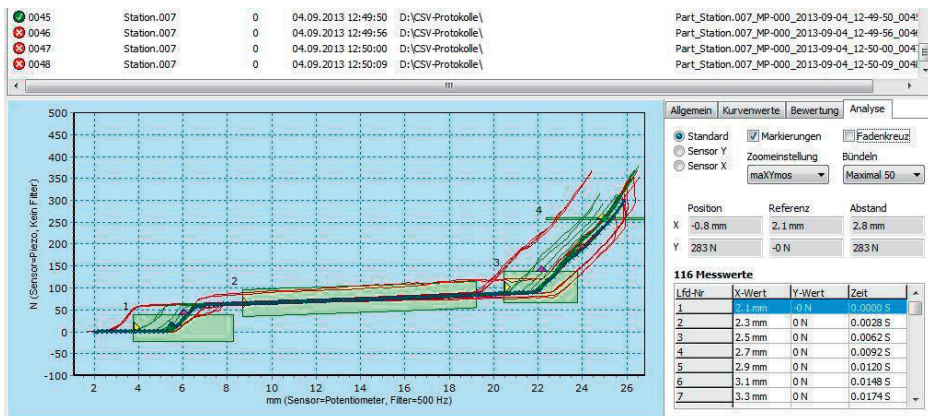
6. **Sensor X (Sensor Y)** The behavior of the measuring parameters is displayed over time
   for sensor X (corresponds to X(t) or sensor Y (corresponds Y(t)). This information can
   be used, for example, for providing information about the relationship between the
   advance speed and the overall result of the measurement.

* Function is supported only for the Plus Version.

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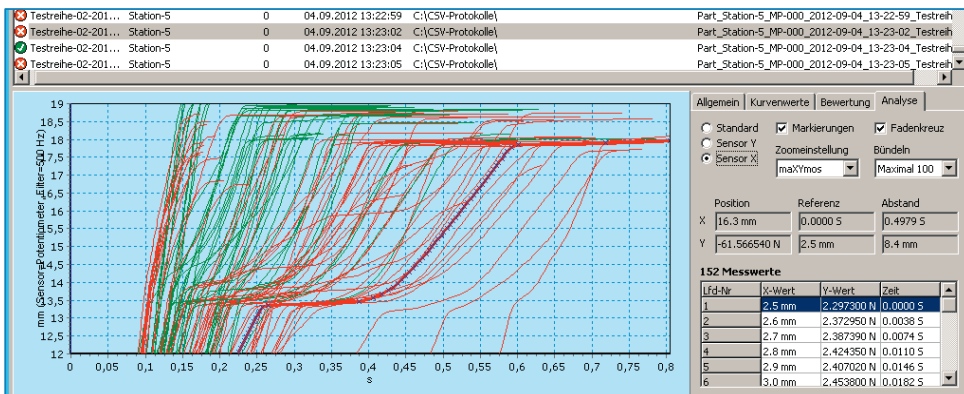
3.3.2 Combining process values from the measurement logs in a single XLS file

The process values of all listed measurement logs are extracted from them and combined in one XLS file, column-by-column.

Procedure
1. Click "Excel".
2. Select the destination folder, enter the file name, save.
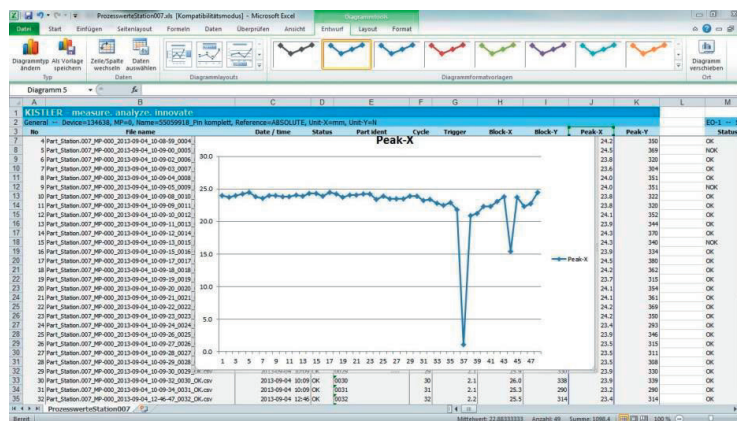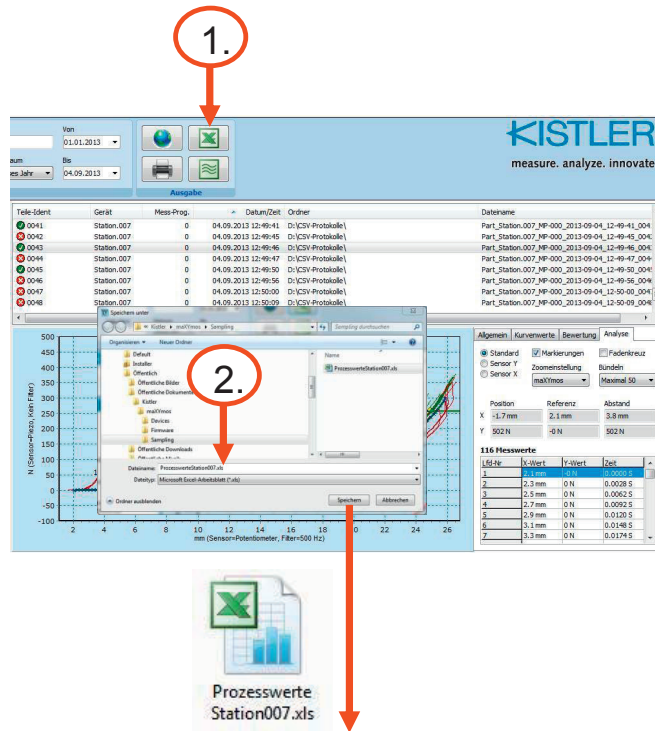
3.3.3 Sorting measurement logs

Copy logs from a common export folder into different folders organized according to creation date.
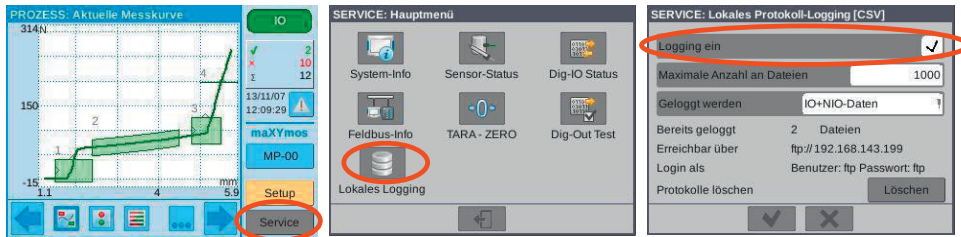
Procedure
1. Select export or source folder.
2. Using the "Standard" button, select the "Import…" function.
3. Create a project-related subfolder in the "Sampling" folder and confirm it by clicking "OK". The measurement logs from the source folder are now sorted into date-related subfolders. These are created automatically by the program.
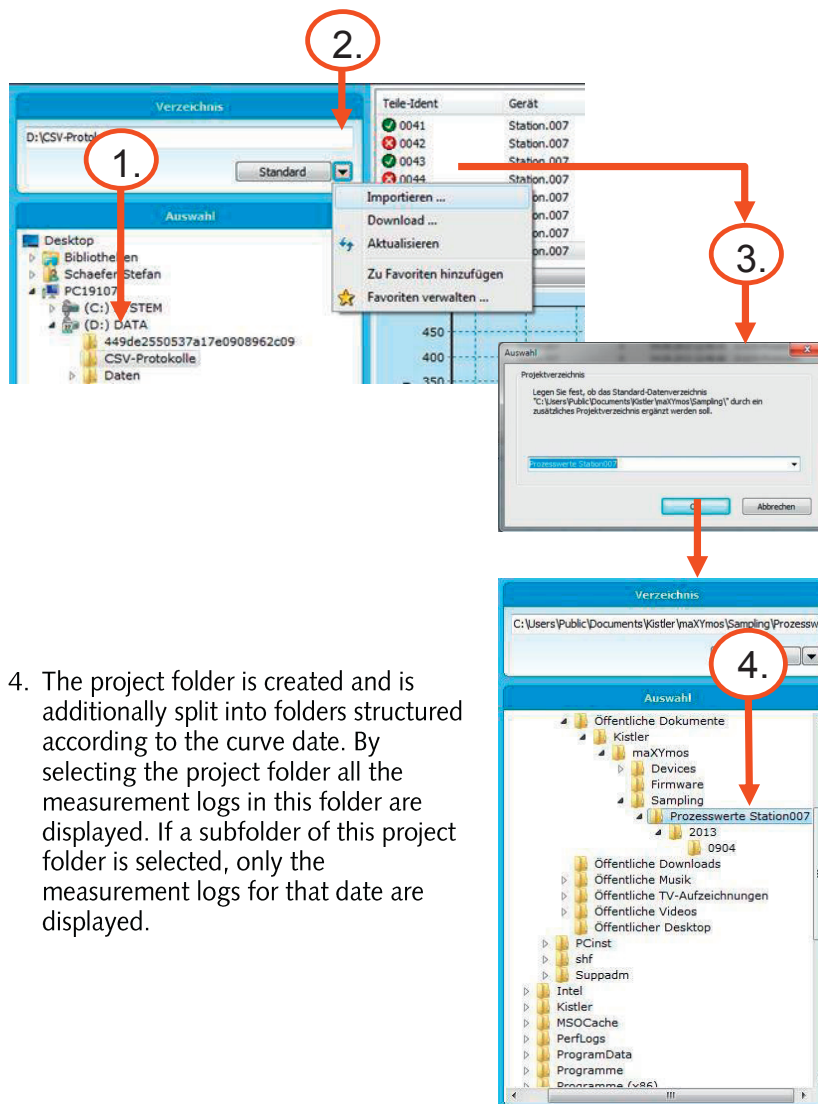
4. The project folder is created and is additionally split into folders structured according to the curve date. By selecting the project folder all the measurement logs in this folder are displayed. If a subfolder of this project folder is selected, only the measurement logs for that date are displayed.

### 3.3.4 Reading measurement logs out of maXYmos

Using the following setting in maXYmos BL, you can record measurement logs (csv files) temporarily.

Below, the temporarily recorded logs stored in the maXYmos are read out, and are displayed and evaluated using maXYmos PC.

Procedure
1. Using the "Standard" button, select the "Download" function.
2. Select maXYmos (set a tick) and
3. create "Project folder". This is integrated in the "Sampling" folder.
4. Confirm by clicking "OK"!
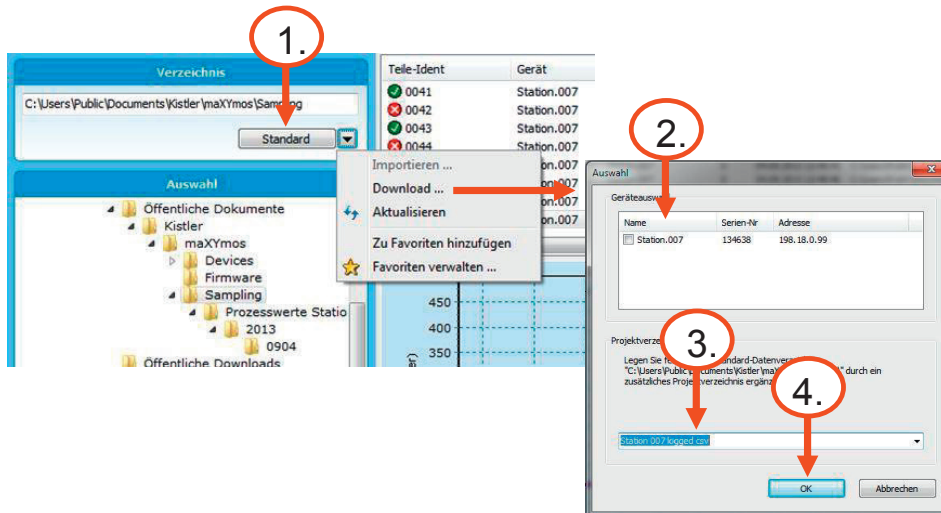
5. The project folder is created and is additionally split into folders structured according to the curve date. By selecting the project folder all the measurement logs in this folder are displayed. If a subfolder of this project folder is selected, only the measurement logs for that date are displayed.
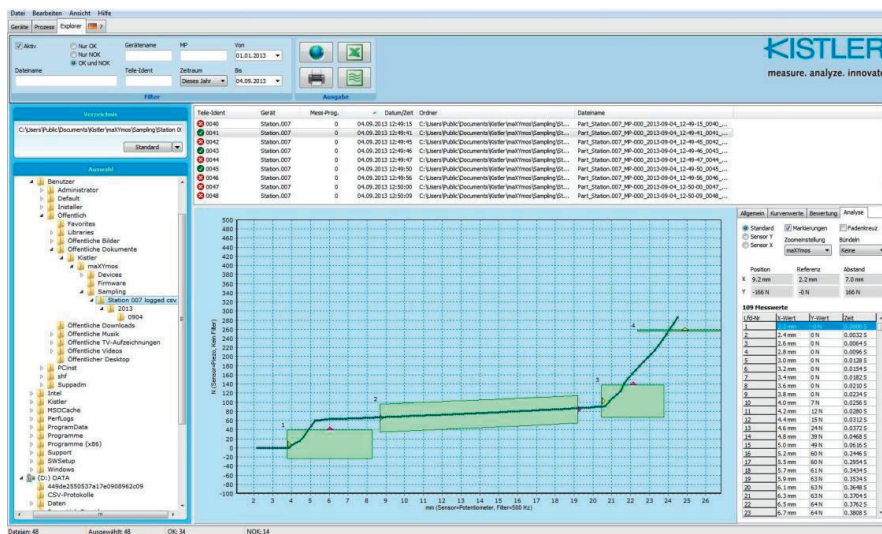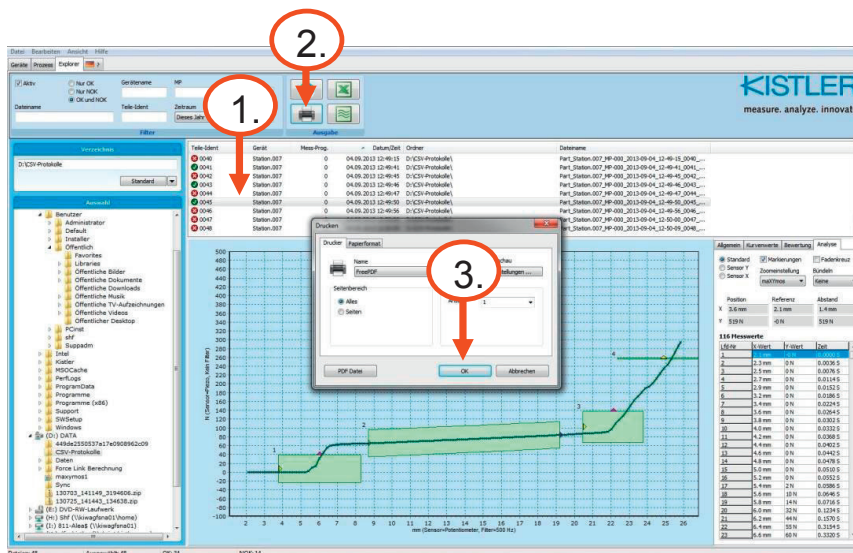
3.3.5 Printing measurement logs

The logs in CSV format are printed to a PDF file or onto paper in a professional layout. Such logs can be used as a quality record, for example in a legal dispute, or for general purposes as the basis for discussion in QA meetings. In addition to the actual process values, they also contain the matching nominal values used as the basis for the evaluation result. There is a reference to the parts ID number.

Procedure
1. Select the logs to be printed in the log box.
2. Click the Printer icon to activate the Print dialog box.
3. Make the required settings, e.g. paper or PDF print, and click "OK".
4. The log(s) are generated and printed.

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