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Brief Operating Instructions
Memobase Plus CYZ71D

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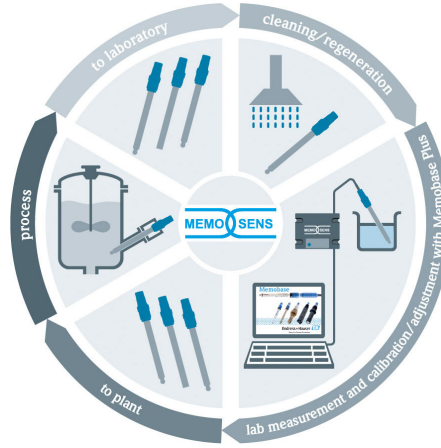

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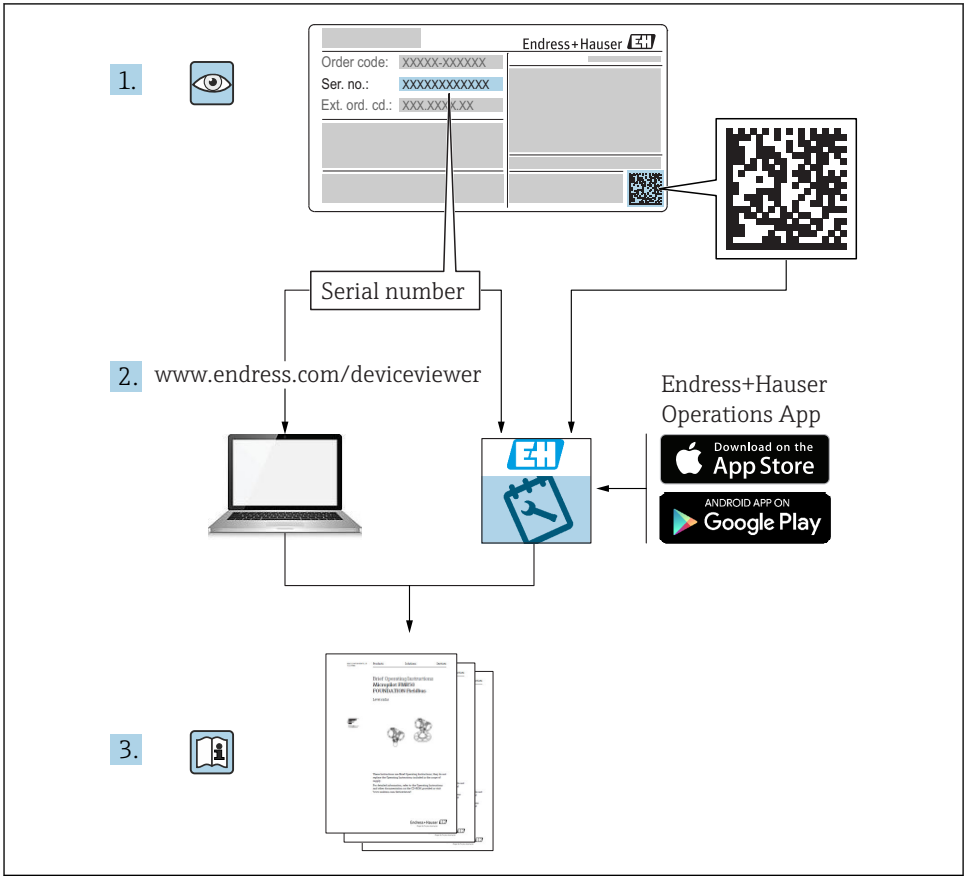
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1 Change history

Date	Version	Software modifications	Documentation
04/2019	02.00.xx	Expansion ▪ Implementation of sensor COS81D ▪ Microsoft SQL Server (instead of PostgreSQL) ▪ "Restricted user" mode Improvement Revised reports for .pdf, .xml and .csv file formats ▪ Chlorine sensors not supported ▪ Windows 8 not supported	BA00502C/07/../06.19
12/2017	01.06.xx	Expansion "Administrator" user role	BA00502C/07/../05.17
09/2016	01.05.xx	Expansion ▪ Central database installation ▪ Operation with a central database and at least one local database (Master-Slave operation) ▪ Data of Endress+Hauser testing equipment and samples recorded by scanning the bar code ("Advanced diagnostics" license) ▪ Measuring range monitoring ("Advanced diagnostics" license) ▪ Validity of sensor calibration checked on an hourly basis ("Advanced diagnostics" license) ▪ Monitoring limits for deviation ("Advanced diagnostics" license) ▪ Sensor-specific identification label assigned	BA00502C/07/../04.16

Date	Version	Software modifications	Documentation
11/2015	01.04.xx	Expansion ▪ Multi-point calibration (pH sensors) ▪ Sensor condition appraised and displayed ▪ Implementation of sensor CLS82D ▪ .XML export of measurement and calibration data ▪ Installation possible on Windows 10	BA00502C/07/../03.14
10/2013	01.02.xx	Expansion ▪ Interface to connect to an Oracle database ▪ Implementation of the CPSx6D combination electrode ▪ Interface for data exchange with the W@M Portal ▪ Tag name and Memoclip in the calibration report ▪ Graphic display of all calibrations in the calibration report ▪ Calibration result displayed in the calibration report Improvement ▪ Easier installation on Windows XP and Windows 7 ▪ Unrestricted use of automatic logout function ▪ Enhanced database structure Update of connected network clients required	BA00502C/07/../02.13
01/2013	01.01.01	Original software	BA00502C/07/../01.12

2 About this document

2.1 Document function

These instructions contain all the information needed to install and update the software.

2.2 Warnings

Structure of information	Meaning
DANGER **Causes (/consequences)** If necessary, Consequences of non-compliance (if applicable) ▶ Corrective action	This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation **will** result in a fatal or serious injury.
WARNING **Causes (/consequences)** If necessary, Consequences of non-compliance (if applicable) ▶ Corrective action	This symbol alerts you to a dangerous situation. Failure to avoid the dangerous situation **can** result in a fatal or serious injury.
CAUTION **Causes (/consequences)** If necessary, Consequences of non-compliance (if applicable) ▶ Corrective action	This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or more serious injuries.
NOTICE **Cause/situation** If necessary, Consequences of non-compliance (if applicable) ▶ Action/note	This symbol alerts you to situations which may result in damage to property.

2.3 Symbols

Symbol	Meaning
	Additional information, tips
	Permitted or recommended
	Not permitted or not recommended
	Reference to device documentation
	Reference to page
	Reference to graphic
	Result of a step

3 Product description

3.1 Software function

Memobase Plus is a software package offering central management of measurement data, calibration data and sensor data for sensors with Memosens technology.

It allows end-to-end documentation of data relevant to the sensor and measuring point, e.g.:
- Calibration history including information on the reference solutions used
- Sensor utilization data such as total operating hours, operating hours under extreme process conditions
- Assignment of a sensor to a measuring point or a group of measuring points

The MemoLink sensor terminal box only transmits data digitally so no measured data can be corrupted. The measuring signal is converted to digital data in the sensor, which means that the MemoLink sensor terminal box, cable and PC software do not affect the measured values.

3.1.1 Licenses

The functional range depends on the order configuration.

The following functional packages are available:

License	Function range
Memobase Plus Basic	Measure, calibrate, document
Advanced diagnostics	Functional range of the "Memobase Plus Basic" license and also: ▪ Detection and assessment of sensor condition ▪ Multipoint calibration and adjustment of pH sensors ▪ Monitoring of defined limits for measurements and adjustments ▪ Data for Endress+Hauser reference solutions and sample data transferred via barcode
Pharmaceutics compliance	Functional range of the "Memobase Plus Basic" license and also: Advanced user administration

3.1.2 User roles

To protect Memobase Plus against unauthorized or undesired modifications, you can allow database access only to certain users who have a database password, and assign user roles to these users.

You can use the following user roles:

	Administrator	Expert/Service	Maintenance	Operator	Restricted user
Calibrate (all parameters)		x	x	x	x
Change calibration settings		x			
Change client alias	x				
Change language of user interface	x	x	x	x	x

	Administrator	Expert/Service	Maintenance	Operator	Restricted user
Change language of reports	x	x			
Configure advanced diagnostics		x			
Activate automatic data export		x			
Determine settings for data export	x				
Configure diagnostic settings		x	x	x	
Database administration	x				
Global data access	x	x	x		
Local data access	x	x	x	x	x
Manage connected sensors (including deactivation)		x	x		
Manage license information	x				
Manage non-connected sensors (including deactivation)		x			
Manage reference solutions		x	x		
Scan testing and inspection equipment using barcode [1)]					x
Manage sensor templates		x			
Measure		x	x	x	x [2)]
Set up barcode reader		x			

	Administrator	Expert/Service	Maintenance	Operator	Restricted user
Set up user interface	x	x	x		
Set up Master-Slave operation	x				
Set up connection to W@M Portal	x				
Use Master-Slave operation		x	x	x	
Set up connection to W@M Portal		x	x	x	
User administration	x				
View and export reports		x	x		
View audit trail log		x	x		
View sensor information		x	x	x	x

1) Calibration settings are locked
2) Can be measured only using the predefined method of measurement

4 Installation

Information on how to install the MemoLink sensor terminal boxes and perform the electricial connection is provided in Operating Instructions BA01134C (MemoLink).

4.1 System requirements

System requirements for installation and use of Memobase Plus:

System requirements	
Operating system	Windows 7 Service Pack 1 (32 and 64 bit) Windows 10 (32 and 64 bit)
Monitor	At least 1280×1024 pixel, also suitable for touchscreen
Processor	Minimum clock speed of 1 GHz Not a virtual machine
Free hard disk memory	At least 3 GB for the program and database
RAM	1 GB
USB	At least a type A USB interface At least USB 2.0

System requirements	
Barcode reader	Supported interfaces: ▪ USB-HID interface ▪ USB-COM interface The interface must be configured on the barcode reader. Minimum resolution: 0.254 mm (10.0 mil)
Other	▪ CD-/DVD drive or internet access for program installation ▪ Adobe Reader ▪ Printer driver ▪ Microsoft .NET Framework 4.7

4.2 Installing the software

4.2.1 Installation wizard

The installation wizard contains the following functions:
- Step-by-step installation of the Memobase Plus software
- Update function to update the Memobase Plus software

▶ To update your Memobase Plus software, you should also start the installation wizard.

It is not possible to install on a virtual machine. You require administrator rights to run the installation. Please contact your system administrator if problems occur during the installation.

Only connect the USB cable and MemoLink sensor terminal box to the computer once the software has been installed successfully.

1. During the installation process, follow all the instructions step by step.
2. Select **Next** to continue the installation.
3. Select **Back** to return to the previous installation step (if possible).
4. Select **Cancel** to cancel the installation.

Windows license information:
If the license information is not retained following installation, proceed as follows:
- After installation, right-click the Memobase Plus desktop icon: "Run as administrator".
- Enter the license information again.
- Restart Memobase Plus.
  The license information should now be retained.

4.2.2 Installing Memobase Plus

1. Insert the DVD into your CD/DVD drive. The installation procedure starts automatically if the Autostart function is enabled. If the Autostart function is not enabled, start the **Setup.exe** program in the main directory on the DVD.
2. Follow the instructions shown.

▶ Contact your IT department for a central server installation.

Make sure your user name and password are stored in a safe place. If you lose this information it is not possible to recover the saved data.

1. Insert the DVD into your CD/DVD drive. The installation procedure starts automatically if the Autostart function is enabled. If the Autostart function is not enabled, start the **Setup.exe** program in the main directory on the DVD.
2. Follow the instructions shown.

▶ Contact your IT department for a central server installation.

Make sure your user name and password are stored in a safe place. If you lose this information it is not possible to recover the saved data.

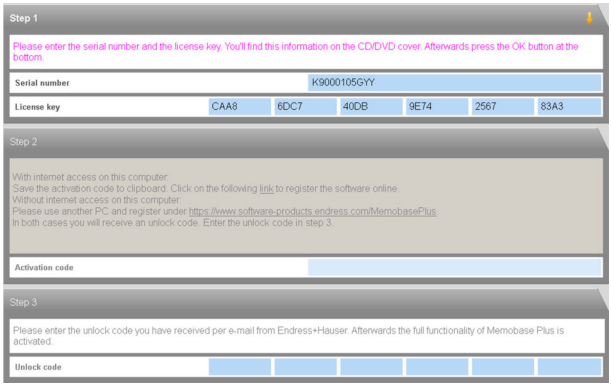
4.2.3 Activating the license

Functions of Memobase Plus that are independent of the sensor, e.g. user administration, are available following installation.

To be able to use the complete range of functions of the Memobase Plus version you have purchased, register your license via the Internet. This can be done on the PC or Windows-based tablet on which you installed the software or on any other PC or Windows-based tablet with Internet access. For this, you require the serial number and the license key on the back of the DVD cover.

If you want to enter a new license key to extend a temporary license, for example, proceed as you would for a new license. The software does not need to be reinstalled and the database is retained and remains in operation.

1. Enter the serial number and the license key in step 1.

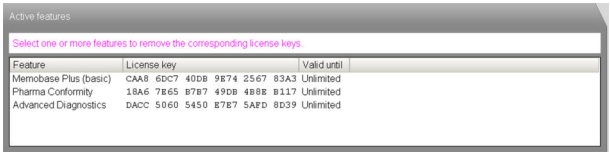


2. Click **OK** .
   ↳ The activation code is generated.

3. Follow the instructions shown. You can copy the activation code to the clipboard via the **Copy to clipboard** button.

4. Click the link in step 2.
   ↳ The software opens a window for activating the software.
5. Enter your activation code and follow the instructions shown. If you have copied the activation code to the clipboard, you can paste it using the CTRL + V key combination.
6. Enter the activation code in the **Unlock code** field. Endress+Hauser will have sent you this code to the e-mail address you specified.

7. Click **OK**.
   ↳ You can now access the range of functions of the Memobase Plus license you purchased.
   Your activated Memobase Plus licenses are displayed under **SETUP** > **LICENSE** > **Features** in the **Active features**.



4.3 Updating the software

The installation wizard of the Memobase Plus software contains the update function with which the Memobase Plus software can be updated.

Therefore, if you want to update your Memobase Plus software you should also start the installation wizard. Follow the instructions of the installation wizard, see the "Installing the software" section.

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