



CycleManager pro

Installation instructions

eppendorf

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1 Warranty / Liability

Our software is written with the greatest possible care and attention. However, based on the present state of the art it is not possible to write software such that it runs without error in all applications and combinations.

Eppendorf warrants that at the point of handover the data carrier on which the software is stored and the supplied documentation are materially free of error.


If the data carrier or supplied documentation should nonetheless contain errors, the licensee may demand replacement within a warranty period of 6 months.

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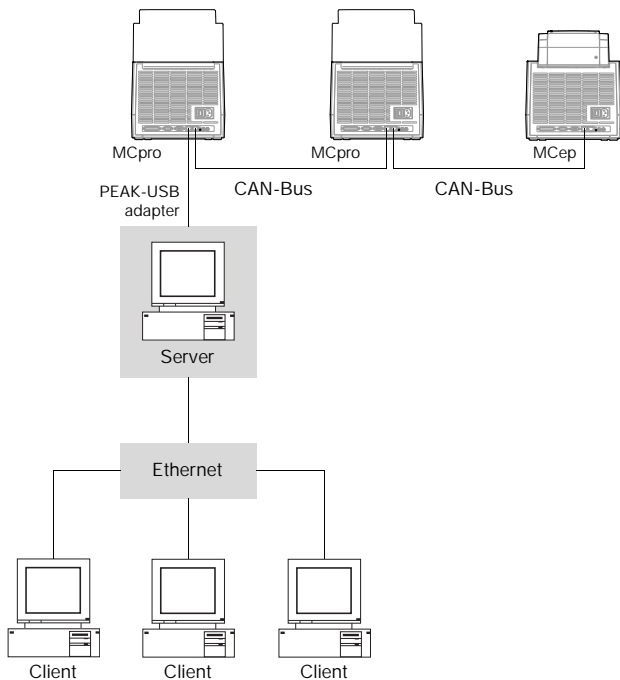
In particular, no guarantee can be given that the software will run together with other programs selected by the licensee.

Nor can liability be accepted for any damages or consequential loss which may be suffered (such as loss of profit, interruption of business, loss of information or data).

Caution: By installing CycleManager pro and associated components, you accept the enclosed license agreement!

- 
- CD-ROM containing
 - CycleManager pro software,
 - Documentation in PDF format:
 - Booklet
 - Operating manual (additionally available as online help module) in English and German language,
 - Mastercycler pro/ep software update instructions,
 - Error code description

3 Commissioning of the Mastercycler pro/ep devices



3 Commissioning of the Mastercycler pro/ep devices

With CycleManager pro you can control up to 30 devices of the Mastercycler pro or Mastercycler ep series in any combination. The devices have to be interconnected via CAN-bus cables.

A USB PEAK adapter for connection of the first Mastercycler pro/ep is included with some versions of the CycleManager pro package. An additional CAN-Bus cable is required for each additional Mastercycler pro/ep to be connected (see ordering information).

For reliable operation CAN-Bus cables supplied by Eppendorf should be used.

Be aware of the total power consumption of the Mastercycler pro/ep devices. Do not use multiple power sockets!

Before placing the Mastercycler pro/ep devices to their operating location, set the Term switches and the CAN-Bus addresses at the rear as follows:



The Mastercycler pro/ep at the end of the CAN-Bus must be set to TERM ON.



All other Mastercycler pro/ep devices must be set to TERM OFF.



For each device, set a unique address between (including) 02 and 31 on the dials using a flat-blade screwdriver.

Establish the connection between the CAN_in socket of the first Mastercycler pro/ep and a USB socket of the server computer via the PEAK adapter.

Note: The PEAK adapter has to be connected directly to a USB socket on the server computer. Do not use USB hubs.

Connect the CAN_out socket to the CAN_in socket of the next Mastercycler pro/ep using a CAN-Bus cable. Repeat the last step for each additional device to be connected.

Note: The total CAN-Bus cable length must not exceed 40 m.

4 System requirements

Server:

- Windows 7 Professional 64 Bit (Service Pack 1)
- Intel Core 2.6 GHz or AMD Athlon II 2,2 GHz
- 4 GB RAM, 10 GB free hard drive space
- Network interface card for connection to the CycleManager pro or CycleManager pro clients
- TCP/IP network installed
- 1 USB interface (USB 2.0) for the USB/CAN adapter

Client:

- Windows 7 Professional 64 Bit (Service Pack 1)
- Intel Core 2.6 GHz or AMD Athlon II 2,2 GHz
- 4 GB RAM, 4 GB free hard drive space
- Network interface card for connection to the ep CycleManager pro or CycleManager pro server
- TCP/IP network installed
- Display resolution 1024 x 768

Note: Java Runtime Engine is installed with the application.

All PCs in use have to conform with CE regulations (including EMI).

Note: Client and server may also be installed on the same computer.

5 Installation

Before installing a new version of CycleManager pro previous installations have to be removed completely (see section Uninstallation). Log files and PCR programs are saved during the process.

CycleManager pro installation:

Close all running applications and insert the CD into the CD-ROM drive. Connect the PEAK-adaptor to the USB-port and then start the Setup.exe program. The installation assistant will lead you through the installation. By default, the CycleManager pro server and client software will be installed together.

Client installation:

The CycleManager pro client software can be installed on the same computer that is running the server. Alternatively, the client can be installed on separate computer(s) connected to the server via a TCP/IP network. Please note that TCP/IP networking has to be installed even if both server and client are running on the same computer.

Start the Setup.exe program on the CD and choose the client for installation. The installation assistant will lead you through the installation. Java Runtime is then installed on the computer automatically. If another version of Java Runtime is already installed on the computer, choose "Modify" (*not* "Remove") during the installation, if applicable. Do not restart the computer during the installation.

5 Installation

Note: Other active programs that demand a great deal of system resources (e.g. screen savers) or that monitor the communication flow of the interfaces (e.g. firewalls and virus scanners) can limit the functionality of the CycleManager pro software. This may result in error messages. Also, make sure that no shut-off timers for hibernation or stand-by mode are activated.

Uninstallation

Use "Add/Remove Programs" in the windows control panel to uninstall the following components of CycleManager pro:

- PCAN OEM 64-Bit
- CycleManager pro

Do not restart the computer during the uninstallation.

6 *Starting the software*

Start the administration tool via the "Admin" desktop icon while logged in to windows with administrator privileges. Opening the "Admin" tool the first time, you have to assign a PIN for the Admin user. The administration is used for CycleManager pro user account and database management. Before exiting the Admin tool, save the settings using "Commit changes" from the "Server" menu.

Switch on all Mastercycler pro/ep devices.

Start the CycleManager pro server.

On the client computer start the CycleManager pro client program. The first time the client is started, a dialog to enter the IP address of the server is displayed. If both client and server are running on the same computer, confirm the default settings.

All other applications not required for operation of the CycleManager pro on the clients and server should be ended.

7 *Mastercycler pro/ep firmware update*

The first time the Mastercycler pro/ep devices are used in combination with CycleManager pro, the cyclers' firmware has to be updated to the version supplied with CycleManager pro:

- Mark the "System" node.
- Select the "Software Update Cycler" page.
- Click on the "Source file" button (the button with two dots).
- Select the "Cycler.bin" file by double-clicking on it.
- Start the software update using "Apply". All the Mastercycler pro/ep devices highlighted in blue in the "Device" window are automatically updated to the required software status.
- Following the software update, all the devices are shown in the tree. Exit the "Software Update Cycler" application by pressing "Cancel".

Shutdown all Mastercycler pro/ep devices and reboot the computer.

The software update procedure is also described in the "Software-Update" PDF document in the root directory of the installation CD-ROM.

8 Troubleshooting

If cyclers are not recognized by the CycleManager pro, i.e. if they are not visible in the tree, all connections and settings have to be checked again.

- Shutdown all Mastercycler pro/ep and close CycleManager pro Server and Client.
- Check if all cable connections are running correctly from CAN-in to CAN-out. If required, replace cables.
- Check the correct address settings of the cyclers (numbered 02–31 without duplicating a number). On Mastercycler pro devices the address is shown in the blue display.
- Check all TERM switches. The last connected cycler must be set to "Term On" (down), whereas all others have to be set to "Term off" (up).
- When settings have been changed, cyclers must be shut down. Wait 1 – 2 minutes before restarting.

If Mastercycler pro/ep devices are displayed in a yellow color instead of green in the tree or if no PCR program can be started, check the software version of the device. If necessary, a software update has to be performed as described above.

If a cycler is not recognized by CycleManager pro, although all connections and settings are correct, the software update can be carried out by choosing "Single Device" in the software update screen.

8 Troubleshooting

Error messages

Error codes and troubleshooting procedures are listed in the "Errorcodes" PDF document in the root directory of the installation CD-ROM. Basically, error messages may be caused by the following:

- *Communication errors*: Check cables, addresses and TERM switches. Reboot the cyclers or the computers. When restarting a Mastercycler pro/ep, leave the device switched off until it disappears from the CycleManager pro tree.
- *Handling errors*: Error messages are generated if e.g. the lid has not been closed properly or if no tubes/plates have been inserted into the block.

9 Ordering information

<i>Order no. (international)</i>	<i>Order no. (North America)</i>	<i>Description</i>
5349 810.001	950017007	CycleManager pro (incl. Installation instructions, comprehensive online help, connecting cable, PEAK-adapter)
5349 820.007	950017202	CycleManager pro (incl. Installation instructions, comprehensive online help)
5349 840.008	950018008	CycleManager pro (incl. Installation instructions, comprehensive online help, connecting cable, PEAK-adapter)
5341 612.006	950014008	CAN-Bus connecting cable between two thermomodules, 50 cm, 1:1, shielded
5341 611.000	950014016	CAN-Bus connecting cable between two thermomodules, 150 cm, 1:1, shielded



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Your local distributor: www.eppendorf.com/worldwide

Eppendorf AG · 22331 Hamburg · Germany · Tel: +49 40 53801-0 · Fax: +49 40 538 01-556 · E-mail: eppendorf@eppendorf.com
Eppendorf North America, Inc. · 102 Motor Parkway · Hauppauge, N.Y. 11788-5178 · USA

Tel: +1 516 334 7500 · Toll free phone: +1 800-645-3050 · Fax: +1 516 334 7506 · E-mail: info@eppendorf.com

Application Support Europe: Tel: +49 1803 666 789 (Preis je nach Tarif im Ausland; 9 ct/min aus dem dt. Festnetz; Mobilfunkhöchstpreis 42 ct/min)
support@eppendorf.com

North America: Tel: +1 800 645 3050 · E-mail: techserv@eppendorf.com

Asia Pacific: Tel: +60 3 8023 6869 · E-mail: support_asiapacific@eppendorf.com