



Automotive
Energy & Power Analysis
Field Service
Environmental
Research & Development

DEWESoft 6.2

Driver Update Manual



ISO9001

... the precision signal conditioning company



General Information

General Information

Copyright notice

© 2005 DEWETRON elektronische Messgeraete Ges.m.b.H. All rights reserved. May not be duplicated or disseminated in any fashion without the express written permission of DEWETRON Ges.m.b.H.

Trademark notice

All trademarks are acknowledged to be the property of their owners, with all rights and privileges thereto. No infringement is intended.

Microsoft, Excel and Word are registered trademarks of Microsoft Corporation.

National Instruments is a trademark of National Instruments

Microstar, DAP and iDSC are trademarks of Microstar Labs Inc.

Data Translation is a trademark of Data Translation, Inc.

Disclaimer

DEWETRON makes no claim about the efficacy or accuracy of the information contained herein. Use of this manual is entirely at the user's own risk. Under no circumstances will DEWETRON assume any liability caused by the use, proper or improper, of this manual or the information, textual, graphical or otherwise, contained within it.

Warranty agreement

For warranty information please refer to the *DEWESoft Software Users Manual*, which is shipped together with the software.

Content

General Information	2
1 Win2k installation example	4
1.1 Open device manager and go to device properties.....	4
1.2 Check installed driver version	4
1.3 Start update driver	5
1.4 Make install wizard choice	5
1.5 Select wanted device driver source	5
1.6 Select the wanted driver source, use browse...	6
1.7 Continue with model select	6
1.8 Acknowledge selected driver	6
1.9 Driver CD needed	7
1.11 Driver installation finish	7
1.12 Close updated driver dialog	8
1.13 Reboot question	8
2 WinXP installation example	9
2.1. Open device manager and go to device properties	9
2.2 Check installed driver version	9
2.3 Start update driver	10
2.4 Make install wizard choice	10
2.5 Select wanted device driver source	11
2.6 Select the wanted driver source, use browse ..	11
2.7 Continue with model select	11
2.8 Driver installation finish	12
2.9 Close updated driver dialog.....	12
2.10 Reboot question	12
3 Detailed notes about special installers	13
3.1 Common notes	13
3.2 Notes on DEWE-ORION updates	13
3.3 DEWE-BOOK-USB2 installation (DT-Book 9834)	13
3.3.2 DT-Book driver installation	14
3.5 Vector PCMCIA CanCardXL	20
3.6 Softing CAN installation	21
3.7 Where to find the drivers	24

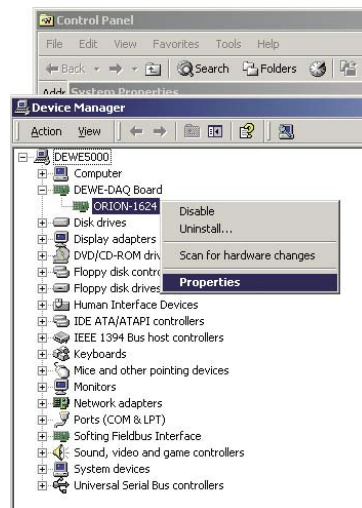
Win2k Installation Example

Device driver update procedure hints and recommendations

1 Win2k installation example

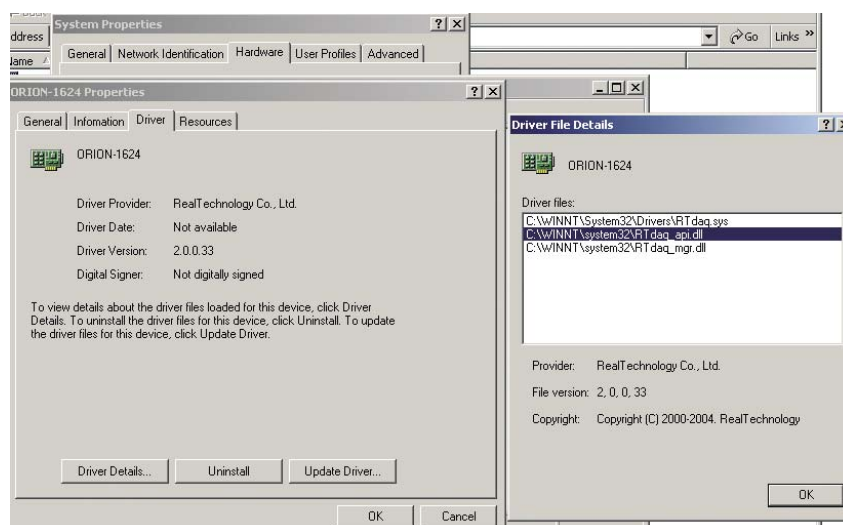
This example is based on the DEWE-ORION driver.

1.1 Open device manager and go to device properties



1.2 Check installed driver version

Note: the shown version in Drivers-Tab of Windows® does not always match the real installed version. Click on Driver-Details to check the correct version. In common please always install latest driver not older once.



START UPDATE DRIVER BY CLICKING ON UPDATE DRIVER ...

Win2k Installation Example

1.3 Start update driver



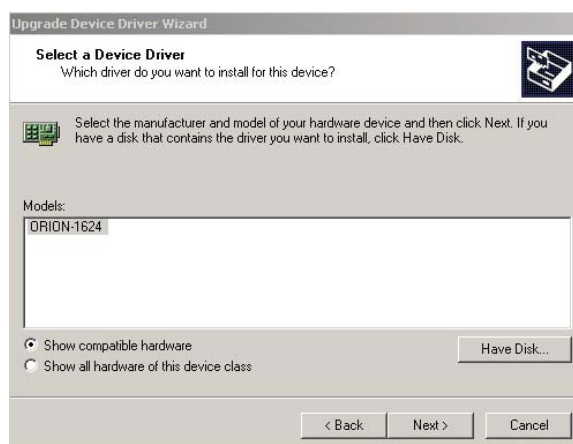
CLICK ON NEXT

1.4 Make install wizard choice



SELECT ITEM OF KNOWN DEVICE DRIVER LIST AND CLICK ON NEXT

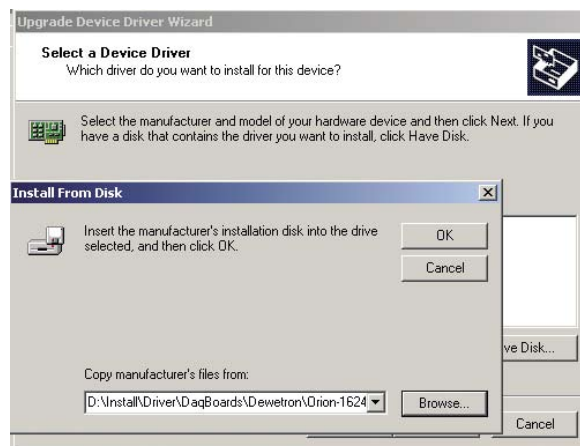
1.5 Select wanted device driver source



CLICK ON HAVE DISK... TO LOCATE THE WANTED DRIVER TO INSTALL

Win2k Installation Example

1.6 Select the wanted driver source, use browse...



CLICK ON OK AFTER LATEST DRIVER INF-FILE WAS LOCATED

1.7 Continue with model select



If older driver might have been installed on this machine already, the shown list might contain more than one choice. If have disk... was finished with Ok, the chosen driver model is selected in this list automatically. Do not change the selection, and simply click on next.

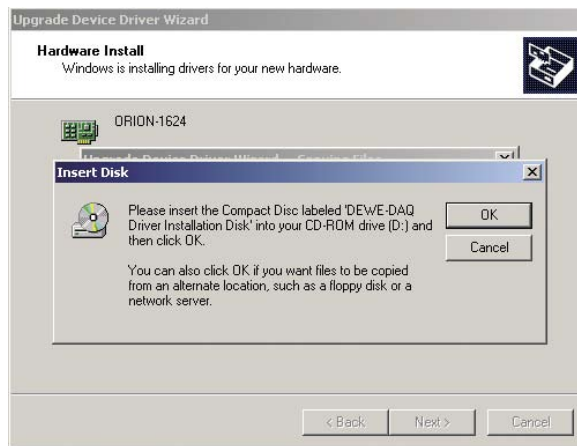
1.8 Acknowledge selected driver



CLICK ON NEXT TO CONTINUE

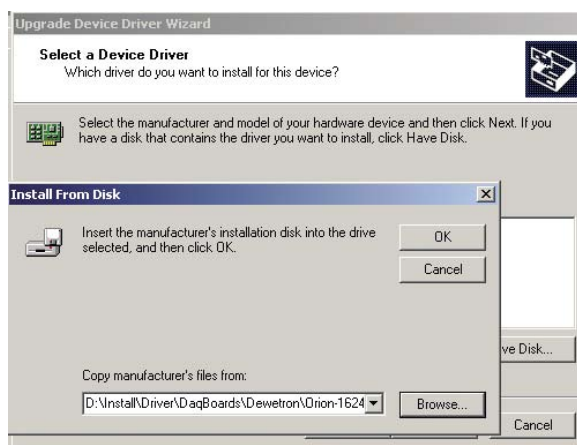
Win2k Installation Example

1.9 Driver CD needed



This message will not pop up if the driver source is directly on the HDD or Network drive. Make sure the driver CD is inserted and click Ok to continue with step 1.10. otherwise continue with 1.11.

1.10 Acknowledge driver source



If the source did not change, just click on Ok, otherwise browse for correct driver location.

1.11 Driver installation finish



CLICK ON FINISH TO FINALIZE THE INSTALLATION

Win2k Installation Example

1.12 Close updated driver dialog



CLICK ON CLOSE TO FINALIZE UPDATE

1.13 Reboot question



Not all driver updates will ask for a reboot, but is in common highly recommended to reboot after a update of any driver, since some of the needed driver dlls might be loaded in memory and so are different from what just got updated to disk.

WinXP Installation Example

2 WinXP installation example

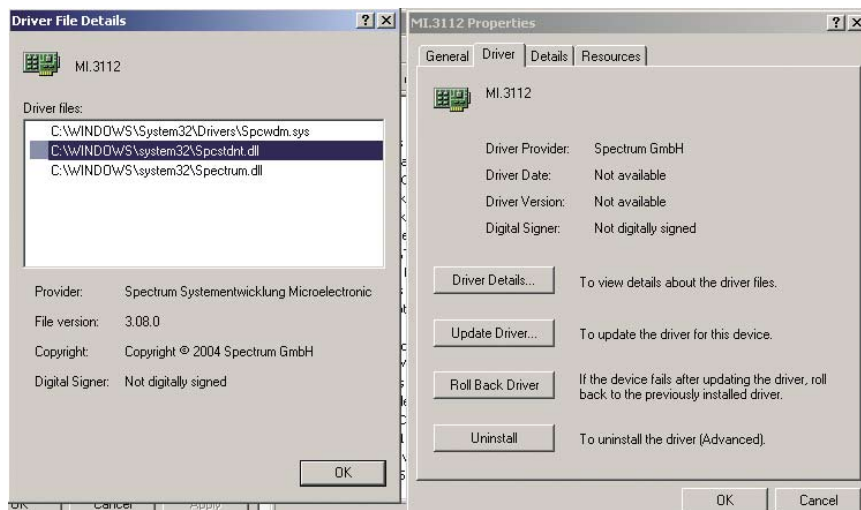
This example is based on the Spectrum driver.

2.1. Open device manager and go to device properties



2.2 Check installed driver version

Note: the shown version in Drivers-Tab of Windows® does not always match the real installed version. Click on Driver-Details to check the correct version. In common please always install latest driver not older once.



START UPDATE DRIVER BY CLICKING ON UPDATE DRIVER ...

WinXP Installation Example

2.3 Start update driver

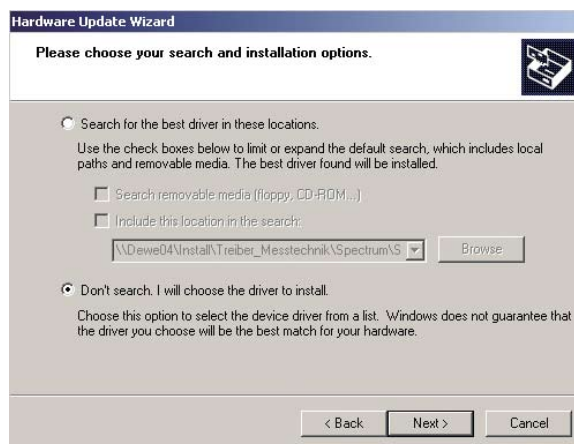


SELECT NOT TO USE WINDOWS® UPDATE SEARCH AND CLICK ON NEXT

2.4 Make install wizard choice



SELECT ADVANCED INSTALL LIST AND CLICK ON NEXT.



SELECT MANUAL SEARCH OPTION AND CLICK ON NEXT

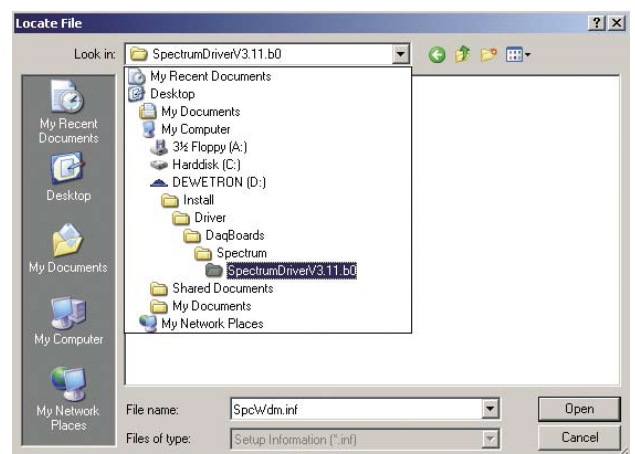
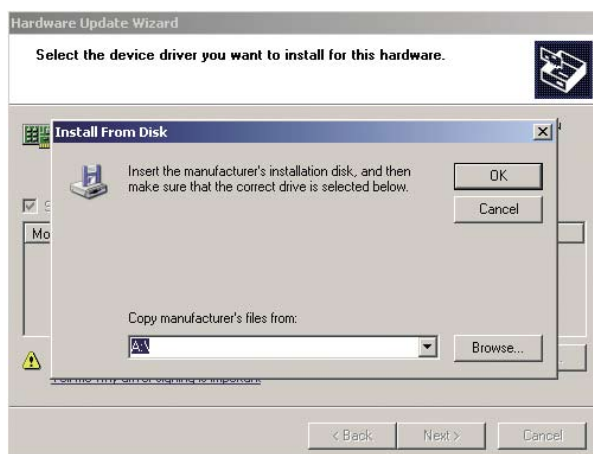
WinXP Installation Example

2.5 Select wanted device driver source



CLICK ON HAVE DISK... TO LOCATE THE WANTED DRIVER TO INSTALL

2.6 Select the wanted driver source, use browse ..



CLICK ON OPEN AFTER LATEST DRIVER INF-FILE WAS LOCATED

2.7 Continue with model select



If older drivers might have been installed on this machine already, the shown list might contain more than one choice. If have disk... was finished with Ok the chosen driver model is selected in this list automatically. Do not change the selection, and simply click on next.

WinXP Installation Example

2.8 Driver installation finish



2.9 Close updated driver dialog



CLICK ON OK TO FINALIZE UPDATE

2.10 Reboot question



Not all driver updates will ask for a reboot, but is in common highly recommended to reboot after a update of any driver, since some of the needed driver dlls might be loaded in memory and so are different from what just got updated.

Notes About Special Installers

3 Detailed notes about special installers

3.1 Common notes

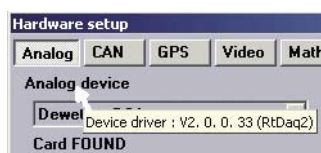
It is highly recommended to close all running applications before doing a driver update, since for example DEWESoft might use the currently installed driver.

Driver installation kits should be installed before installing the hardware, such as NIDAQ, NICAN, DT-Book or SoftingCAN drivers.

3.2 Notes on DEWE-ORION updates

It is recommended to use the latest DEWE-ORION driver always with the latest official release of DEWESoft. Nevertheless there might be some exception due to special system configuration. The only known exception with DEWE-ORION V2.0.0.35 is that the card order could be wrong with a 13-Slot PCI-Expansion.

As long as any application software is opened with the DEWE-ORION-Driver activated, please to not open the device manager, because it will cause probably the whole system to crash. In case of DEWESoft you can check for the installed driver version within the HardwareSetup screen, by moving the mouse-pointer over the label for "Analog device".



Recommended driver version : V2.0.0.35 or higher.

3.3 DEWE-BOOK-USB2 installation (DT-Book 9834)

The DT-Book 9834 provides as a new feature the serial number of the A/D-card. This serial number is used by DEWESoft for registration. If for any reason the serial number is not available of the DT-Book 9834 DEWESoft will read as was the serial number of the local HDD.

The DEWE-BOOK-USB2 has a build in USB to RS-485 converter, so the following instructions are split into 4 sections for converter and DT-book driver installation as well as first time connection of the complete Book and some hints what additional settings are needed. Both drivers should be installed before connecting the Book with converter to the computer !

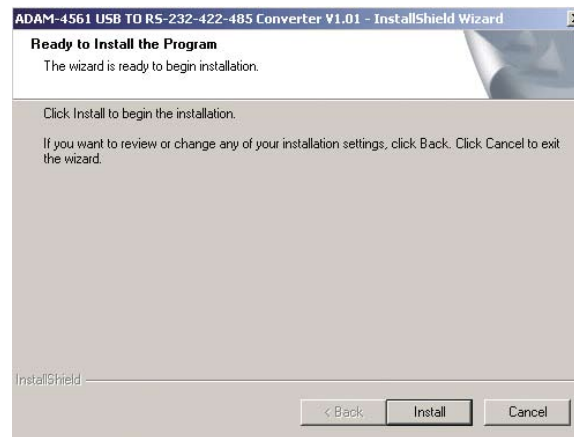
Notes About Special Installers

3.3.1 USB to RS-485 converter driver installation

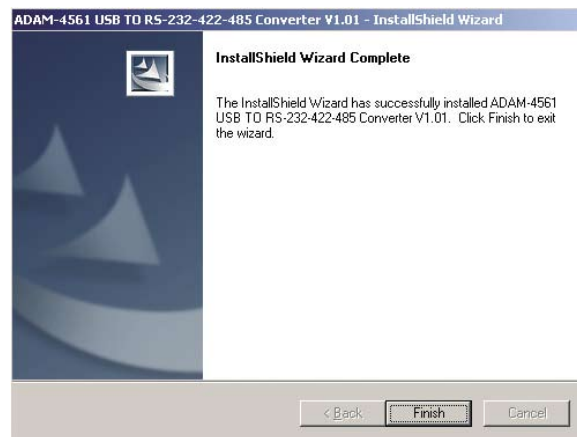
a. Start prepared RS-485 installer DrvInst_ADAM-4561_USB_to_485.exe



b. To start installation click on Install



c. Acknowledge the end of installation and click on Finish



3.3.2 DT-Book driver installation

a. Start prepared DT-Book driver installer, setup.exe



Notes About Special Installers

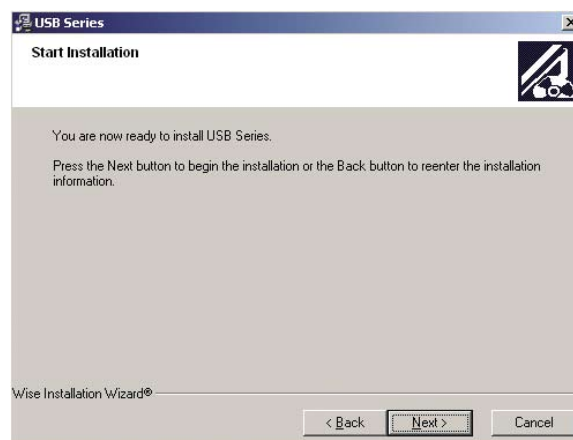
b. Click next on setup welcome screen



c. Click next on destination choice
Recommended for it is drive c:

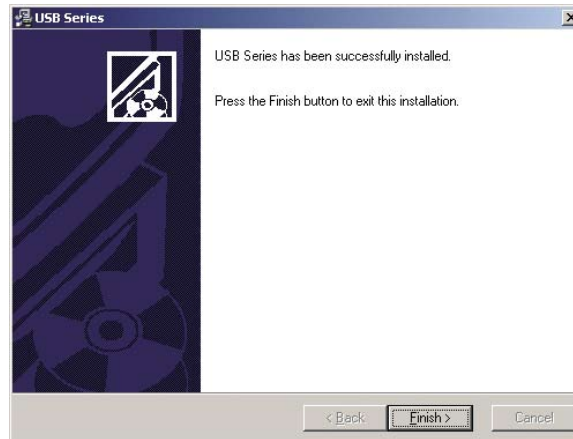


d. Start installation process, click on next



Notes About Special Installers

e. Click on finish to finalize the install procedure



3.3.3 Connect now the DT-Book for Windows® driver installation

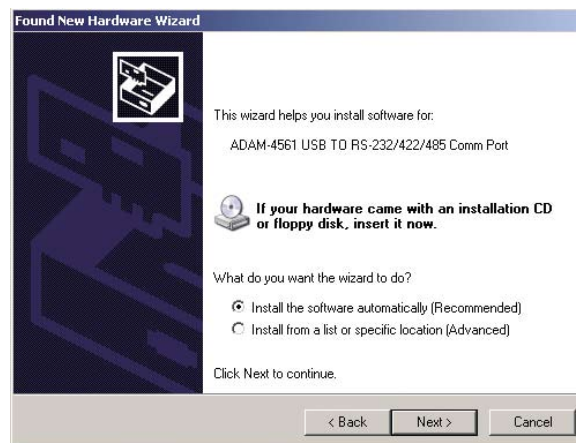
The order of description here is Converter than DT-Book, could be also the other way round.

a. RS-485 Windows® driver start



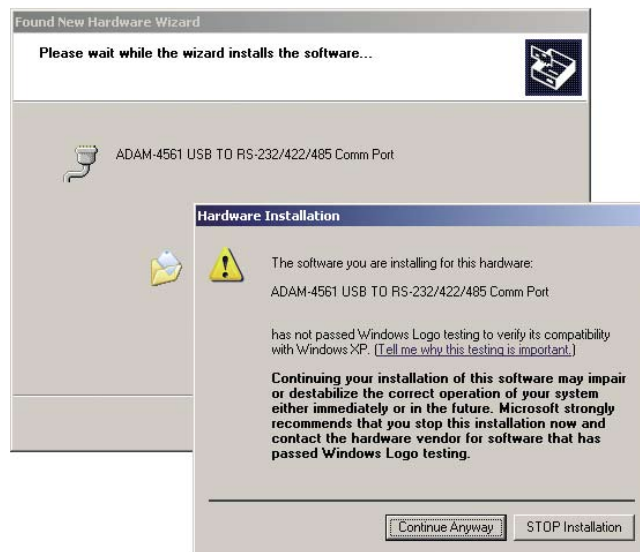
SELECT NO WINDOWS® UPDATE THIS TIME AND CLICK ON NEXT

b. Keep automatic install and click on next

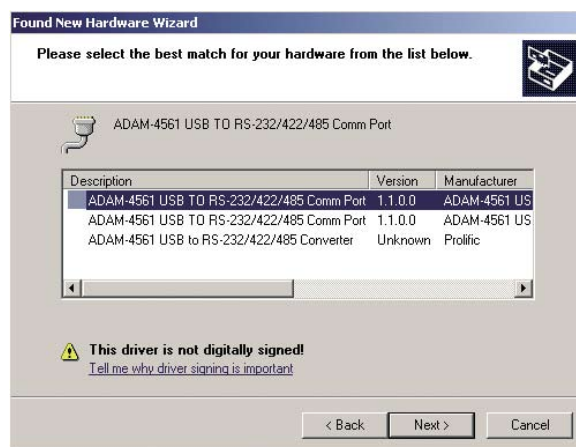


Notes About Special Installers

c. Don't worry just trust the installer and click on "continue anyway"



d. Select first shown option in the list and click on next



e. Click on finish to finalize the RS-485 converter driver installation



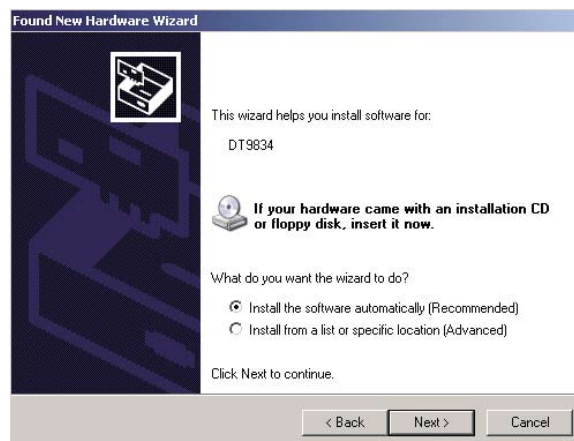
Notes About Special Installers

f. DT-Book Windows® driver start



SELECT NO WINDOWS® UPDATE THIS TIME AND CLICK ON NEXT

g. Keep automatic install and click on next



h. Click on finish to finalize the RS-485 converter driver installation

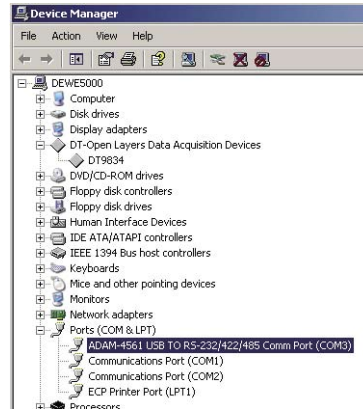


Notes About Special Installers

3.3.4 Additional hints and settings to check

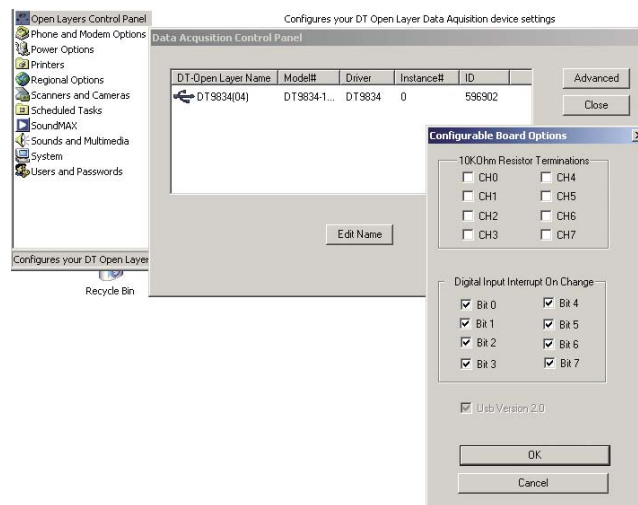
a. Check for used COM-Port

Open the device manager and check on which COM-Port Windows® configured the USB-RS-485 converter. As shown in the example, mostly COM3.

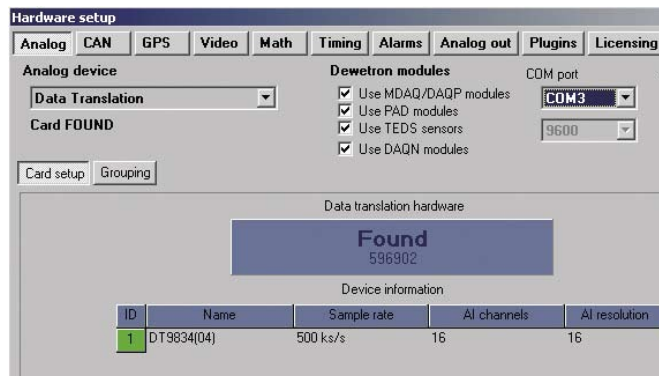


b. Check DT-Book properties

Open the control panel to open the Open Layers Control Panel for DT. Make sure the 10 kOhm Resistor Terminations are all OFF. You get to this dialog by highlighting the found DT-Book and clicking on the Advanced button.



c. Finally use information as found from above in DEWESoft



Specially make sure the correct COM-Port as found in section a. is used also in DEWESoft.

Notes About Special Installers

3.4 Notes on National Instruments NIDAQ / NICAN driver

In common it is recommended to use the NIDAQ version 7.3.1 or higher where driver problems specially for PCMCIA , USB and FireWire® devices from NI are fixed. Only exception are old systems with very old PCMCIA cards or some PCI cards out of the first series, which are not supported within this new V7.3.1. recommended old driver instead would be V6.9.3.

For using any NI-CAN hardware with DEWESoft the driver version V2.2.0 or higher is needed !!

Both NIDAQ V7.3.1 and NICAN V2.2.0 are available either from the NI-home-page or available on CD-Rom's coming with the systems or cards. Please install always first the NI-drivers before installing the hardware if possible.

3.5 Vector PCMCIA CanCardXL

Be aware that only inserting the PCMCIA card without connecting the outside CAN-adapter will cause DEWESoft to show as a result a "not found card" in the hardwaresetup screen.

Also if only one can-port is connected on the PCMCIA card, it must be connected to CAN1. If it would be connected to Can2 only, DEWESoft will find one can-port, but expects it to be connected on Can1 not Can2 connector. As a result you would never see any messages coming in. This effect is because the Vector driver does not report on which port the external connector is present, just how many.

Only needed files from the Vector CD-ROM are the Windows® device drivers, which should be found automatically on first time inserting the CAN-card. Just make sure the CD-ROM is inserted in your CD-Drive before the auto search starts.

All other additional files needed are installed with the DEWESoft Installer 6.2SP2 or higher.

Note: without these additional needed file from the DEWESoft Installer, no Vector CAN will be detected as found in DEWESoft.

Recommended driver version : V5.1.10.0 or higher.

Notes About Special Installers

3.6 Softing CAN installation

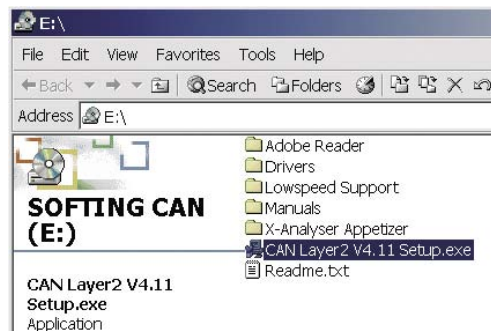
The needed driver tools should come with the CAN adapter from Software on CD-ROM. This drivers should be installed before installation or plug in of the Software CAN devices.

All other additional files needed are installed with the DEWESoft Installer 6.2SP2 or higher.

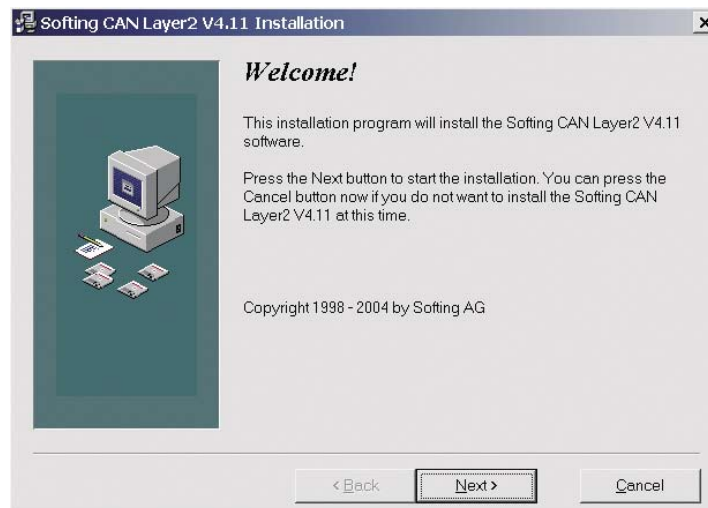
Note: without these additional needed file from the DEWESoft Installer, no Vector CAN will be detected as found in DEWESoft.

Recommended driver version : V4.11 or higher.

- a. Start Softing driver installation by opening the CAN Layer2 V4.11 Setup.exe (or newer)



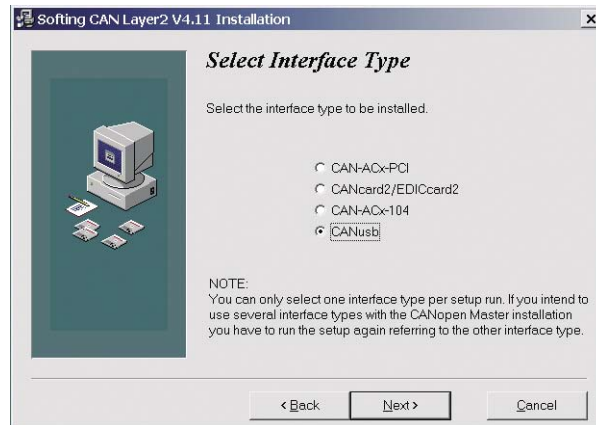
- b. Acknowledge the welcome screen and click on next



Notes About Special Installers

c. Click on next to continue the installation process

Note: it is recommended to use the drive c: as standard target.

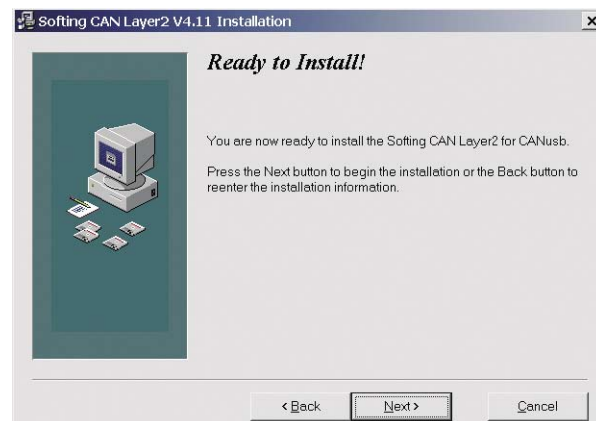


d. Select the correct CAN-Type as you want to install

Note: if more than one CAN-Type is used on one machine, simply repeat this install procedure for each different type.



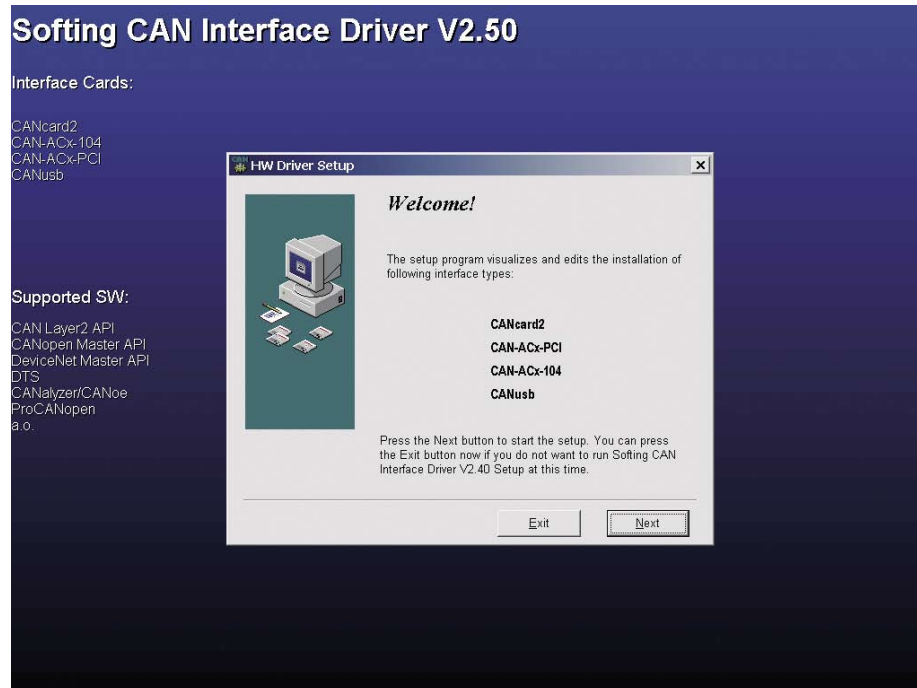
e. Click on next to start the installation



Notes About Special Installers

f. On next here not Exit !

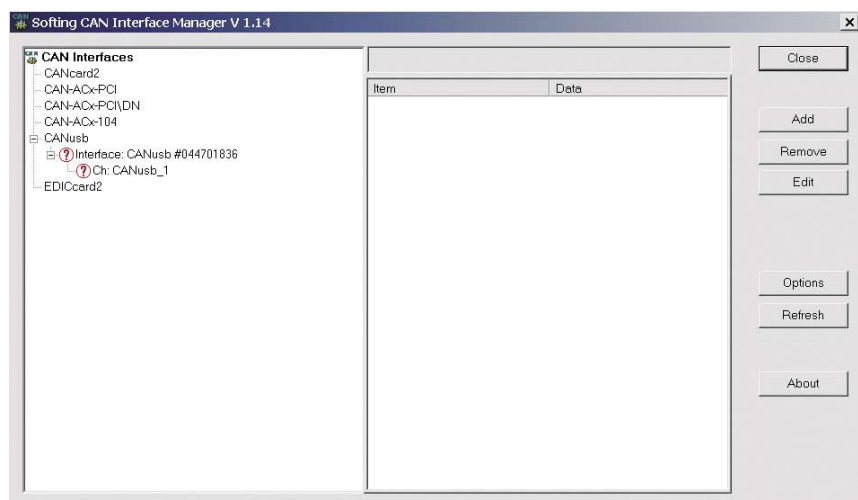
Do not exit at this point, because this funny installer puts only with click on next some more files on the HDD which are needed. Please be aware that it additionally opens also a control panel for Softing CAN-cards, which needs to be closed first to finish the installer.



g. Close the Softing control panel

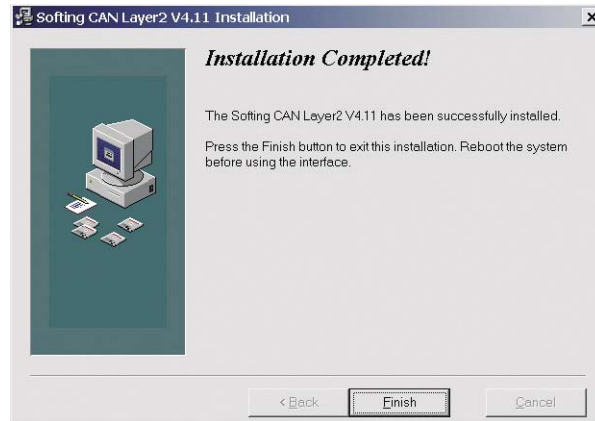
This dialog might be hidden, so please press "ALT + TAB" until you get to this screen.

At this moment you also could attach your Softing CAN-device, and when Windows® is done with the driver installation you can use the Refresh button to see if it was installed correctly. This Softing control panel has no relevance to DEWESoft and is not needed for proper usage in DEWESoft.



Notes About Special Installers

h. Click on finish to finalize the Softing installer



3.7 Where to find the drivers

Windows® device drivers for DEWE-ORION, Spectrum and DataTranslation can be found on the DEWETRON System-CD in the subdirectory \Install\Driver\DaqBoards\.

Windows® device drivers for NI products needs to have NI-CDROM's which can be provided by DEWETRON.

Windows® device drivers for Vector or Softing CAN-cards are coming with the CAN devices and should be used as described in above sections.

The latest complete DEWESoft installer with all example files included can be also found on the DEWETRON System CD in the subdirectory \Install\Software\DEWESoft\DEWESoft6.