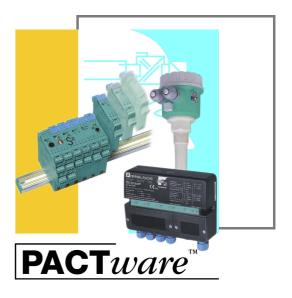
MANUAL

INSTALLATION AND CONFIGURATION DTM COLLECTION CONVENTIONAL INTERFACE





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1 Introduction

This manual guides you through the installation steps necessary to install the software components of the DTM Collection Conventional Interface.

The following software components must be installed:

- Microsoft[®] .Net 2.0 Framework
- FDT framework program PACTwareTM 4.X
- DTM Collection Conventional Interface

Note! If one of the software components is already installed

If one of the software components is already installed on your system, you do not need to reinstall it.

1.1 Used Symbols

This document contains information that you must read to avoid property damage.



Caution!

This symbol indicates a warning about a possible fault.

In case of ignoring the devices and any connected facilities or systems may be interrupted or fail completely.

Informative Symbols

Safety-relevant Symbols



Note!

This symbol brings important information to your attention.



Action

This symbol indicates a paragraph with instructions.



2 Product Description

FDT Concept

The FDT concept (FDT — Field **D**evice **T**ool) created a standard that can be used to integrate devices in various user interfaces (framework applications such as PACTwareTM). The FDT concept enables open and continuous device operation from the control level to the field, regardless of the bus systems used. PACTwareTM is based on the FDT concept. This concept specifies the data exchange between the device-specific driver and the framework application. Every communicating device has a device-specific driver (DTM — **D**evice **T**ype **M**anager) that is integrated in the framework application.

PACTwareTM

PACTwareTM is a manufacturer-independent operating software for devices. In the past, it was often necessary to use multiple manufacturer-specific programs in order to be able to operate different devices. PACTwareTM enables you to operate any number of devices with just this software. To operate devices, PACTwareTM uses a standardized interface between the PACTwareTM framework program and the individual software modules. This interface is called FDT. The software modules for device operation are called DTMs.

Device and Communication DTM

The DTM contains all the data and functions of a device. Every DTM contains its own user interface optimized for the device. The device and communication DTMs can be integrated in any FDT framework program, such as PACTwareTM.

The DTM offers almost no restriction with regard to display and user guidance. This means that all available device functions can be operated according to the user's needs. Operation is supported by graphics. The DTM technology enables consistent operation of a device in all FDT systems.

Essentially, there are two different types of DTM:

Device DTMs

Device DTMs are DTMs for configuring devices such as transmitter power supply units, signal converters, and trip amplifiers.

Communication DTMs

Communication DTMs are required for communication with a device via a point to point connection or via any network structures. The communication DTMs are available for various interfaces, such as an RS 232 interface or USB interface. PACTwareTM contains a communication DTM.

3 Prerequisites

The following prerequisites must be fulfilled for the installation and configuration of the DTM Collection Conventional Interface:

Hardware prerequisites

- IBM[®] PC or compatible PC
- Intel/AMD processor min. 500 MHz
- Working memory: min. 256 MB
- Hard disk space: min. 200 MB
- Graphic resolution 1024 x 768

Software prerequisites

- Operating system: Microsoft[®] Windows XP, Windows Vista, or Windows 7
- Internet Browser: Microsoft[®] Internet Explorer 4.0 or higher
- Unpacked software components for installation
 - Microsoft[®] .Net 2.0 Framework
 - FDT framework program PACTwareTM 4.X
 - DTM Collection Conventional Interface

Note!

For installation with Windows XP, Windows Vista, or Windows 7, administrator rights are required.

Where to find the required software components:



Downloading Microsoft[®] .NET 2.0 Framework from the Internet

- 1. In the Internet browser, enter www.pepperl-fuchs.de.
- In the search field, enter the product name of the software component: Microsoft .NET.
 > The results list is displayed.
- In the **Product** section, click the **Microsoft** .NET link.
 The Internet browser displays the product page.
- 4. In the Software section, click the Microsoft(R) .NET connection software link.
- 5. Load the software to your PC.
- 6. Unzip the ZIP file.
- 7. Save the data to a temporary folder of your choice on your PC.

Тір

Alternatively, the Microsoft $^{\textcircled{R}}$.NET framework package and service packs are available for download from www.microsoft.com/download.



Downloading the FDT Framework Program PACTwareTM 4.X from the Internet

- 1. In the Internet browser, enter www.pepperl-fuchs.de.
- In the search field, enter the product name of the software component: PACTware 4.X.
 > The results list is displayed.
- In the **Product** section, click the **PACTware 4.X** link.
 The Internet browser displays the product page.
- 4. In the Software section, click the PACTware 4.X link.
- 5. Load the software to your PC.
- 6. Unzip the ZIP file.
- 7. Save the data to a temporary folder of your choice on your PC.



Downloading DTM Collection Conventional Interface from the Internet

- 1. In the Internet browser, enter **www.pepperl-fuchs.de**.
- In the search field, enter the product name of the software component: Conventional Interface DTM.
 The results list is displayed.
- In the Product section, click the Conventional Interface DTM link.
 > The Internet browser displays the product page.
- 4. In the **Software** section, click the **DTM Collection Conventional Interface** link.
- 5. Load the software to your PC.
- 6. Unzip the ZIP file.
- 7. Save the data to a temporary folder of your choice on your PC.

4 Installation

4.1 Microsoft[®] .Net 2.0 Framework

As a .NET application, PACTwareTM requires Microsoft[®] .Net 2.0 Framework to run. The .NET application can only be run if the version of Microsoft[®] .Net. Framework with which the application was developed is installed.



Checking the $\operatorname{Microsoft}^{\operatorname{\$}}$.Net Framework Version

Check which Microsoft[®] .Net Framework version is installed on your PC.

- 1. Open the system control on your PC.
- Open the overview of installed programs by double-clicking Software.
 > The overview of installed programs is displayed.

of Kell	nove Programs				1-
1	Currently installed programs:	☐ Show updates	Sort by: Nan	ne	-
ge or ove 'ams	B Look 4.0		Size	0,01 MB	1
	W McAfee Agent		Size	22,48 MB	
-	🕅 McAfee VirusScan Enterprise		Size	32,26 MB	
<u>V</u> ew ams	📃 Media Player EN 10		Size	0,00 MB	
i i	Hicrosoft .NET Framework 2.0 Service Pack 2		Size	183,00 MB	
	Hicrosoft .NET Framework 2.0 Service Pack 2 L	anguage Pack	Size	6,18 MB	į.
move ows	Hicrosoft .NET Framework 3.0 Service Pack 2		Size	221,00 MB	
nents	Hicrosoft .NET Framework 3.0 Service Pack 2 L	anguage Pack	Size	37,43 MB	
2	Hicrosoft .NET Framework 3.5 Language Pack	SP1	Size	36,98 MB	
gram	🕞 Microsoft .NET Framework 3.5 SP1		Size	36,98 MB	
and ults	Canal Microsoft Access Runtime 2010		Size	1.110,00 MB	
	Sa Microsoft Office Language Pack 2010		Size	1.110,00 MB	
	S Microsoft Office Standard 2010		Size	1.110,00 MB	1.

- If Microsoft[®] .Net. Framework 1.0 or 1.1 is installed, you will need to install Microsoft[®] .Net 2.0 Framework. Install Microsoft[®] .Net 2.0 Framework as described in the next section.
- 4. If Microsoft[®] .Net. Framework 3.0 or 3.5 is installed, you do **not** need to install Microsoft[®] .Net 2.0 Framework. These software versions are backward-compatible with version 2.0.
- 5. If Microsoft[®] .Net. Framework 4.0 or higher is installed, you will need to install Microsoft[®] .Net 2.0 Framework. Microsoft[®] .Net. Framework 4.0 is not backward-compatible with version 2.0. Install Microsoft[®] .Net 2.0 Framework as described in the next section.

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Installing Microsoft[®] .Net 2.0 Framework

- 1. Load Microsoft[®] .Net 2.0 Framework to your PC. See chapter 3.
- 2. Unzip the ZIP file.
- 3. Save the data to a temporary folder of your choice on your PC.
- 4. Start the installation by double-clicking the **install.exe** file.
 - > The installation wizard is displayed.

🙀 Microsoft .NET Framework 2.0 Setup	
Welcome to Microsoft .NET Framework 2.0 Setup	
This wizard will guide you through the installation pro	cess.

- 5. Follow the installation instructions and confirm the installation steps.
 - > The window with the license terms is displayed.

End-User License Agreement
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS
Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you do not have a license for the software. You may use a copy of this supplement with each validly licensed copy of the software.
Print
By clicking "I accept the terms of the License Agreement" and proceeding to use the product, I indicate that I have read, understood, and agreed to the terms of the End-User License Agreement.
✓ I accept the terms of the License Agreement

- 6. Agree to the End User License Agreement and confirm your entry with Install.
- 7. Follow the installation instructions and confirm the installation steps.
 - > The installation completion window is displayed.



- 8. Confirm the end of the installation with **OK**.
 - > The $Microsoft^{\textcircled{B}}$.Net 2.0 Framework software is installed.



FDT Framework Program PACTwareTM

Note!

You do not have to uninstall older PACTwareTM versions. Additional information on the PACTwareTM versions can be found at the end of the manual. See chapter 6.

To work, the DTM **always** requires an FDT framework program such as PACTwareTM. The installation sequence of the DTM and the respective FDT framework program is not defined. We recommend the following installation sequence:

- 1. Installation of the FDT framework program PACTwareTM
- 2. Installation of DTM Collection Conventional Interface



Γ

4.2

Note!

If you select the reverse order, you must update the DTM device catalog before you edit a project. See chapter 5.1.



Installing the FDT Framework Program PACTwareTM

- 1. Load the FDT framework program PACTwareTM to your PC. See chapter 3.
- 2. Unzip the ZIP file.
- 3. Save the data to a temporary folder of your choice on your PC.
- 4. Start the installation by double-clicking the **Setup.exe** file.
 - > The Select Language window is displayed.

English	Select Languag	je	x
OK Cancel	English		•
		ОК	Cancel

In the drop-down list, select the installation language and confirm your selection with OK.
 The list of available software is displayed.

👼 PACTware 4.1 SP2	Installer
	Select the components that should be installed with PACTware 4.1 SP2 Microsoft Data Access Components 2.8 (Installed) PACTware 4.1 SP2
Windows XP Sp3 (x86)	Install Close



- 6. Select PACTware 4.X and confirm your selection with Install.
 - > The installation wizard is displayed.

j PACTware 4.1 SP2 Setup	
	Welcome to the PACTware 4.1 SP2 Setup Witzard
	The Setup Wizard will install PACTware 4.1 SP2 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

- 7. Follow the installation instructions and confirm the installation steps.
 - > The window with the license terms is displayed.

End-User License Agreement	
Please read the following license agreement carefully	
END-USER SOFTWARE LICENSE AGREEMENT ("EULA")	-
IMPORTANT NOTE - READ CAREFULLY:	
THIS END-USER SOFTWARE LICENSE AGREEMENT IS A LEGAL AGREEMENT BETWEEN YOU, AS A DESIGNATED SINGLE USER	
OR AS A REPRESENTATIVE IN THE NAME OF A COMPANY OR AN ORGANIZATION, CALLED IN THE FOLLOWING THE SUB-	
LICENSEE AND THE PEPPERL+FUCHS GMBH CALLED IN THE FOLLOWING THE SUB-LICENSER. BY INSTALLING AND/OR	
USING THE SOFTWARE, YOU INDICATE YOUR ACCEPTANCE TO	-
I accept the terms in the License Agreement	
Print Back Next Ca	ancel

8. Agree to the End User License Agreement and confirm your entry with Next.

- 9. Follow the installation instructions and confirm the installation steps.
 - > The installation completion window is displayed.



- 10. Confirm the end of the installation with **OK**.
 - > The FDT framework program PACTwareTM software is installed.

4.3 DTM Collection Conventional Interface

To work, the DTM **always** requires an FDT framework program such as PACTwareTM. The installation sequence of the DTM and the respective FDT framework program is not defined. We recommend the following installation sequence:

- 1. Installation of the FDT framework program PACTwareTM
- 2. Installation of DTM Collection Conventional Interface

) 1

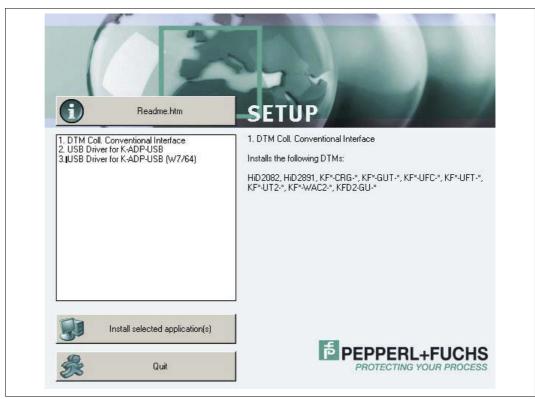
Note!

If you select the reverse order, you must update the DTM device catalog before you edit a project. See chapter 5.1.



Installing DTM Collection Conventional Interface

- 1. Load the DTM Collection Conventional Interface to your PC. See chapter 3.
- 2. Unzip the ZIP file.
- 3. Save the data to a temporary folder of your choice on your PC.
- 4. Start the installation by double-clicking the **autorun.exe** file.
 - > The list of available software is displayed.



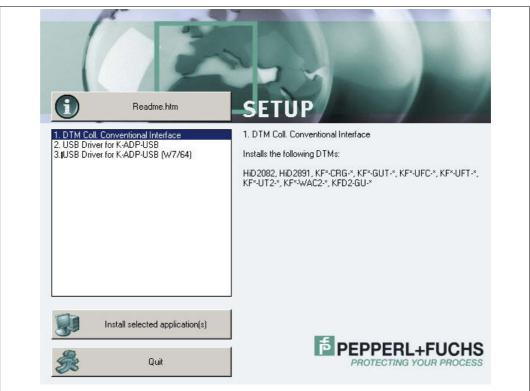


4.3.1 Device DTMs



Installing Device DTMs

1. Select **DTM Coll. Conventional Interface** and confirm your selection with **Install selected application(s)**.



> The Language Selection window is displayed.

Language selection
Please select the language : English OK

In the drop-down list, select the installation language and confirm your selection with OK.
 The Install window is displayed.



- 3. Click Yes to confirm the installation start.
 - > The installation wizard is displayed.



- 4. Follow the installation instructions and confirm the installation steps.
 - > The window with the license terms is displayed.

Please read the following	license agreement carefully	,	
END-USER SOFTWAR	RE LICENSE AGREEM	ENT ("EULA")	-
IMPORTANT NOTE -	- READ CAREFULLY:		
AGREEMENT BETWEN OR AS A REPRESEN AN ORGANIZATION, LICENSEE AND THE FOLLOWING THE SU	OFTWARE LICENSE A EN YOU, AS A DESI NTATIVE IN THE NA . CALLED IN THE F E PEPPERL+FUCHS G UB-LICENSER. BY I ARE, YOU INDICATE	GNATED SINGLE U ME OF A COMPANY OLLOWING THE SU MBH CALLED IN T NSTALLING AND/(JSER 7 OR JB– THE DR
$\overline{\mathbf{V}}$ I accept the terms in the	ne License Agreement		

- 5. Agree to the End User License Agreement and confirm your entry with Next.
 - > The Customer Information window is displayed.

PEPPERL+FUCHS
_
_
Next > Cancel

- 6. Enter the required texts in the **User Name** and **Organization** fields.
- 7. Confirm your entry with **Next**.
 - > The window for selecting the type of setup is displayed.

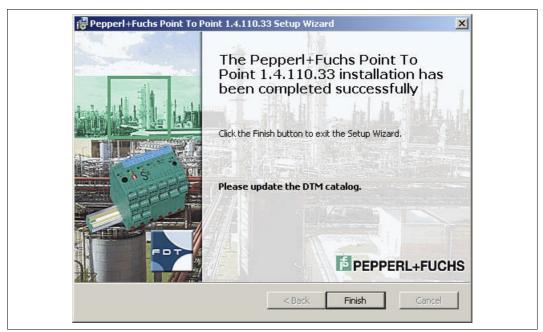
Choose Setup Typ	pe that best suits your needs
	Complete All program features will be installed. (Requires most disk space) Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
	< Back Next > Cancel

8. Select the required setup type.

The **Complete** option installs all DTMs available in the package. The **Custom** option allows individual DTMs to be selected.

Custom Setup Select the way you want features to be installed.	PEPPERL+FUCH
Click on the icons in the tree below to change the way	features will be installed.
PepperI+Fuchs Point To Point 1.4.110	Requires on Disk: 2013KB
Location:	stalled on local hard drive

- 9. Confirm your selection with Next.
- 10. Follow the installation instructions and confirm the installation steps.
 - > The installation completion window is displayed.



- 11. Confirm the end of the installation with **Finish**.
 - > The device DTMs are installed.



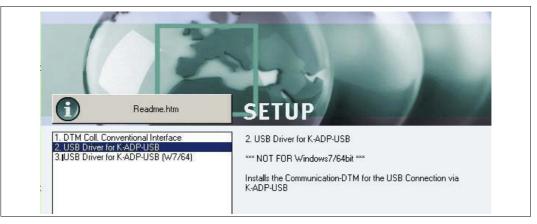
4.3.2 Communication DTMs

Two communication DTMs are available, depending on the Windows operating system:

- Microsoft[®] Windows XP, Windows Vista, and Windows 7/32 Bit operating systems: USB Driver for K-ADP-USB
- Microsoft[®] Windows 7/64 Bit operating system: USB Driver for K-ADP-USB (W7/64)

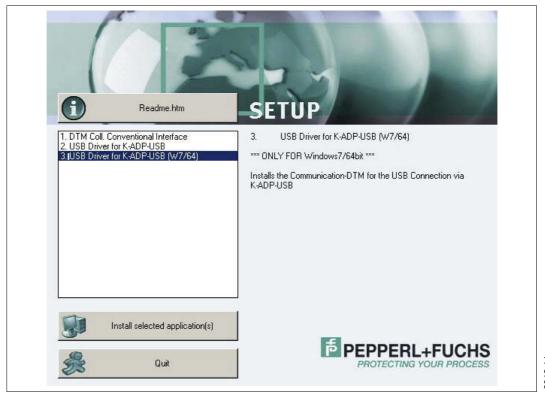
Installing Communication DTMs

- 1. Select the appropriate communication DTM for your operating system.
- 2. Select USB Driver for K-ADP-USB and confirm your selection with Install selected application(s).



or

Select USB Driver for K-ADP-USB (W7/64) and confirm your selection with Install selected application(s).



> The installation wizard is displayed.

Welcome to Pepperl+Fuchs Point To Point USB Driver Setup
The Setup Wizard will install Pepperl+Fuchs Point To Point USB Adapter on your computer
Click Next to continue.

Follow the installation instructions and confirm the installation steps.
 The window with the license terms is displayed.

End User	License Agreement
ą	To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.
	LEGAL NOTICE HEASE READ CAREFULLY
	THE FOLLOWING INFORMATION AND CONDITIONS APPLY TO DOWNLOADING AND/OR USING THIS PACTWARE SOFTWARE
	The company Pepperl+Fuchs GmbH is the Supplier of this software
	I accept this EULA Save As Print I do not accept this EULA

4. Agree to the End User License Agreement and confirm your entry with Next.



- 5. Follow the installation instructions and confirm the installation steps.
 - > The installation completion window is displayed.

	Point To Point USB successfully, The driver is installed on yourd Now you can connect the devic If you have a manual, please re	computer.
	Driver name	Status
TRANSFER OF THE OWNER OF THE OWNE		
FOT	 Pepperl+Fuchs GmbH C Pepperl+Fuchs GmbH C 	
	• repennicus and re	Active

6. Confirm the end of the installation with Finish. > The communication DTM is installed.

Connection between Device and PC

Before you connect the device to the PC, please note the following:

Note!

In the past, the device programming sockets and the K-ADP1 adapter plugs were 3.55 mm x 18.3 mm. There was no additional adapter cable for the adapter.

- Use this adapter for devices with programming sockets that are 3.55 mm x 18.3 mm.
- If you use this adapter with devices with programming sockets that are 3.5 mm x 14 mm, the plug protrudes by approximately 3 mm. The function is not impaired.

The newer devices and the K-ADP1 and K-ADP-USB adapters have programming sockets and plugs that are 3.5 mm x 14 mm. The adapters have an additional adapter cable with plug dimensions 3.55 mm x 18.3 mm.

- Use these adapters for devices with programming sockets that are 3.5 mm x 14 mm.
- If you are using these adapters with devices with programming sockets that are 3.55 mm x 18.3 mm, insert the additional adapter cable.

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Connecting the Device to the PC via the 9-Pin Serial Interface

- 1. Mount the device as described in the system description.
- 2. Connect the device to the power supply as described in the system description.
- 3. Connect the device to the PC via the adapter with serial interface K-ADP1.
 - Connection on the device: front programming socket
 - Connection on the PC: 9-pin serial interface

Connecting the Device to the PC via the USB Interface

- 1. Mount the device as described in the system description.
- 2. Connect the device to the power supply as described in the system description.
- 3. Connect the device to the PC via the adapter with USB interface K-ADP-USB. - Connection on the device: front programming socket
 - Connection on the PC: USB interface
 - > The hardware wizard is displayed. Read the note.

	This wizard helps you install software for:
	K-ADP-USB-P2P Serial Port
\mathbb{Z}^{n}	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	Install the software automatically (Recommended)
	O Install from a list or specific location (Advanced)
	Click Next to continue.

- Follow the installation instructions and confirm the installation steps.
 The installation completion window is displayed.
- 5. Confirm the end of the installation with Finish.> The interface driver is installed.

Ο	
Π	

Note!

The hardware wizard is displayed only on initial installation or for an update.



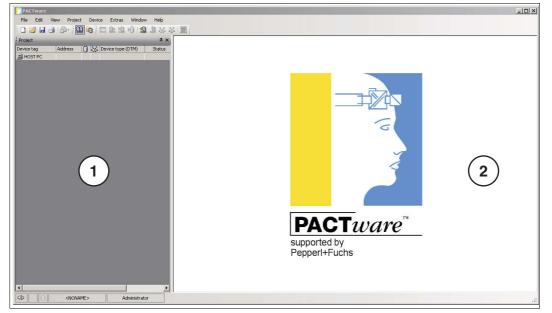
5 Configuration

5.1 Updating the Device Catalog

Starting the Program

Start PACTwareTM by double-clicking the icon

> The PACTwareTM main window is displayed.



- 1 Project range
- 2 Operating range

Changing the Language

1. Change the language using the menu Extras > Options.



> The Options window is displayed.

Language	- Proiect	
English	Restore project layout when loading the project	
Error messages	Auto-connect at project load	
Display error message dialog on device	Open device windows maximized	



- 2. Open the Language drop-down list.
- 3. Select the required language in the drop-down list.

Language	Project
English 🔄	Restore project layout when loading the project
🗆 🗆 English	Auto-connect at project load
Français Deutsch Nederlands	C Open device windows maximized
Nederlands Русский Español	Use memory-optimized project management
PACTware may only be started once	Show progress in own window
	program startup
	open empty project
	C open last project
	C show wizard

4. Confirm your selection with **OK**.



Updating the device catalog

1. Close all open projects using the menu File > Close.

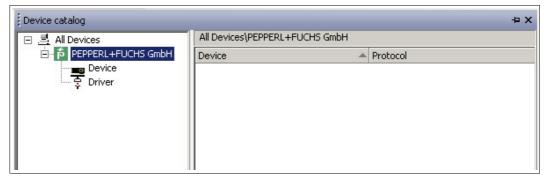
File	Edit	View	Project	Device	Extras	Window	Help
	New			Sti	′g+N	0 1	1 36
2	Open			Str	g+O		ąх
	Open te	mplate				DTM)	Status
	Close						
-	Error					2 FDT	0
	Save		· · · ·	50	rg+S	FDT	0

2. Open the device catalog using the menu **View > Device catalog**.

File Edit	View	Project	Device	Extras	Window	Help
i 🗅 💕 🔒		Toolbars		• 10	0 1	1 36
Project	~	Status bar				д 2
Device tag	<u>,</u>	Project	F2	pe	(DTM)	Status
📕 HOST PC	40	Device catal	og F3			
	1	Plant view				
		Error monito	r			
		Diagnostic So	an.			
		Clipboard				



> The device catalog is displayed.



3. Update the device catalog using the **Update device catalog** button.

Vendor Group Type Protocol		/	
Show unselected devices too	Update device catalog	Info	Add

> The query window is displayed.

PACTwar	e		×
?	Create new P	ACTware devic	ce catalog?
[Yes	No	

- 4. Click **Yes** to confirm the prompt.
 - > The updated device catalog is displayed.

🖃 🚊 All Devices	All Devices\PEPPERL+FUCHS G	imbH
🖃 📅 PEPPERL+FUCHS GmbH	Device	 Protocol
Device	🖡 ED2-UT-* FDT	P2P
Inter	102081 FDT	P2P
	102082 FDT	P2P
	p HiD2891 FDT	P2P
	F KF*-CRG-* FDT	P2P
	F KF*-CRG2-* FDT	P2P
	F KF*-GUT-* FDT	P2P
	F KF*-UFC-* FDT	P2P
	F KF*-UFT-* FDT	P2P
	👘 КF*-UT2-* FDT	P2P
	F KF*-WAC2-* FDT	P2P
	FD2-GU-* FDT	P2P
	👘 KFD2-UT-* FDT	P2P
	1 P2P R5232 FDT	P2P
endor Group Type Protocol		
Show unselected devices too	•	
	Update device catal	og Info Add



Note!

For more information on operating PACTwareTM, see the online help.



5.2 Starting and Saving a Project



Starting a Project

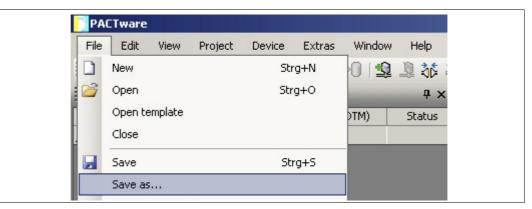
- 1. Start PACTwareTM by double-clicking the icon
 - > The PACTwareTM main window is displayed.
- 2. Start a new project via Create new project.

File Edit	View Proje	Call an established		ndow Help
			ST IT N	
Proje				Ψ×
Device tag	Address	🚺 👬 De	vice type (DTM)) Status
B HOST PC				



Saving a Project

1. Save the project using the menu File > Save as.





Save as					<u>?</u> ×
Save in:	Docu_Inform	ation	•	G 🕫 😕 🛙	
My Recent Documents					
My Documents					
My Computer					
My Network Places	J File name:	Project_UT2			Save
Flaces	Safe as type:	PACTware 4.x	(*.PW4)	•	Cancel

2. Enter a project name and confirm the entry with **Save**.

> The project name is displayed.

File Edit	new Proje	ect Device	Extras	Window	Help
i 🗋 💕 🔒	3 P- 1		1 <u>0</u> 1 <u>0</u>	10	36 1
Project					 х
Project Device tag	Address	102 5520	evice type (-	

0 ∏

Note!

For more information on operating PACTware $^{\mathsf{TM}}$, see the online help.

File Edit	View Projec	t Device	Extras Windo	w Help	
i 🗅 💕 🔒 🕯	🖪 🗗 - 🗓		1 🕸 🕸 Ю 🛯 🗖	Conte	nts
Project				About	1
Device tag	Address	0 36 De	vice type (DTM)	Status	· · ·
📕 HOST PC					

5.3 Configuring the Communication DTM

The device is connected to the PC via the 9-pin serial interface or the USB interface.



Note!

The communication DTM P2P RS232 FDT is required for both connection versions via the 9-pin serial interface and the USB interface. You cannot configure the device DTMs until you have configured the communication DTM.



Starting a Project

- 1. Start PACTwareTM by double-clicking the icon
 - > The PACTwareTM main window is displayed.
- 2. Start a new project via Create new project.

File Edit			Device	Extras	Window	Help
1 🗋 🚰 🖡		- 🔛 🗹	3	₽ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	1 36
Proj						Ψ×
Device tag	Addr	ess 🚺	🖧 De	vice type (DTM)	Status
🔜 HOST PC						

or

1.



Opening a Project

- Start PACTwareTM by double-clicking the icon
- > The PACTwareTM main window is displayed.
- 2. Open an existing project with **Open project**.

File	Edit	View	Project	Device	Extras	Window	Help
	3 🖬	3 6)- I 🛄			01	36 Q
			1.12				д×
Projec							1000
Projec Device	100	Ado	iress	🔒 🦄 De	vice type (DTM)	Statu





Adding a Communication DTM to the Project

- 1. In the project window, select **HOST PC** and then use the right mouse button to open the context menu.
- 2. Select Add device.

File Edit Vie					
	ew Projec	t Device	Extras	Window	Help
i 🗋 💕 🛃 🎒	@- Q	Q 🖓 i 🗆		1	皇禄:
Project					Ψ×
Device tag	Address	🚺 🧦 Der	vice type (DTM)	Status
B HOST PC	~~~	Connect Disconnect Topology Sca	n		
	<u></u>	Add device			

> The list of communication DTMs is displayed.

Device for					×
All Devices					
Device 🔺	Protocol	Vendor	Group	Device Version	FD1
p2P RS232 FDT	P2P	PEPPERL+FUCHS GmbH	FDT	1.1.17 / 2011-06-1	5 1.2
					F
*					
<u> </u>					
				OK Cancel	

- 3. Select the communication DTM P2P RS232 FDT and confirm your selection with **OK**. The communication DTM P2P RS232 FDT is required for both connection versions via the 9-pin serial interface and the USB interface.
 - > The communication DTM is included in the project tree.

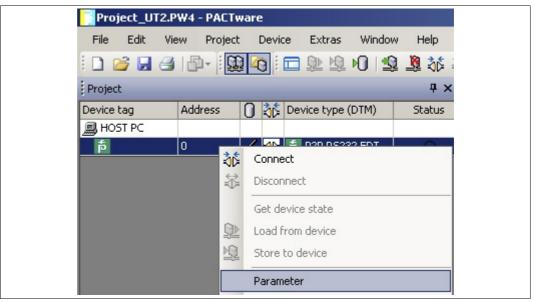
File Edit	View Proje	ect Dev	rice Extras	Window	Help
i 🗋 💕 🛃	3 🗗 - 🗎	10		0	1
Project					Ę,
Device tag	Address	0 3	Device type	(DTM)	Status
📕 HOST PC					
6	0	/ 30	6 P2P R523	32 FDT	0

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Configuring the Communication DTM

- 1. Where necessary, disconnect the PC from the communication DTM. See the "Disconnecting the Communication DTM and PC" section in this chapter.
- 2. In the project window, select **P2P RS232 FDT** and then use the right mouse button to open the context menu.
- 3. Choose Parameter.



> The Parameter window is displayed.

Parameter Language Image			
Label Communication parameters Communication Port Communication Retries	Communication Port: Communication Retries:	COM1 (Communications Port)	.

4. From the **Communication Port** drop-down list, select the desired parameter. You can select communication port USB 1 (K-ADP-USB) only if the K-ADP-USB adapter was connected **before** you started to configure the communication DTM. See chapter 4.4.

Parameter Language Image			
Label	Communication Port: Communication Retries:	COM1 (Communications Port) COM1 (Communications Port) COM3 (Intel(R) Active Management Technology - SOL) COM4 (VCP) USB 1 (K-ADP-USB)	



5. From the Communication Retries drop-down list, select the desired parameter.

-			
parameter			
Language			
Label			
E- 🛱 Communication parameters	Communication Port:	USB 1 (K-ADP-USB)	_
Communication Port	Communication Retries:	3	•
Communication Retries		3	
		4	
		5	
		7	

> The communication DTM is configured.



- Establishing the Connection between the Communication DTM and PC
- 1. In the project window, select **P2P RS232 FDT** and then use the right mouse button to open the context menu.
- 2. Choose Connect.

Project_UT2.F	W4 - PACTw	are			
File Edit Vi	ew Project	Device	Extras W	Vindow	Help
i 🗋 💕 🛃 🛃	₽- I	R i 🗖	D 10 10	1 🗐	💐 🎊 🖗
Project					Ψ×
Device tag	Address	🚺 🧞 De	vice type (DTI	M)	Status
📕 HOST PC					
1	0	Connect	<u>000 0 0000 0</u>		

> The connection is established. The connection status is displayed:

Disconnecting the Communication DTM from the PC

- 1. In the project window, select **P2P RS232 FDT** and then use the right mouse button to open the context menu.
- 2. Choose **Disconnect**.

Project_UT2.	PW4 - PACTwa	are			
File Edit V	iew Project	Device	Extras	Window	Help
i 🗋 💕 🛃 🖨) P+ 😟	li 🗖	<u>)</u>	0 😫	🗕 👌
Project					Ψ×
Device tag	Address (] 🧞 Dev	vice type (I	DTM)	Status
💻 HOST PC					
ŕ	NV.	Connect Disconnect	D7D DC7	92 FNT	

> The connection is disconnected. The status is displayed:

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Saving a Project

Save the project with Save project.

File Edit	View Proje	ct Device	e Extras	Window	Help
i 🗋 💕 🛃 (3 🗗 - 📔	10 1	<u>Q 12</u>	0	10 26
Project		50 B)			₽ >
Device tag	Address		Device type ((DTM)	Status
📕 HOST PC					
f.	0		声 P2P R52	32 FDT	0

о П

Note!

For more information on operating PACTwareTM, see the online help.

File Edit	View Proje	ct Device	Extras Win	dow Help	
i 🗅 💕 🔒	3 12-10		皇壇の日	\$	Contents
Project		S 0.			About
Project Device tag	Address	0 🖧 De	evice type (DTM)	Statu	

5.4 Configuring the Device DTM

Various device DTMs are available for the devices. Select the appropriate device DTM for your device from the device list. You can configure the device only if you have selected the correct device DTM.

Device	Device DTM
ED2-UT-Ex2 ED2-UT-Ex2-2	ED2-UT-* FDT
HiD2081	HiD2081 FDT
HiD2082	HiD2082 FDT
HiD2891	HiD2891 FDT
KFD2-CRG-1.D KFD2-CRG-Ex1.D KFU8-CRG-1.D KFU8-CRG-Ex1 KFU8-CRG-Ex1.D	KF*-CRG-* FDT
KFD2-CRG2-1.D KFD2-CRG2-Ex1.D KFU8-CRG2-1.D KFU8-CRG2-Ex1.D	KF*-CRG2-* FDT
KFD2-GU-1 KFD2-GU-Ex1	KFD2-GU-* FDT
KFD2-GUT-1.D KFD2-GUT-Ex1.D KFU8-GUT-1.D KFU8-GUT-Ex1.D	KF*-GUT-* FDT
KFD2-UFC-1 KFD2-UFC-1.D KFD2-UFC-Ex1 KFD2-UFC-Ex1.D KFU8-UFC-1 KFU8-UFC-1.D KFU8-UFC-Ex1 KFU8-UFC-Ex1 KFU8-UFC-Ex1.D	KF*-UFC-* FDT
KFD2-UFT-2.D KFD2-UFT-Ex2 KFD2-UFT-Ex2.D KFU8-UFT-2.D KFU8-UFT-Ex2 KFU8-UFT-Ex2.D	KF*-UFT-* FDT
KFD2-UT-1 KFD2-UT-1-1 KFD2-UT-Ex1 KFD2-UT-Ex1-1	KFD2-UT-* FDT
KFD2-UT2-1 KFD2-UT2-1-1 KFD2-UT2-2 KFD2-UT2-2-1 KFD2-UT2-Ex1 KFD2-UT2-Ex1-1 KFD2-UT2-Ex2 KFD2-UT2-Ex2	KF*-UT2-* FDT
KFD2-WAC2-1.D KFD2-WAC2-Ex1.D	KF*-WAC2-* FDT

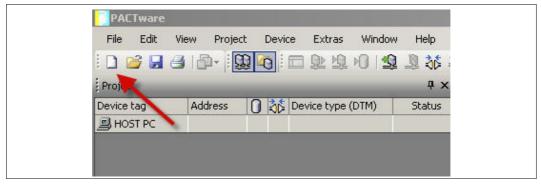
Table 5.1

The configuration of the device is shown using the configuration of the KFD2-UT2-Ex2 temperature converter as an example.



Starting a Project

- 1. Start PACTwareTM by double-clicking the icon
 - > The PACTwareTM main window is displayed.
- 2. Start a new project via Create new project.



or



Opening a Project

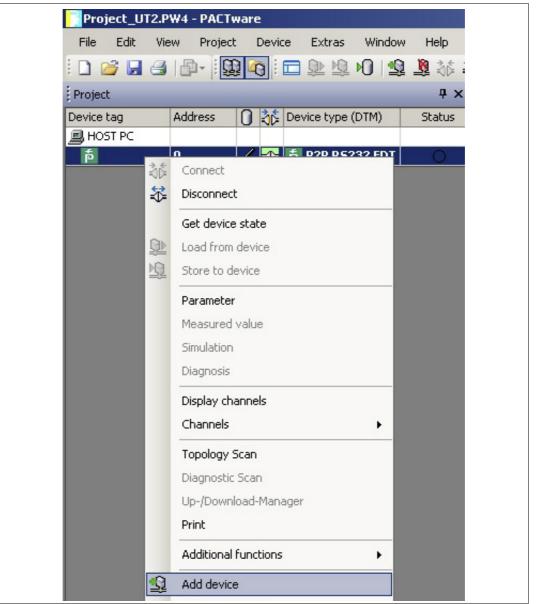
- 1. Start PACTwareTM by double-clicking the icon
 - > The PACTwareTM main window is displayed.
- 2. Open an existing project with **Open project**.

File	Edit	View	Project	Device	Extras	Window	Help
100	3 🖬		- 00		见坦	101	10 10
		Constraint and the second	and a second	Inclusion in the second	CONTRACTOR OF CONTRACTOR		
Projec	-		1			~	- д ×



Adding a Device to the Project

- 1. Add a communication DTM to your project. See chapter 5.3.
- 2. In the project window, select **P2P RSD232 FDT** and then use the right mouse button to open the context menu.
- 3. Select Add device.



> The list of device DTMs is displayed.

Device	A Protocol	Vendor	Group	Device Version	
គំ HiD2891 FDT	P2P	PEPPERL+FUCHS GmbH	Digital input	1.4.110.67 / 2011-	
F KF*-CRG-* FDT	P2P	PEPPERL+FUCHS GmbH	Analog input	1.4.110.67 / 2011-	
f KF*-CRG2-* FDT	P2P	PEPPERL+FUCHS GmbH	Analog input	1.4.110.67 / 2011-	
F KF*-GUT-* FDT	P2P	PEPPERL+FUCHS GmbH	Temperature	1.4.110.67 / 2011-	
F KF*-UFC-* FDT	P2P	PEPPERL+FUCHS GmbH	Digital input	1.4.110.67 / 2011-	
5 KF*-UFT-* FDT	P2P	PEPPERL+FUCHS GmbH	Digital input	1.4.110.67 / 2011-	
ត៍ KF*-UT2-* FDT	P2P	PEPPERL+FUCHS GmbH	Temperature	1.4.110.67 / 2011-	
5 KF*-WAC2-* FDT	P2P	PEPPERL+FUCHS GmbH	Analog input	1.4.110.67 / 2011-	
5 KFD2-GU-* FDT	P2P	PEPPERL+FUCHS GmbH	Temperature	1.4.110.67 / 2011-	
5 KFD2-UT-* FDT	P2P	PEPPERL+FUCHS GmbH	Temperature	1.4.110.67 / 2011-	1
4				•	ſ

- 4. Select the required device DTM and confirm your selection with **OK**. Example: KF*-UT2-*FDT.
 - > The device DTM is included in the project tree.

File Edit View	Project	Dev	/ice	Extras	Window	Help
i 🗅 💕 🛃 🎒 🗗	- i	0		😥 💆 🕨	0 12	🧕 🎎
Project						ąχ
Device tag	Address	0	36	Device type	e (DTM)	Status
📕 HOST PC						
a f	0	1	SD.	p2P RS2	232 FDT	0



Establishing the Connection between the Device and PC

- 1. In the project window, select **KF*-UT2-*FDT** and then use the right mouse button to open the context menu.
- 2. Choose Connect.

Project_UT2.PW4	- PACTwa	re			
File Edit View	Project	Device	Extras	Window	Help
i 🗋 💕 🛃 🎒 🖥)- 💭	li 🗖	D 🕺	1	🧕 🎊 🖉
Project					Ψ×
Device tag	Address	0 36	Device typ	pe (DTM)	Status
💻 HOST PC					
a b	0	/ =>=	樟 P2P R	\$5232 FDT	0
				170 <u>* ENT</u>	<u>_</u>

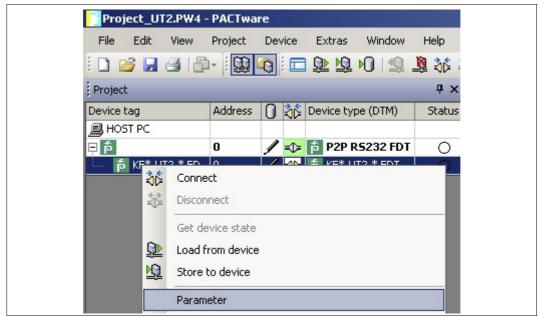
> The connection is established. The connection status is displayed:



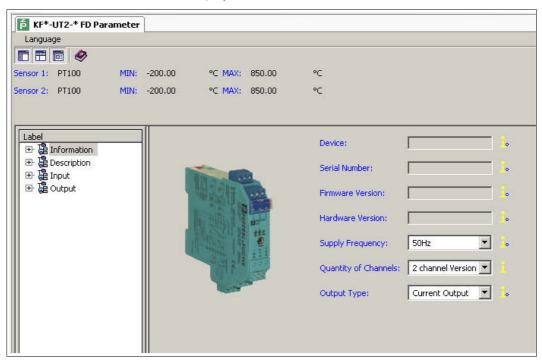


Configuring the Device

- 1. In the project window, select **KF*-UT2-*FDT** and then use the right mouse button to open the context menu.
- 2. Choose Parameter.



> The Parameter window is displayed.





Changing the Language for Parameter Window

- 1. Change the language using the menu Language in the Parameter window.
- 2. Select the required parameter language in the drop-down list.

Б́ КF*-UT2-	* FD Para	meter							
Language									
English	٨								
German French	0	MIN:	-200.00	°C MAX:	850.00	°C			
Italian	0	MIN:	-200.00	°C MAX:	850.00	°C			
Spanish									
Label	nation					Device:			•
⊡ 🔁 Descri ⊡ 🔁 🍓 Input					b .	Serial Number:			•
🕀 🛱 Outpu	lt			Mar Solution		Firmware Version:			•
					0-	Hardware Version:		_	•
				the second		Supply Frequency:	50Hz	-	•
				17 A 19		Quantity of Channels:	2 channel Version	J	
						Output Type:	Current Output	-	•

> The Language for Parameter window is changed.



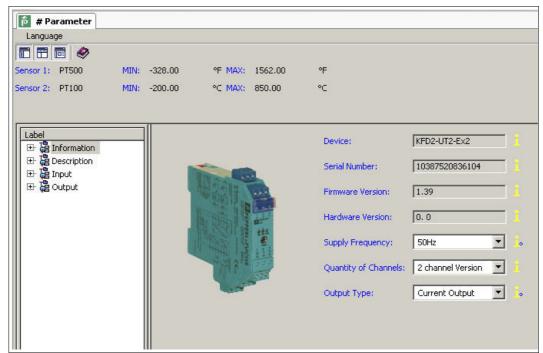
Loading Device Data from the Device

- 1. In the project window, select **KF*-UT2-*FDT** and then use the right mouse button to open the context menu.
- 2. To transfer device data from the device to the PC, choose Load from device.

Project_UT	2.P₩4 - P	ACTware				
File Edit	View Pi	roject D	evice	Extras	Window	Help
i 🗋 💕 🖬 e	3 🗗 -] : 🗖	٩ 🕸	012.	1
Project						Ψ×
Device tag	A	ddress () 👬	Device typ	pe (DTM)	Status
📕 HOST PC						
a 📮	0	1	/ =>=	樟 P2P R	S232 FDT	0
► KF*-	Connect Disconnect	ect		12 VE*_1	IT?_* FNT	

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> The device data is displayed.



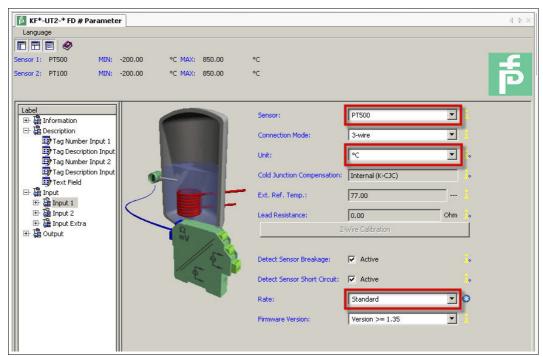


Editing Device Data

- 1. In the project tree, choose the entry that you want to edit. Example: Input 1.
 - > The device data for Input 1 is displayed.

KF*-UT2-* FD # Paramete	r					4 Þ.×
Language						
and the second sec	-328.00 °F MAX:		°F			
Sensor 2: PT100 MIN:	-200.00 °C MAX:	850.00	°C			P
Label 표 ট Information		5	Sensor:	PT100	•	
Description Tag Number Input 1			Connection Mode:	3-wire	• <u>i</u>	
Tag Description Input			Unit:	۴	• <u>i</u>	
Tag Description Input	0		Cold Junction Compensation:	Internal (K-CJC)		
⊡ È Input ⊞ È Input 1			Ext. Ref. Temp.:	77.00	<u>1</u>	
田 福 Input 1 田 福 Input 2 田 福 Input Extra			Lead Resistance:	0.00	Ohm 🔓	
⊞ @ Output	D mV		2-	Wire Calibration		
		E	Detect Sensor Breakage:	🔽 Active	<u>.</u>	
			Detect Sensor Short Circuit:	Active		
			Rate:	Slow	•	
			Firmware Version:	Version >= 1.35	•	

2. Edit the device data. For more information about editing the device data, see the KFD2-UT2-(Ex)*(-1) Temperature Converter Manual.



- 3. Select the required parameter from the drop-down list.
- 4. Confirm your selection with **Return**.



Storing Device Data on the Device

- 1. In the project window, select **KF*-UT2-*FDT** and then use the right mouse button to open the context menu.
- 2. To transfer device data from the PC to the device, choose **Store to device**.

File Edit View Project Device Extras Window Help Project Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect	Project_UT2.	.PW4 - PACTwar	e			
Project 4 ddress Device tag Address Image: HOST PC Image: Poper Scale for the form device form device for the form device form device form device for the form device form device	File Edit V	/iew Project	Device	Extras	Window	Help
Device tag Address Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect Image: Connect <t< td=""><th>i 🗋 💕 🛃 🖨</th><td>ا الله الله الله الله الله الله الله ال</td><td>0</td><td><u>0</u> 🖞</td><td>10 🗐 🧕</td><td>1 36 5</td></t<>	i 🗋 💕 🛃 🖨	ا الله الله الله الله الله الله الله ال	0	<u>0</u> 🖞	10 🗐 🧕	1 36 5
Image: Host PC Image: Disconnect Image: Disconnect Image: Disconnect </td <th>Project</th> <td></td> <td></td> <td></td> <td></td> <td>Ψ×</td>	Project					Ψ×
□ ● ● ● ● P2P R5232 FDT ○ □ ● KF*-UT2-* FD 0 - - ● KF*-UT2-* FDT ○ ○ ● KF*-UT2-* FD 0 - - ● KF*-UT2-* FDT ○ ○ ○ Isconnect ○ ○ ○ ○ ○ ○ ○ Get device state ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ <th>Device tag</th> <td>Address</td> <td>0 36</td> <td>Device t</td> <td>ype (DTM)</td> <td>Status</td>	Device tag	Address	0 36	Device t	ype (DTM)	Status
Image: Second state Image: Second sta	🚊 HOST PC					
Image: Connect Image:	하 딕	0	/ 🖈	🏚 P2P	RS232 FDT	0
Disconnect Get device state Load from device		2_* FN 0		# KE*	-HT2-* FDT	0
Get device state	30	Connect				
Load from device	*	Disconnect				
		Get device state				
Store to device	<u>Q</u>	Load from device	Э			
	<u>R</u>	Store to device				

> The device is now configured.



Disconnecting Devices from PCs

- 1. In the project window, select **KF*-UT2-*FDT** and then use the right mouse button to open the context menu.
- 2. Choose Disconnect.

Project_UT2.PW	4 - PACTware	2			
File Edit View	Project	Device	Extras	Window	Help
i 🗋 💕 🛃 🎒	P- 🔛 🕯		<u>)</u>	▶0 ⊴ .	🗕 🎎 🕸
Project					Ψ×
Device tag	Address	0 36	Device t	ype (DTM)	Status
💻 HOST PC					
a 🗗	0	/ 🖈	樟 P2P	R5232 FD	r O
24	l o Ionnect		± νc*	1172 * FD1	0
💱 (isconnect				

- > The connection is disconnected. The status is displayed:
- 3. Disconnect the device from the PC by removing the adapter cable from the device or PC.



Ť

Saving a Project

Save the project with Save project.

File Edit View	Project	Device	Extras	Window	Help
i 🗅 🧉 📕 🛃 🗗	-	0	🗊 😿	₽ 🕸 .	💐 🎎 🖏
Project					Ψ×
					1.000
Device tag	Address	0 3	Device t	ype (DTM)	Status
	Address	0 3	5 Device t	ype (DTM)	
Device tag	Address		200	ype (DTM) R5232 FDT	

Note!

For more information on operating PACTwareTM, see the online help.

File Edit	View Proje	ct Devic	e Extras Windo:	w Help	
i 🗅 💕 🔒 🛛	3 12-1	10	🗆 🕸 煌 🛛 🛯) Co	ontents
Project				At	pout
Project Device tag	Address	0 36	Device type (DTM)	Status	

6

Additional Information on PACTwareTM

Release Information

PACTware TM version	Description
PACTware 2.4, Service Pack 4	Latest version for Microsoft [®] Windows 98 operating system Frozen status, no further support, replaced by version 3.0
PACTware 3.0, Service Pack 5	Latest version for Microsoft [®] Windows NT 4.0 operating system Frozen status, no further support, replaced by version 3.5
PACTware 3.5	Frozen status, no further support, replaced by version 3.6
PACTware 3.6, Service Pack 1	For Microsoft [®] Windows Vista operating system Frozen status, no further support, replaced by version 4.0
PACTware 4.1, Service Pack 2	Current version

Table 6.1

Compatibility of PACTware[™] with Other Software Components

PACTware TM version		PW 2.4	PW 3.0	PW 3.5	PW3.6	PW 4.1
Release		2002	2004	2007	2008	2010
Microsoft [®] operating system	Windows 98	Х				
	Windows NT 4.0	Х	Х	Х		
	Windows 2000	Х	Х	Х	Х	
	Windows XP	Х	Х	Х	Х	Х
	Windows Vista				Х	Х
	Windows 7 32 Bit and 64 Bit					Х
	Windows Server 2008 32 Bit and 64 Bit					Х
Interface	IDL	Х	Х			
	FDT 1.2	Х	Х	Х	Х	Х
	FDT 1.2.1			Х	Х	Х
Microsoft [®] technology	СОМ	Х				
	.Net 1.1		Х	Х	Х	
	.Net 2.0					Х
Possible parallel operation	PW 2.4		Х	Х	Х	
	PW 3.0	Х		Х	Х	Х
	PW 3.5	Х	Х		-	Х
	PW 3.6	Х	Х	-		Х
	PW 4.1	Х	Х	Х	Х	
		1	8		8	

Table 6.2

Compatibility of PACTwareTM Functions

PACTware TM version			PW 2.4	PW 3.0	PW 3.5	PW3.6	PW 4.1
Project and password	Saving a project	PW 2.4	Х				
compatibility		PW 3.0		Х			
		PW 3.5			Х		
		PW 3.6				Х	 I
		PW 4.1					Х
	Loading a project	PW 2.4	Х	Х	Х	Х	Х
		PW 3.0		Х	Х	Х	Х
		PW 3.5			Х	Х	Х
		PW3.6				Х	Х
		PW 4.1					Х
	Keep passwords	PW 2.4	Х	Х	Х	Х	Х
		PW 3.0		Х	Х	Х	Х
		PW 3.5			Х	Х	Х
		PW 3.6				Х	Х
		PW 4.1					Х
Loading a project	Tabs				Х	Х	Х
	HART scan addin			Х	Х	Х	Х
	Debug monitor				Х	Х	Х
	Profile				Х	Х	Х
	TCI					(X)	Х
	Plant view				Х	Х	Х
	Diagnostic scan (N	NE107)					Х
	Upload and downl	oad manager				Х	Х
	Topology scan						Х
	Project wizard						Х

Table 6.3

Supported Languages

PACTware TM version		PW 3.0	PW 3.5	PW3.6	PW 4.1
Application languages	German	Х	Х	Х	Х
	English	Х	Х	Х	Х
	French	Х	Х	Х	Х
	Spain	Х	Х	Х	Х
	Russian	Х	Х	Х	Х
	Chinese				Х
	Dutch				Х

Table 6.4

Prerequisites

Downloading DTM Collection Conventional Interface from the Internet7
Downloading the FDT Framework Program PACTware TM 4.X from the Internet 7
Downloading Microsoft [®] .NET 2.0 Framework from the Internet $\ldots \ldots \ldots 6$
Installation
Checking the Microsoft [®] .Net Framework Version
Connecting the Device to the PC via the 9-Pin Serial Interface
Connecting the Device to the PC via the USB Interface
Installing Communication DTMs
Installing Device DTMs14
Installing DTM Collection Conventional Interface
Installing the FDT Framework Program PACTware TM
Installing Microsoft [®] .Net 2.0 Framework9
Configuration
Adding a Communication DTM to the Project
Adding a Device to the Project
Changing the Language
Configuring the Communication DTM29
Configuring the Device
Disconnecting the Communication DTM from the PC
Disconnecting Devices from PCs40
Editing Device Data
Establishing the Connection between the Communication DTM and PC30
Establishing the Connection between the Device and PC
Loading Device Data from the Device
Opening a Project
Saving a Project
Storing Device Data on the Device
Starting the Program
Starting a Project
Updating the device catalog

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