Operating Instructions

Software for adjustment of communication-capable sensors and controllers

PACTware/DTM Collection 10/2023

Installation, first steps

Document ID: 28243

VEGA

Contents

28243-EN-230814

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1 About this document

1.1 Function

This operating instructions manual provides all the information you need for installation and commissioning. Please read this information before setting up the instrument and keep this manual accessible in the immediate vicinity of the device.

1.2 Target group

This operating instructions manual is directed to trained personnel. The contents of this manual must be made available to the qualified personnel and implemented.

1.3 Symbols used

Document ID
This symbol on the front page of this instruction refers to the Document ID. By entering the Document ID on www.vega.com you will reach the document download.

Information, tip, note
This symbol indicates helpful additional information.

Caution: If this warning is ignored, faults or malfunctions can result.

Warning: If this warning is ignored, injury to persons and/or serious damage to the instrument can result.

Danger: If this warning is ignored, serious injury to persons and/or destruction of the instrument can result.

Ex applications
This symbol indicates special instructions for Ex applications.

SIL applications
This symbol indicates instructions for functional safety which must be taken into account particularly for safety-relevant applications.

- **List**
  The dot set in front indicates a list with no implied sequence.

→ **Action**
This arrow indicates a single action.

1 **Sequence of actions**
Numbers set in front indicate successive steps in a procedure.

2 For your safety

2.1 Authorised personnel

All operations described in this documentation must be carried out only by trained and authorized personnel.

2.2 Appropriate use

PACTware (Process Automation Configuration Tool) is a manufacturer and fieldbus-independent software for adjustment of all types of field instruments. The corresponding VEGA instruments can be adjusted with the DTMs (Device Type Manager) supplied by VEGA.

2.3 Warning about incorrect use

Inappropriate or incorrect use of an instrument adjusted with PACTware can give rise to application-specific hazards , e.g. vessel overfill or damage to system components through incorrect mounting or adjustment. Thus damage to property, to persons or environmental contamination can be caused.

2.4 General safety instructions

Installation and use of the software are carried out at your own risk. We do not accept liability for consequential damage.

2.5 Environmental instructions

Protection of the environment is one of our most important duties. That is why we have introduced an environment management system with the goal of continuously improving company environmental protection. The environment management system is certified according to DIN EN ISO 14001.

Help us to meet with these requirements.

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3 Product description

3.1 Configuration

Scope of delivery

The scope of delivery encompasses:

- DTM Collection:
  - Microsoft .NET Framework
  - The current PACTware version
  - All currently available VEGA DTMs
  - HART protocol driver from Codewrights GmbH
  - Generic HART-DTM from ICS GmbH
  - Softing Profibus DTM
- Operating Instructions Installation, first steps

3.2 What is PACTware/FDT/DTM?

PACTware

PACTware (Process Automation Configuration Tool) is manufacturer and fieldbus-independent software for adjustment of all types of field instruments. The DTMs (Device Type Manager) of the respective field device manufacturers are integrated into this open, freely available supporting program via the interface specification FDT 1.21/2.0/3.0. To adjust a field device, a DTM corresponding to the instrument type is always required (this DTM is developed and sold by the respective field device manufacturer).

FDT

FDT (Field Device Tool) is a standardised interface description that describes the interaction between DTM and frame application, e.g. PACTware. FDT controls the data exchange between the different DTMs and the supporting program.

DTM

The DTM (Device Type Manager) is the actual adjustment module for sensors and field components. It contains all instrument-specific data and functions of a sensor type and delivers all graphic elements and dialogues for adjustment. A DTM is not a stand-alone, executable software but requires a supporting program, like PACTware, from which it can run.

DTM Collection

The VEGA DTM Collection, a software package comprising PACTware with VEGA-DTM as well as various standard communication DTMs, is the operating software for all currently available, communicable VEGA sensors. In addition, all communicable control devices of the VEGAMET series as well as all mobile radio units of the PLICSMOBILE series can be operated fully with the appropriate DTM.

A Bluetooth driver enables the wireless communication with Bluetooth-capable VEGA instruments such as the display and adjustment module PLICSCOM. For PCs without an integrated Bluetooth module, a VEGA Bluetooth USB adapter is available.

There is also complete support for parameter adjustment of VEGA sensors with Modbus extensions via a USB connection. For parameter adjustment via Modbus there is also a Modbus-CommDTM included in the package.

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3.3 VEGA-DTM

All functions for a complete setup are included in the VEGA DTMs. An assistant for easy project setup simplifies the adjustment considerably.

Additionally an extended printing function for complete device documentation as well as a tank calculation program is included. Furthermore, the " *DataViewer*" software is available. This serves for convenient display and analysis of all information saved by the service recording.

The DTM Collection can be downloaded free of charge from our homepage.

The user agreements allow you to copy a VEGA DTM as often as you like and to use it on as many computers as you like. The complete End User License Agreement (EULA) can be found in the appendix of this manual.

VEGA offers individual DTMs for more than 200 instrument types, all of them are installed via a common setup program.

3.4 Storage and transport

Packaging

The packaging of the DVD consists of easily separable monomaterials. These materials are environment friendly and recyclable. Dispose of the packaging material via specialised recycling companies.

4 Software installation

4.1 System requirements

You can find the system requirements in the annex at the end of this manual.

Note:
To install the software you will need administrator rights. After the installation, a Windows restart is necessary to actually complete the installation. For that reason, the subsequent Windows login must be carried out with the same user name the installation was performed under.

4.2 Installation of PACTware and DTM

1. Before installation, all running programs should be exited.
2. With the download of the DTM Collection you will receive a compressed ZIP file. After extracting it, you can start the installation by double-clicking on the file " *autorun.exe*".

   In the opening installation assistant you now select the requested language. This selection can be modified after installation.

   In the next window, you select " *Standard*" or " *User-defined*". With the standard installation, only the components required for VEGA instruments are installed. If " *User-defined*" is selected, the available DTM packages can be selected individually in the following window.

   Start the actual installation process via the button " *Installation*".

Note:
For the installation of PACTware, Microsoft .NET Framework is a prerequisite. The installation assistant checks automatically if .NET, PACTware and the VEGA plics DTMs are already installed. If that is the case, this will be marked in the respective window and the programs will not be installed again.

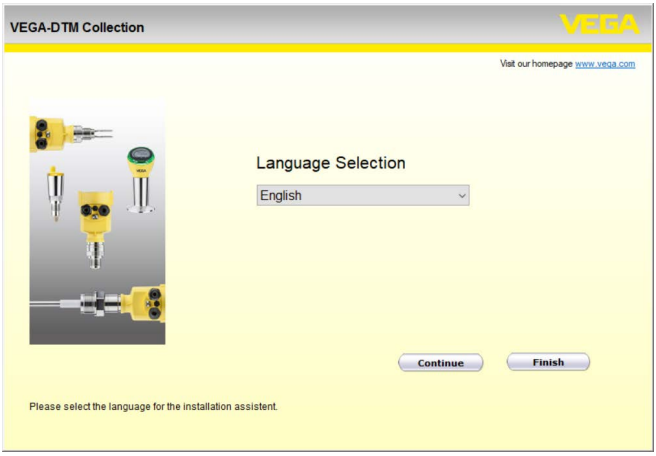

Fig. 1: Installation assistant - Language selection

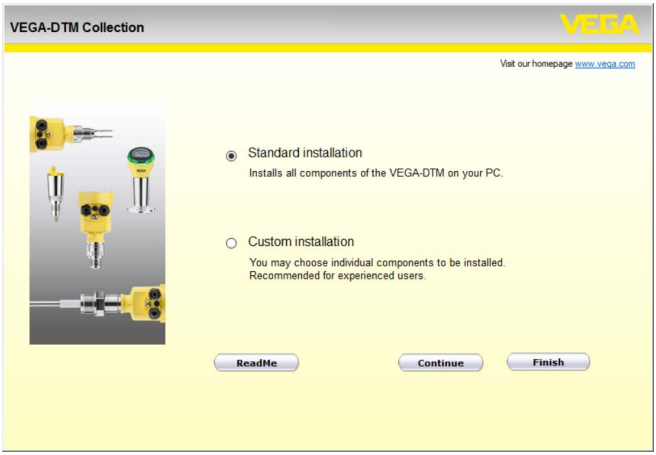

Fig. 2: Installation assistant - Standard/user-defined

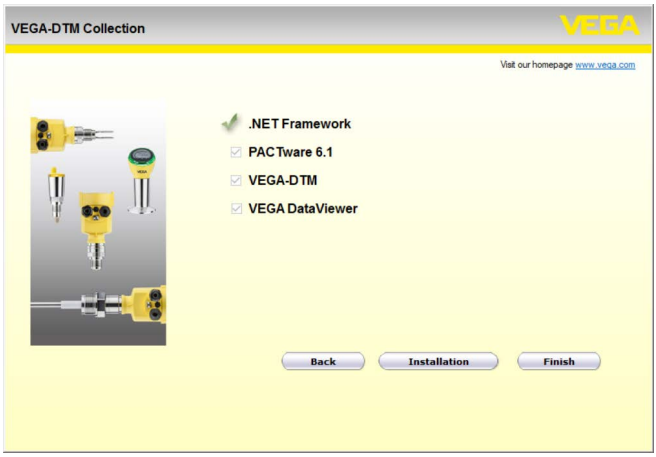

Fig. 3: Installation assistant - Component selection

5 Adjustment

5.1 Start PACTware

When you start PACTware, the first thing that appears is the home screen. In the standard setting, no entry of user name and password is required. If access protection or different user rights are desired, an administrator password must be assigned via the icon " *Settings*" in the " *User administration*". You then have the option of selecting various users with different rights and providing them with a corresponding password.

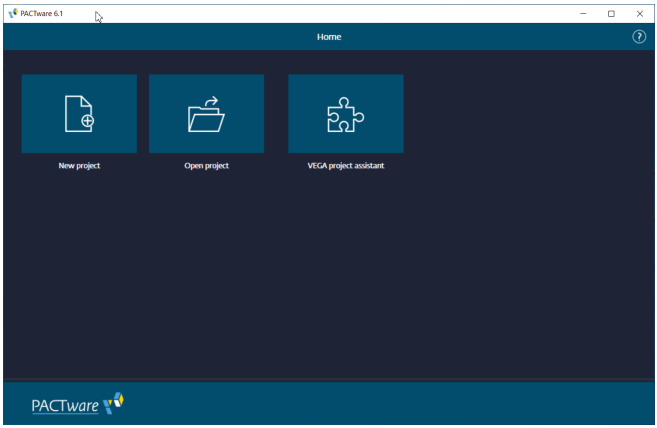

Fig. 4: PACTware Homescreen

Information:
To ensure that all instrument functions are supported, you should always use the latest DTM Collection. Furthermore, not all of the described functions are always included in older firmware versions. For many instruments, the latest instrument software can be downloaded from our homepage. The transfer of the instrument software is carried out via PACTware. A description of the update procedure is also available in the Internet.

5.2 Create a project

Starting point for the adjustment of all types of field devices is the partial or complete imaging of the device network in a PACTware project. This device network can be created automatically or manually and is displayed in the project window.

Create a project automatically

The connection to the desired device is established via the manufacturer-specific extension module " *VEGA project assistant*". It is part of each VEGA DTM installation package and is installed automatically. By means of the assistant, the connected instruments are identified automatically and integrated into the PACTware project. For this, only an online connection to the respective instruments is necessary.

The " *VEGA project assistant*" is directly accessible via the home screen. After opening it, the desired interface for the automatic generation of the project must be selected first. After selecting the button " *Start scan*" the device search starts and all found devices are listed after a short time. After selecting the desired device, it is automatically transferred to the project window.

You can find further information on how to use the VEGA project assistant in the corresponding online help. The online help can be opened directly from the window " *VEGA project assistant*".

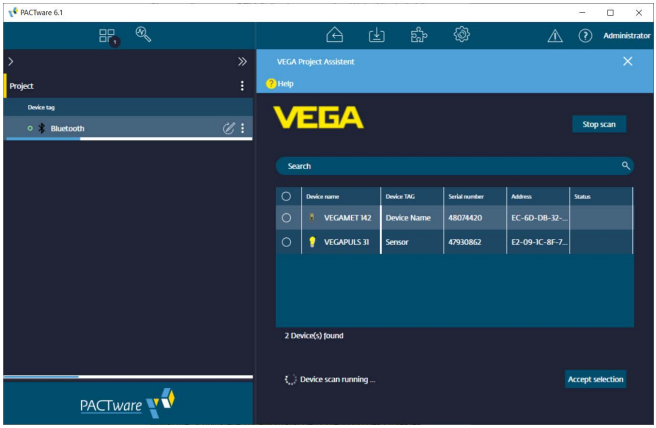

Fig. 5: Project assistant

Create a project manually

Even if the devices to be parameterised are not yet available or connected, the project can still be created manually (offline operation). If you go to " *New project*" via the home screen, the available interface DTMs are displayed in the device catalogue. After selecting the desired interface, the corresponding DTM is automatically transferred to the project window and all available device DTMs for this interface are displayed in the device catalogue. You can now select the device DTM that matches your device and transfer it to the project window.

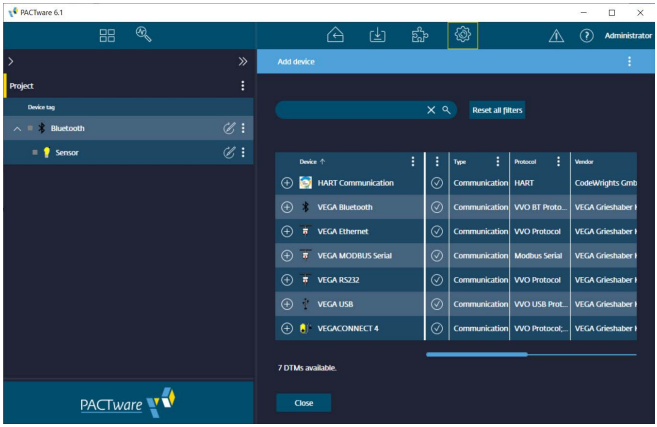

Fig. 6: Create a project manually

5.3 Project examples

Project creation for a VEGA sensor

Connection of sensor via VEGACONNECT

The following example shows a typical project containing a sensor connected e.g. to a PLC. We recommend using the " *VEGA project assistant*" as this considerably facilitates project creation and helps avoid errors. All necessary components are found automatically and integrated in the project.

In case the planning is nevertheless carried out manually, e.g. when creating an offline project, the following DTMs must be added to the project tree:

1. After you have selected " *New project*" on the home screen, all interface options are displayed in the device catalogue. Select the " *VEGACONNECT 4*" DTM, it will be automatically transferred to the project window. At the same time, a list of all possible devices which can be addressed via VEGACONNECT appears in the device catalogue.
2. Select the desired device in the list (in this example a VEGAPULS 6X) and transfer it to the project window. You are asked for " *HART*" or " *I2C*" depending on the connection. If VEGACONNECT is connected directly to the sensor, select type " *I2C*". When connecting via the 4 … 20 mA cable, type " *HART*" must be selected.
3. Now open the DTM by double-clicking on the sensor in the project window and make your desired settings, see chapter " *Parameter adjustment*". If you cannot transfer your settings to the sensor immediately, do not forget to save the project in order to transfer it to the sensor at a later time.

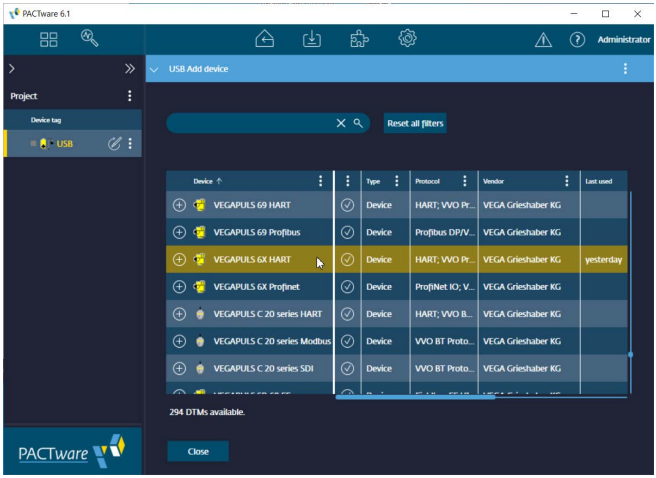

Fig. 7: Project with VEGAPULS

Project generation, sensor via Bluetooth communication

Sensor via Bluetooth

The following example shows a typical project of a sensor connected through the integrated Bluetooth module.

For communication with the sensor, a Bluetooth module (Bluetooth LE) integrated in the PC can be used. A Bluetooth USB-adapter is also available as an alternative.

We recommend, using the " *VEGA project assistant*", this facilitates the project generation considerably and mistakes can be avoided. All involved components will be found automatically and integrated in the project.

In case the planning is nevertheless carried out manually, e.g. when creating an offline project, the following DTMs must be added to the project tree:

1. After you have selected " *New project*" on the home screen, all interface options are displayed in the device catalogue. Select the " *VEGA Bluetooth*" DTM, it will be automatically transferred to the project window. At the same time, a list of all possible devices which can be addressed via Bluetooth appears in the device catalogue.
2. Select the desired device in the list (in this example a VEGAPULS 42) and transfer it to the project window.
3. Now open the DTM by double-clicking on the sensor in the project window and make your desired settings, see chapter " *Parameter adjustment*". If you cannot transfer your settings to the sensor immediately, do not forget to save the project in order to transfer it to the sensor at a later time.
4. If an online connection is to be established to the sensor, its Bluetooth MAC address must be known and stored in the Bluetooth DTM. To do this, right-click on the Bluetooth DTM in

the project tree and select " *Additional functions - Change DTM addresses*". In the following window you can enter and save the Bluetooth MAC address.

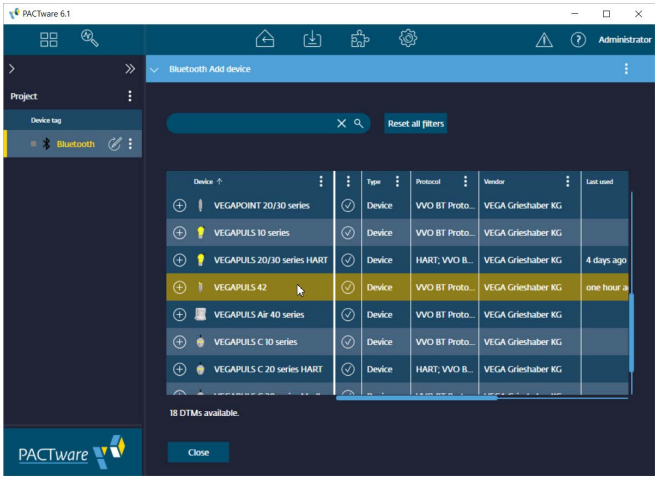

Fig. 8: Project, sensor via Bluetooth

Project creation, VEGAMET 391 with sensor

Connection VEGAMET 391 via USB

The following example shows a typical project containing a sensor connected to a VEGAMET 391. Communication with VEGAMET 391 is carried out in this example via USB. We recommend using the " *VEGA project assistant*" as this considerably facilitates project creation and helps avoid errors. All participating components are found automatically and integrated into the project.

In case the planning is nevertheless carried out manually, e.g. when creating an offline project, the following DTMs must be added to the project tree:

1. After you have selected " *New project*" on the home screen, all interface options are displayed in the device catalogue. Select the " *VEGA USB*" DTM, it will be automatically transferred to the project window. At the same time, a list of all possible devices which can be addressed directly via USB appears in the device catalogue.
2. Select the desired device in the list (in this example a VEGAMET 391) and transfer it to the project window. Click on the VEGAMET 391 in the project window so that all sensors that can be connected to the VEGAMET are listed in the device catalogue.
3. Select the desired device in the list (in this example a VEGAPULS WL 61 HART) and transfer it to the project window.
4. Now open the DTM by double-clicking on the VEGAMET or the sensor in the project window and make your desired settings for both devices, see chapter " *Parameter adjustment*". If you cannot

transfer your settings to the sensor immediately, do not forget to save the project in order to transfer it to the sensor at a later time.

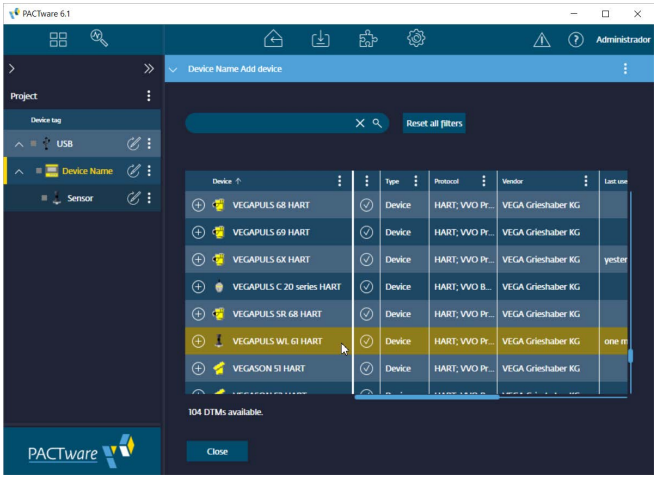

Fig. 9: Project VEGAMET 391 USB with VEGAPULS

Project creation, VEGAMET 624 with sensor

Connection, VEGAMET 624 via Ethernet

The following example shows a typical project containing a sensor connected to a VEGAMET 624. Communication with VEGAMET 624 is carried out in this example via network and Ethernet. We recommend using the " *VEGA project assistant*" as this considerably facilitates project creation and helps avoid errors. All participating components are found automatically and integrated into the project.

In case the planning is nevertheless carried out manually, e.g. when creating an offline project, the following DTMs must be added to the project tree:

1. After you have selected " *New project*" on the home screen, all interface options are displayed in the device catalogue. Select the " *VEGA Ethernet*" DTM, it will be automatically transferred to the project window. At the same time, a list of all possible devices which can be addressed directly via Ethernet network appears in the device catalogue.
2. Select the desired device in the list (in this example a VEGAMET 624) and transfer it to the project window. Click on the VEGAMET 624 in the project window so that all sensors that can be connected to the VEGAMET are listed in the device catalogue.
3. Select the desired device in the list (in this example a VEGAPULS C20 HART) and transfer it to the project window.
4. Select the " *VEGA-Ethernet*" DTM in the project tree and select via the right mouse key the menu item " *Additional functions - Change DTM addresses*". Enter in the field " *New address*" the IP address or the Host name the VEGAMET should get later on in real operation.

5. Now open the DTM by double-clicking on the VEGAMET or the sensor in the project window and make your desired settings for both devices, see chapter " *Parameter adjustment*". If you cannot transfer your settings to the sensor immediately, do not forget to save the project in order to transfer it to the sensor at a later time.

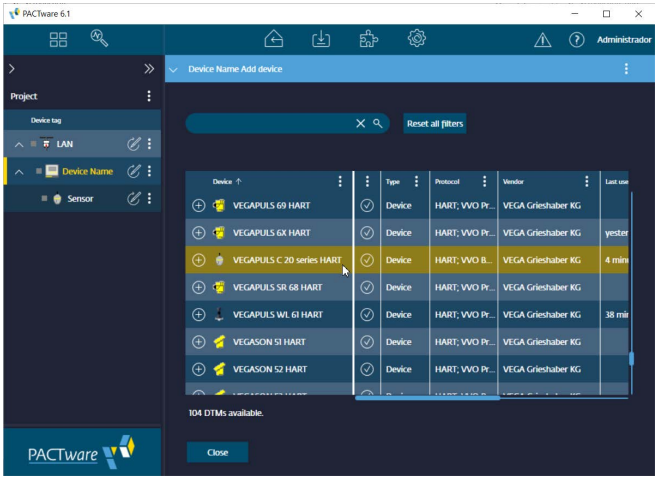

Fig. 10: Project VEGAMET LAN with VEGAPULS

5.4 Parameter adjustment (synchronized operation)

With the parameter adjustment in synchronized operation, the DTM tries to keep the instance data, this means the data stored in the DTM are always consistent to the device data. To achieve this, always the complete data set of the device is read out during connection and copied to the instance data of the DTM. This mode corresponds to the standard behaviour of the VEGA DTMs.

After the project is created, the parameter adjustment of the instrument can be started. This is done via double click to the requested DTM in the project window or via the right mouse key by selecting " *Parameter*".

In the following procedure, a difference is made between offline and online mode.

Offline mode

In offline mode, the project can be prepared, created and stored without connected instruments. Later on, in online mode these data can be transmitted to the instruments ready for operation.

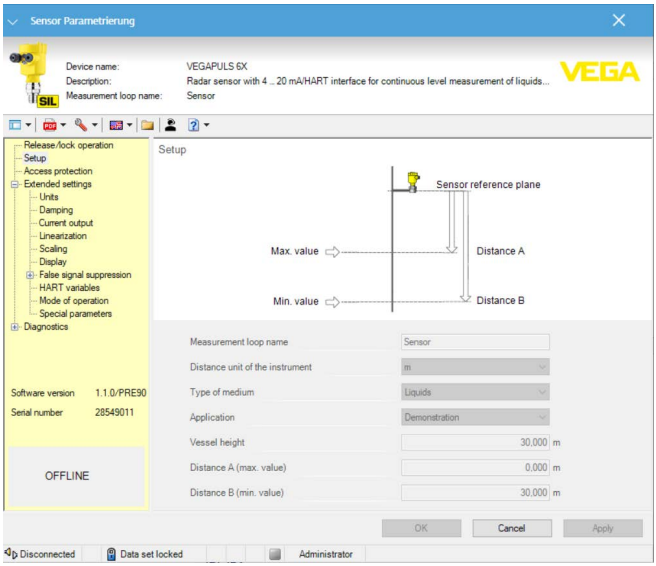

Fig. 11: DTM view setup VEGAPULS 6X offline operation (synchronized)

Online mode

In online mode, the instruments on which the parameter adjustment is to be carried out must be connected and ready for operation. By selecting the appropriate DTM with the right mouse key and the command " *Connect*", the online mode is set up for operation. After double clicking to the DTM, connection is initiated which simultaneously checks the communication, the sensor type and additional parameters. If necessary, all parameters of the instrument will be transferred automatically. Via the right mouse button and " *Read data from device*", all parameters of the instruments can be loaded anytime. All modifications which are carried out will be stored automatically in the instruments after pushing the *OK* or *Accept* button.

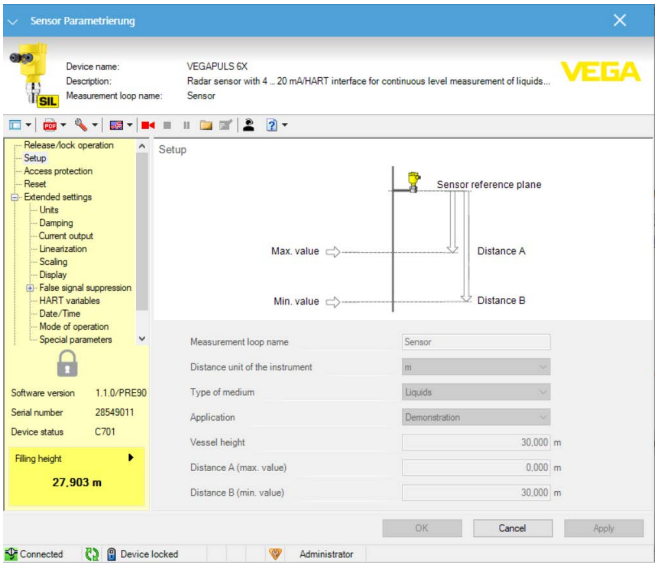

Fig. 12: DTM view setup VEGAPULS 6X online operation (synchronized)

By selecting the respective DTM with the right mouse key and the command " *Separate connection*", the DTM can be switched again to offline operation.

Information:
Detailed explanations on parameter adjustment and project creation are available in the online help of PACTware and the DTMs. Also consult the operating instructions manual of the corresponding instrument for setup and correct parameter adjustment.

5.5 Parameter adjustment (non-synchronized operation)

With the parameter adjustment in non-synchronized mode, the instance data, this means the data stored in the DTM, and the device data are kept separately. An automatic adjustment is not carried out. For this reason, the contents of the DTM window in offline mode can be different to that in online mode. Furthermore only data of the parameter page are loaded during connection which is actually opened in the DTM.

This mode is a version which is particularly designed for slow bus systems (e.g. Wireless HART). For activation of this mode, you have to use the VEGA DTM Configurator, file card " *Synchronization*".

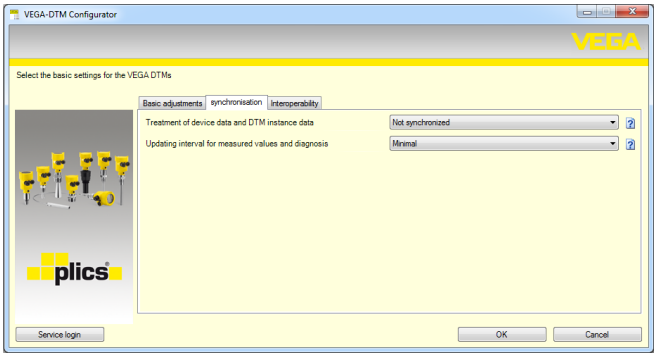

Fig. 13: VEGA DTM Configurator: Configuration of the data synchronization

You can find the VEGA DTM Configurator in the Windows program group *VEGA – VEGA-DTM Tools*. Here, you can also set the updating interval for online values (diagnosis and measured values). Settings in the file card " *Synchronization*" influence all VEGA DTMs for operation of plics®plus sensors. Please close PACTware before you change settings. When the DTMs work in non-synchronized mode, then a respective information appears in the tool bar.

After the project is created, the parameter adjustment of the instrument can be started. This is done via double click to the requested DTM in the project window or via the right mouse key by selecting "Parameter". In the following process, a difference is made between offline and online mode.

Offline mode (represents the instance data)
In offline mode, the project can be prepared, created and stored without connected instruments. Later on, these DTM instance data can be transferred to the ready devices by means of the PACTware menu " *Write into device*". However, in advance, connection must be provided by selecting the respective DTM with the right mouse key and the command " *Connect*".

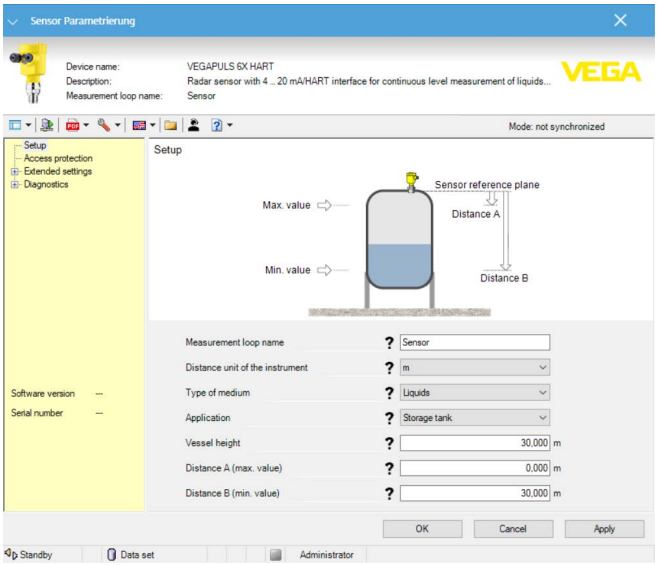

Fig. 14: DTM view VEGAPULS 6X offline operation (not synchronized)

Online mode (represents the device data)
In online mode, the instruments on which the parameter adjustment is to be carried out must be connected and ready for operation. By selecting the appropriate DTM with the right mouse key and the command " *Connect*", the online mode is set up for operation. After double clicking to the DTM, connection is initiated which simultaneously checks the communication, the sensor type and additional parameters. Furthermore the parameters of the opened DTM parameter page are transmitted from the device. Only when moving to another parameter page, the data of the selected parameter page are loaded. Via the PACTware menu item " *Read data from device*", all parameters of the instruments can be loaded anytime. All modifications which are carried out will be stored automatically in the instruments after pushing the *OK* or *Accept* button. The DTM instance data will not be changed.

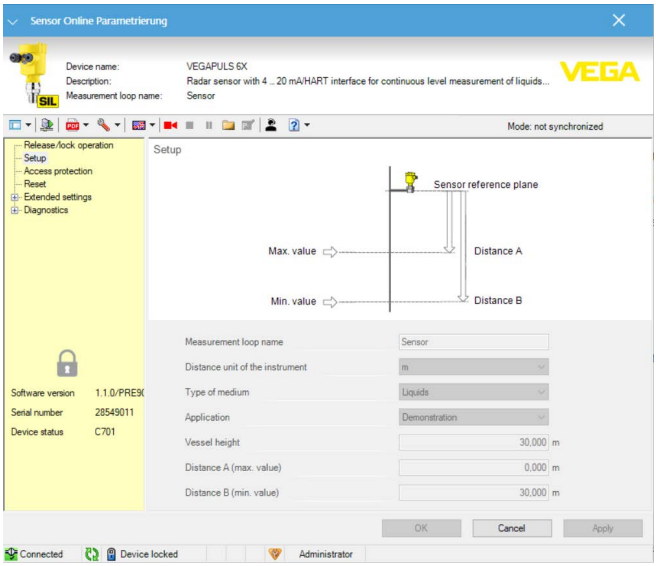

Fig. 15: DTM view VEGAPULS 6X online operation (not synchronized)

By selecting the respective DTM with the right mouse key and the command " *Separate connection*", the contents of the DTM parameter window disappears and the information " *Online connection required*" appears.

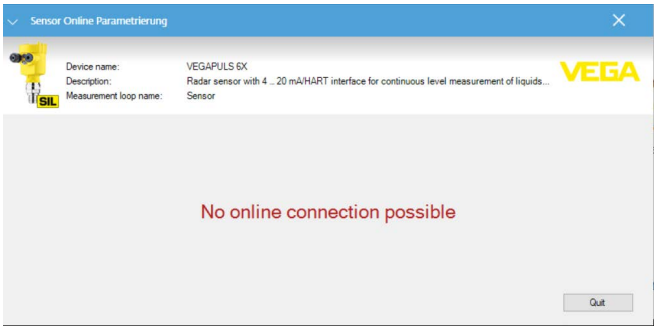

Fig. 16: DTM view VEGAPULS 6X online operation separated connection (not synchronized)

Information:
Detailed explanations on parameter adjustment and project creation are available in the online help of PACTware and the DTMs. Also consult the operating instructions manual of the corresponding instrument for setup and correct parameter adjustment.

6 Maintenance and fault rectification

6.1 Maintenance/Update

For the purpose of error removal or integration of new functions, software updates will be available. When new sensor types become available, the suitable DTMs will be included in the current DTM Collection which can be downloaded from the Internet. Information on our homepage: www.vega.com.

6.2 Rectify faults

If glitches occur, PACTware and VEGA DTM generate their own fault messages with corresponding explanations.

Fault messages generated in the sensor and sent to the DTM are described in the corresponding sensor operating instructions manual or in the online help of the DTM.

7 Deinstallation of PACTware/VEGA DTMs

7.1 Deinstallation procedure

If you want to deinstall PACTware or the DTM Collection on your PC, proceed as follows:

1. Select item " *Apps & Features*" in the Control Panel (can be reached via "Start - Settings - Apps").
2. Select the entry " *PACTware*" or " *VEGA-DTM*" from the list and push the button " *Deinstall*".
3. Carry out the deinstallation in the way suggested by the assistant and complete the procedure with a Windows restart.

7.2 Disposal

Please dispose of the data carriers and the packaging material via specialised recycling companies.

8 Supplement

8.1 System requirements

Hardware	
Processor	CPU 1 GHz or higher
Memory	At least 4 GB RAM or higher
Hard disk	At least 10 GB free memory
– Interfaces	Bluetooth/USB/Ethernet

Software	
Operating system	Windows 10/11 (32/64 Bit)
Software	Microsoft .NET Framework 3.5, 4.6.1 and .NET6

8.2 EULA für Setup des/der VEGA DTMs

Nutzungsbedingungen für VEGA Device Type Manager („Softwareprodukt"). **Bitte sorgfältig lesen!**

§ 1 Geltungsbereich

Diese Endbenutzer-Nutzungsvereinbarung („EULA") ist ein rechtsgültiger Vertrag zwischen Ihnen (entweder als natürlicher oder juristischer Person) und der VEGA Grieshaber KG, Schiltach („VEGA") über die Nutzung des Softwareprodukts. Indem Sie das Softwareprodukt installieren, kopieren oder anderweitig benutzen, erklären Sie sich mit den Bestimmungen dieser Nutzungsvereinbarung einverstanden. **Installieren Sie das Softwareprodukt nicht, sollten Sie mit den Bedingungen dieser Nutzungsvereinbarung nicht einverstanden sein.**

§ 2 Gegenstand

VEGA Device Type Manager (DTM) besteht aus der eigentlichen Software und der entsprechenden Dokumentation wie Handbuch, Online-Hilfe usw. („Softwareprodukt"). Das Softwareprodukt wird sowohl durch das Urheberrecht und internationale Urheberrechtsverträge geschützt, als auch durch weitere Gesetze und Verträge über geistiges Eigentum. Das Softwareprodukt wird nicht verkauft, sondern nur zur Nutzung überlassen.

§ 3 Nutzungsrechte

- Das Softwareprodukt wird als kostenfreie Version mit vollem Funktionsumfang bezogen.
- Sie sind widerruflich berechtigt, alle ihre Rechte aus dieser Nutzungsvereinbarung dauerhaft zu übertragen. Voraussetzung ist, dass Sie das vollständige Softwareprodukt (einschließlich aller Komponenten, der Medien und des gedruckten Materials) übertragen, und der Empfänger den Bedingungen dieser Nutzungsvereinbarung zustimmt. Sie sind verpflichtet, mit dem Dritten eine schriftliche Vereinbarung zu treffen, die den Bestimmungen dieser Vereinbarung entsprechen. Sie sind für die Beachtung etwaiger Ausfuhrerfordernisse aufgrund aller geltenden Rechtsvorschriften und Anordnungen verantwortlich. Sie stellen VEGA von sämtlichen Ansprüchen Dritter frei, die aus einem Verstoß gegen diese Regelung entstehen.

§ 4 Nutzungseinschränkungen

Die Nutzung des Softwareprodukts erfolgt ausschließlich gemäß der Bedingungen dieser EULA. Sie sind insbesondere nicht berechtigt, die Software (i) zu ändern, anzupassen, zu erweitern, zurückzuentwickeln oder zu übersetzen, (ii) Teile herauszulösen, (iii) oder zu versuchen, den Quellcode abzuleiten oder zu entschlüsseln, (iv) Eigentumsvermerke (einschließlich Urheberrechtsvermerke oder Markenzeichen) von VEGA oder ihren verbundenen Unternehmen oder Partnern zu entfernen, zu verändern oder zu verdecken, oder (v) die Software zu vermieten oder zu verleasen.

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§ 5 Verstoß gegen Nutzungsrechte

Ungeachtet anderer Rechte ist VEGA berechtigt, diese Nutzungsvereinbarung zu kündigen und Ihnen die Nutzung des Softwareprodukts zu untersagen, wenn Sie gegen die Bedingungen dieser EULA, insbesondere die vereinbarten Nutzungsrechte und -einschränkungen verstoßen. In diesem Fall sind Sie verpflichtet, alle Kopien des Softwareprodukts und all seiner Komponenten insbesondere der Software-Produktscheine zu vernichten und VEGA darüber Nachweis zu führen.

§ 6 Gefahrenübergang bei elektronischen Kommunikationsmedien

Bei Überlassung von Software über elektronische Kommunikationsmedien (zum Beispiel insbesondere über das Internet) ist der Zeitpunkt des Gefahrenübergangs der Zeitpunkt, bei dem die Software die Sphäre von VEGA verlässt.

§ 7 Mängelhaftung

- Wird das Softwareprodukt auf einem Datenträger von VEGA zur Verfügung gestellt, ersetzt VEGA diesen bei offensichtlichen Mängeln durch ein mangelfreies Exemplar.
- Als Mängel in Bezug auf das Softwareprodukt gelten solche von Ihnen nachgewiesene, reproduzierbare, nicht unerhebliche Abweichungen von der dazugehörigen Dokumentation.
- Eine Nachbesserung erfolgt üblicherweise durch Lieferung oder Bereitstellung eines neuen Produktausgabestandes (Update/Upgrade).
- Die Fehlerdiagnose und die Mängelbeseitigung im Rahmen der Gewährleistung erfolgen nach Wahl von VEGA bei Ihnen (vor Ort) oder bei VEGA. Sie stellen VEGA die zur Mängelbeseitigung benötigten Unterlagen und Informationen zur Verfügung. Erfolgt die Mängelbeseitigung vor Ort, stellen Sie unentgeltlich die benötigte Hard- und Software sowie die erforderlichen sonstigen Betriebszustände mit geeignetem Bedienungspersonal so zur Verfügung, damit die Arbeiten zügig durchgeführt werden können.
- VEGA kann die Vergütung des Prüfaufwandes aufgrund einer Mängelanzeige ihrerseits verlangen, wenn ein Mangel nicht nachweisbar ist.
- Sie haben alle angemessenen Maßnahmen zu ergreifen, weitergehende Schäden zu verhindern oder zu begrenzen, die aus einem Mangel am Softwareprodukt resultieren, insbesondere VEGA den Mangel unverzüglich anzuzeigen und für die Sicherung der eingegebenen und zu verarbeitenden Daten zu sorgen.
- Die Gewährleistungsfrist für Softwareprodukte beträgt 12 Monate. Die Frist beginnt mit dem Zeitpunkt des Gefahrenübergangs.

§ 8 Datenverlust

Bei Beschädigung von Daten durch einen Mangel in der gelieferten Software umfasst die Ersatzpflicht nicht den Aufwand für die Wiederbeschaffung verlorener Daten und Informationen.

§ 9 Ergänzende Regelungen

Die Nutzung des Softwareprodukts unterliegt ergänzend zu den in dieser EULA festgehaltenen Bedingungen den Allgemeinen Lieferbedingungen der VEGA. Diese finden Sie im Internet unter www.vega.com/agb. Im Falle von Abweichungen oder Widerspruch gelten die Bedingungen dieser EULA vorrangig für die Nutzung des Softwareprodukts.

Sollten einzelne Bestimmungen dieser EULA nicht wirksam sein, berührt dies nicht die Wirksamkeit der übrigen Bestimmungen. Die Vertragspartner werden die unwirksame Bestimmung einvernehmlich durch eine wirksame und angemessene Bestimmung ersetzen, die dem wirtschaftlichen Gehalt der ursprünglichen Bestimmung möglichst nahe kommt.

EULA for Setup of the VEGA DTM(s)

Terms of use for VEGA Device Type Manager ("Software product"). **Please read carefully!**

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§ 1 Scope of application

This End User License Agreement ("EULA") is a legal contract between you (either as a natural person or a corporate entity) and VEGA Grieshaber KG, Schiltach ("VEGA"), for the use of the software product. By installing, copying or otherwise using the software product, you agree to be bound by the terms of this User Agreement. **If you do not agree to the terms of this User Agreement, do not install the software product.**

§ 2 Subject matter

VEGA Device Type Manager (DTM) consists of the actual software and the corresponding documentation such as user manual, online help, etc. ("Software product"). The software product is protected by copyright law and international copyright treaties, as well as other intellectual property laws and treaties. The software product is not sold - it is only made available for use.

§ 3 Usage rights

- The software product can be obtained as a free version with full functionality.
- You are entitled to permanently transfer all your rights under this user agreement, but also to revoke the transfer of those rights. The prerequisite is that you transfer the complete software product (including all components, data carriers and printed material) and that the recipient agrees to the terms of this user agreement. You are also required to make a written agreement with the third party that complies with the terms of this agreement. You are obligated to comply with any export requirements mandated by all applicable laws and regulations. You indemnify VEGA against all third-party claims arising from a violation of this regulation.

§ 4 Restrictions on use

The software product may only be used in accordance with the terms of this EULA. In particular, you are not authorised to (i) modify, adapt, extend, reverse engineer or translate the software, (ii) extract parts, (iii) or attempt to derive or decipher the source code, (iv) remove, alter or obscure proprietary notices (including copyright notices or trademarks) of VEGA or its affiliates or partners, or (v) rent or lease the software.

§ 5 Violation of rights of use

Irrespective of other rights, VEGA is entitled to terminate this usage agreement and to prohibit you from using the software product if you violate the terms of this EULA, in particular the agreed usage rights and restrictions. In such case, you are obliged to destroy all copies of the software product and all of its components, in particular the software product certificates, and to provide VEGA with proof of this.

§ 6 Transfer of risk with electronic communication media

When software is transferred via electronics communication media (for example and in particular via the Internet) the transfer of perils to the buyer takes place when the software leaves VEGA's sphere.

§ 7 Liability for defects

- If VEGA provides the software product on a data carrier, VEGA will replace it with a defect-free copy in case of obvious defects.
- The software product is considered defective if you can prove there are significant, reproducible deviations from the associated documentation.
- A rectification of defects is usually effected by delivery or provision of a new product version (update/upgrade).
- Fault diagnosis and rectification within the scope of the warranty are carried out at VEGA's discretion either at your premises (on site) or at VEGA's premises. You provide VEGA with the documents and information required to remedy the defect. If the defect is to be remedied on site, you provide the required hardware and software as well as the necessary operating conditions with suitable operating personnel free of charge so that the work can be carried out quickly.

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- If it cannot be proven there is a defect, VEGA can demand compensation for the work involved in examining and checking the software.
- You must take all appropriate measures to prevent or limit further damage resulting from a defect in the software product, including notifying VEGA of the defect immediately and backing up your data, especially data that has been entered or is yet to be processed.
- The warranty period for software products is 12 months. The period begins at the time of the transfer of risk. The warranty period for the master copy applies to copies made by you.

§ 8 Loss of data

If data is damaged due to a defect in the supplied software, the obligation to pay compensation does not include the cost of recovering lost data and information.

§ 9 Supplementary provisions

In addition to the conditions stipulated in this EULA, the use of the software product is subject to VEGA's general terms of delivery. You can find these on the Internet at www.vega.com/agb. IIn the event of any discrepancy or contradiction, the terms of this EULA shall govern the use of the software product.

If individual provisions of this EULA are found to be legally void, this does not affect the effectiveness of the remaining provisions. The contracting parties shall by mutual agreement replace the invalid provision with an effective and appropriate provision that comes as close as possible to the economic intent and purpose of the original provision.

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Printing date:

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.
Subject to change without prior notice

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