Operating Instructions

Software for archive, administration and display of DTM data







Document ID: 51547







Contents

1	Abou	It this document	3
	1.1	Function	3
	1.2	Target group	З
	1.3	Symbols used	3
2	For y	our safety	4
	2.1	Authorised personnel	4
	2.2	Appropriate use	4
	2.3	Warning about incorrect use	4
	2.4	General safety instructions	4
	2.5	Environmental instructions	4
3	Prod	uct description	5
	3.1	What is VEGA DataViewer?	5
4	Softv	vare installation	6
	4.1	System requirements	6
	4.2	Install DataViewer	6
5	Adju	stment	7
	5.1	Start DataViewer	7
	5.2	Definition of device data/recordings	7
	5.3	Import/Export of device data	9
	5.4	Display of device information 1	0
	5.5	Share device data with service 1	5
6	Dein	stallation1	7
	6.1	Deinstallation procedure 1	7
7	Supp	plement 1	8
	7.1	System requirements 1	8
	7.2	License agreements 1	8



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

i

This symbol on the front page of this instruction refers to the Document ID. By entering the Document ID on <u>www.vega.com</u> 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.



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.

 \rightarrow 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, qualified personnel authorised by the plant operator.

2.2 Appropriate use

VEGA DataViewer is a software for archiving, administration and display of data and documentation of communication-capable instruments.

2.3 Warning about incorrect use

Inappropriate or incorrect use can give rise to application-specific hazards, e.g. vessel overfill or damage to system components through incorrect mounting, adjustment or configuration. Thus damage to property, to persons or environmental contamination can be caused. Also the protective characteristics of the instrument can be influenced.

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.



3 Product description

3.1 What is VEGA DataViewer?

With this software you get a tool for archiving, administration, display and analysis of DTM data which will be stored in a database. The following data formats or types can be integrated:

- Measured value recordings
- Event files
- Echo curve files
- Service recordings
- Impedance curve recordings
- PACTware project files
- Backups
- Documentation

The stored data can be retrieved via a device list using the serial number or the device TAG for viewing/evaluation. Hence the corresponding data can be retrieved centrally at any time.



4 Software installation

4.1 System requirements

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

4.2 Install DataViewer

The VEGA DataViewer is a part of the DTM Collection and cannot be bought or installed as individual software. The DataViewer is installed automatically while installing the DTM Collection of the VEGA DTM package.



5 Adjustment

5.1 Start DataViewer

Start the software via the Windows start menu under " VEGA DTM Tools".

The menu language orientates on the adjusted DTM language. As an alternative, it can be switched over temporarily under " *Settings*" - " *Options*".

• Information: To ensure the

To ensure the support of all functions, you should always use the latest software version. The latest DTM Collection can be downloaded free-of-charge from our homepage.

Adjustment system

The DataViewer user interface is divided into three main sections. These sections fulfil the functions described below:

0	Start Vie	w Data			VEGA DataViewe	r			-		×
L[]	at Device da	Poort									
In	strument list		*								
- 3	Search			Information Available da	ta Impedance curve I	Backups Documenta	tion Order text			*	×
		4	a,×≥	- Features	Serial number: 4445	8125 Device IAG	Sensor Device ty	ipe: VEGAPOINT 21			
	Serial number	Device TAG	Device type	Plant location:							
4	44458125	Sensor	VEGAPOINT 21	Companys	Mustermann						
	mmm	Zementsilo	VEGAFLEX 82	Country							
	19234313	Sensor	VEGAPULS 62	Street/Street number:							
				ZIP / Place:							
				Customer number:							
				Contact person:	Herr						
					Max						
					Mustermann						
				Application area:							
				Industry	10.89 Lebensmitte	(test)					
				Application:							
				Medium:							
						bdit	A new fig	sure can be filed here via Drag 8	k Drop.		
				Num							
									Edit		
								Show o	device log bool	k	-
3	instruments are displa	ryed					Genu	utzler Speicherplatz	500 MB		

Fig. 1: User surface VEGA DataViewer

- 1 Menu bar (upper screen section)
- 2 Device list (left screen section)
- 3 Device data (right screen section)
- Menu bar: Provides the necessary commands and functions
- **Device list:** Is used to select the device which should be analyzed in the device data section
- Device data: Here, all information is presented centrally which are stored with the selected device

5.2 Definition of device data/recordings

The VEGA DataViewer can import the following device data and recordings which were created with the respective device DTM.



Measured value record- ings	The parameter adjustment of measured value recordings is pos- sible with the new sensor generation so that the sensor is recording measured values automatically. This measured value memory in the instruments can be read out any time with the DTM and composed in the DataViewer to a measured value history. In addition, measured values recordings can be generated with the DTM by recording of measured values through the DTM. The two measured value memo- ries are administrated separately in the DataViewer and are called " <i>Measured value (DTM)</i> " and " <i>Measured value (device)</i> ".
Event files	The new sensor generation has the possibility of storing parameter changes as well as events, such a current failure, with a time stamp and the NAMUR status in the sensor. When reading out of the device, these data will be archived in the DataViewer and composed to a history.
Impedance curve files	With a VEGAPOINT, impedance curve recordings can be gener- ated with the DTM as the DTM itself records impedance curves. The impedance curves are managed in the DataViewer and are called " Impedance curve.
Echo curve files	In the new sensor generation, parameter settings can be made that allow the sensor to record echo curves automatically. The echo curve memory in the instrument can be read out at any time with a DTM and compiled into a history in the DataViewer. On instruments with an echo curve memory, the echo curve of setup is also archived in the DataViewer. Echo curve recordings can also be generated with the DTM, whereby the DTM itself records the echo curves. The two echo curve memories are administrated separately in the DataViewer and are called " <i>Echo curve (DTM)</i> " and " <i>Echo curve (device)</i> ".
PACTware project files	The PACTware project files cannot be administrated because the Da- taViewer has no file management. If the PACTware files are imported, the DataViewer extracts the contained instrument data and archives the extracted data. This corresponds to the backup file with the device parameters.
Backups	Backups contain an image of all parameters of an instrument. With a backup, it is possible to restore an instrument with the parametrisation saved in the backup at any time.
Documentation	PDF files are created at different places in a DTM. These documenta- tions such as the instrument documentation or the results of a con- ducted instrument test are managed in the "Documentation" section.
Service recordings	 With a service recording, the following recordings of an instrument are automatically recorded and archived at the end of the service recording in the DataViewer. Measured value recording with DTM Echo curve recording with DTM Event list from device Backup file with device parameters





Fig. 2: Starting a service recording

Information:

No archiving takes place in the DataViewer during a service recording. The data is transferred only after the service record is finished.



Fig. 3: Terminating a service recording

5.3 Import/Export of device data

When recording data, creating backups or documentations, the data are automatically stored and automatically imported into the DataViewer. With all other data formats, the import must be carried out manually via the button " *Import from file*". After selecting the appropriate file during a manual import, a window is displayed in which additional information on the device, location, contact person, ... can be entered.

After import, each device can be selected via the serial number or device TAG.



Fig. 4: Import of device data

To export the stored data of a device, mark the device in the device list and push the button " *Export*". Then you can select the desired storage location for the file. The generated VDS file contains all stored information concerning the selected device.

Import

51547-EN-230302 todat



9 i 🖬 v				VEGA DataViewer -	
ttings Sta	rt View Data				
sert in Dipboard ristrument list Search —	nport Down Device de Store data of t	he selected instrume	nts as VDS file	a Impedance curve Backups Documentation Order text Seruit number: 44454325 Davics TAG: Senser: Davics type: VEGAPOINT 21	
		Q, X ≯	- Features		
Serial nu	mber Device TAG	Device type	Plant location:		
4445812	5 Sensor	VEGAPOINT 21	Company	Mustermann	
7777777	7 Zementsilo	VEGAFLEX 82	Country		
1923431	3 Sensor	VEGAPULS 62	Street/Street number:		
			ZIP / Place:		
			Customer number:		
			Contact person:	Herr	
				Max	
				Mustermann	
			Application sease		
			Industos	10.89 Leberroittel (fert)	
			Application:	1000 EEDENIMARI (EDV)	
			Medium		
				Edik	
				A new figure can be filed here via Drag & Drop.	
			Notes		
				Edit	
				Show device log bool	k
Lostomente	ara dianlavad			Genutzter Speicherolatz 500 MB	-

Fig. 5: Export of device data

5.4 Display of device information

Instrument selection

Each listed device is identified and archived by its serial number. All stored devices are listed in the device list on the left-hand side of the screen. The desired device is selected by clicking with the left mouse button on the serial number or the device TAG. In the case of extensive device lists, the quick search function can also be used in the upper section of the device list. All characteristic fields of the information field are searched.

After an instrument is selected, all information recorded by an instrument is downloaded automatically into the device data section. To ensure clear, well-structured content, this section is subdivided as follows and can be reached via tabs.

- Information
- Available data
- Echo curve (DTM)
- Measured value (DTM)
- Events
- Backups
- Impedance curve
- Documentation

Note:

The four pages " *Information*", " *Available data*", " *Appendices*", " *Order texts*" always exist in conjunction with every archived device. Additional pages appear if additional data corresponding to a device have been stored.



Information

© Set	ngs Start Vi	ew Data			VEGA DataViewer	-		×
Linse Cit	t Import B	port ta						
Ins	rument list			Information Available da	Imperiance curve Backups Documentation Onles	r text	*	×
E S	earch				erial number: 44458125 Device TAG: Sensor	Device type: VEGAPOINT 21		
			Q,X ¥	- Features				
	Serial number	Device TAG	Device type					
1	44458125	Sensor	VEGAPOINT 21	Plant location:	4			
	mmm	Zementsilo	VEGAFLEX 82	Company	viosternam			
	19234313	Sensor	VEGAPULS 62	Country.				
				219 / Hose Customer number: Contact person: Application areas Industry: Application: Medium:	ferr Max Mustermann 0.89 Leberumittel (Kest) Edit	A new figure can be filed Here via Darg & Days.		
				Notes		Edit Show device log box	ak	

Fig. 6: Device data - Information

In the information window, you can store information on plant location, contact person and measurement loop as well as comments. All information in this section can be found via the quick search in the device list.

0							VEGA	DataViewer							-	□ ×
	95 S	itart	View	Data												\$
linsert	N I	Import Device	Export													
Instr	ument is	e .														
- Se	arch -					Information Available dat	ta Measured	i values (DTN	I) Measur	ed values (De	vice) Echo	curves (DTM) Events E	lackups Dor	cumentation	* ×
				(۹××		serial numbe	a: //////	/ Device	a TAG: Zem	entsilo Di	evice type:	VEGAPLE	1.82		
	Serial n	umber		Device TAG	Device type		<<	2019	2020	2021 >>	1 year u	ip to now	Show all			
	44458	125		Sensor	VEGAPOINT 21	5 L	5									
•	777777	777		Zementsilo	VEGAFLEX 82	Echo curves (UTM)	2 2									
	192343	313		Sensor	VEGAPULS 62	Measured values (DTM)	3						-			
						Measured values (Device) Events Backups	38									
						The makings in the grap	2012 hic identify st	2013	2014 leta: By clic	2015	2016 earling, the	2017 respective d	2018 evice data ar	e displayed.	2020	
	_					· · · · · · · · · · · · · · · · · · ·										_

Fig. 7: Device data - Available data

This window provides an overview in graphic form of all data stored from a device. The different data objects are represented in a calendar graphic. The contained graphic symbols have a hyperlink function, i.e. each data object can be directly opened in the appropriate view with a mouse click. Depending on the selected calendar resolution,

Available data

51547-EN-230302



the software composes individual symbols into one symbol. In this case the number of compiled data objects is indicated by a number above the symbol. The function "*Memory usage*" gives an overview of the utilized memory per device and data type. Functions for targeted deleting of data objects are also provided here.



Echo curve (DTM)

Fig. 8: Device data - Echo curve (DTM)

In this window, the imported data blocks are each displayed by individual symbols in the calendar bar. If data blocks were imported with time overlap, the DataViewer treats the data blocks as one coherent block. The same applies if two neighbouring data blocks lie close together with respect to time (< 2 minutes).

Different functions for navigating the curves as well as for adapting the presentation and analysing data are provided. For the operation of these functions, the menu bar is extended by the tabs "*Presenta-tion*" and "*Analysis*". In addition, corresponding control elements are placed at various points around the echo curve graphic.



Measured value (DTM)



Fig. 9: Device data - Measured values

In this window, the imported data blocks are each displayed by individual symbols in the calendar bar. If data blocks were imported with time overlap, the DataViewer treats the data blocks as one coherent block. The same applies if two neighbouring data blocks lie close together with respect to time (< 2 minutes).

Different functions for navigating the curves as well as for adapting the presentation and analysing data are provided. For the operation of these functions, the menu bar is extended by the tabs "*Presenta-tion*" and "*Analysis*". In addition, corresponding control elements are placed at various points around the measured value graphic.

Events

Hormator Audited data Massared values (brief) Edito careles (brief) Editors		Analysis window							
Standh Standh mitheli and stand and	Instr	ument list		-	Information Augulable data	Manurad values (De	ica) Erbo cumar (Davica) Ev	ante Parlune Documentation	Order text
All start Start number Start number <td>Se</td> <td>arch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Se	arch							
Barder Anuelles Device Tipe Device Tipe <thdevice th="" tipe<=""></thdevice>				a x ×		Senai number: 19234	313 Device IAG: Sensor	Device type: VEGAPULS 62	
Institution Owner VGLOADUS Topy					All 1 year 1 mont	a I	8 4	844443 3	
444113 Benner Vision0717 Time Mask Dentify Mask Dentify Mask Dentify Dentify<		Serial number	Device TAG	Device type	a second second second		0 0	00000	
777777 Zemetho VGAUGE Tests Protective drags Cent type Lend type Masser drags Lend type Masser drags		44458125	Sensor	VEGAPOINT 21	Tweek Toay Thou		Week 1 Week 2	Week 3 Week 4	Week S
Number Stand Evert get Lever description Multi-Effected of 2023/03/03/53-00 Operation (19) Ever description Multi-Effected of 2023/03/03/53-00 Operation (19) Multi-Effected of 2023/03/03/03/04 Multi-Effected of 2023/03/03/04/04 Multi-Effected of 2023/03/04/04/04 Multi-Effected of 2023/03/04/04/04 Multi-Effected of 2023/03/04/04/04 Multi-Effected of 2023/03/04/04/04/04/04/04/04/04/04/04/04/04/04/		77777777	Zementrilo	VEGALLEY 82	Graph: All Events Para	meter changes			9
Jackar II Jackor V Maxmed Value (Key 02.021/01.051/03 Company F105 (Fauler) Measured value is determ 6004 02.021/01.051/03 Monorm F105 (Fauler) Measured value is determ 6004 02.021/01.051/03 Monorm F105 (Fauler) Measured value is determ 6004 02.01/01.051/03 Monorm F105 (Fauler) Measured value is determ 6004 03.01/01.051/03 Monorm F105 (Fauler) Measured value is determ 6004 03.01/01.01/03.01/03 Monorm F105 (Fauler) Measured value is determ 6004 03.01/01.01/03.01/03.01 Monorm F105 (Fauler) Measured value is determ 6004 03.01/01.01/03.01 Monorm F105 (Fauler) Measured value is determ 6004 03.01/01.01/0		1000000	Zemensio	VEGHPLEX 62	Date/Time	Status	Event type	Event description	Value/Extended statu
• 20.03101455101 Scoring F105 (Fallurg) Meanered values a determs 6040 20.03101455101 6030 5059 (Virsup emblet at 0 0 10.03.03116726 607 5599 (Virsup emblet at 0 0 10.03.03116726 607 5599 (Virsup emblet at 0 0 10.03.03116726 607 7505 (Saluer) Massard Value is determ is 004 10.03.0310664 kconing 7105 (Saluer) Massard Value is determ is 004 11.03.03106640 kconing 7105 (Saluer) Massard Value is determ is 004 11.03.03106630 0.03 pring 1005 (Saluer) Massard Value is determ is 004 11.03.03106635 000 Ssephy voltage miblet at 0 0 11.03.03106331 001 Ssephy voltage miblet at 0 0 10.03.031112.031 000 Ssephy voltage miblet at 0 0 10.03.031112.031 </td <td></td> <td>19234313</td> <td>Sensor</td> <td>VEGAPULS 02</td> <td>22.01.2013.08-53-28</td> <td>Outabies</td> <td>E105 (Earlying)</td> <td>Maanurad value is determin</td> <td>4004</td>		19234313	Sensor	VEGAPULS 02	22.01.2013.08-53-28	Outabies	E105 (Earlying)	Maanurad value is determin	4004
u 20.001 00.50.00 Stopp voltage mother is 0 11 100.1201 107.00 001 Stopp voltage mother is 0 11 100.1201 107.00 001 Stopp voltage mother is 0 11 100.1201 107.00 001 Masured volta is datem 800 11 100.1201 107.00 000 Stopp voltage mother is 0 800 11 100.1201 107.00 000 Stopp voltage mother is 0 0 11 100.1201 107.00 000 Stopp voltage mother is 0 0 11 100.1201 107.00 000 Stopp voltage mother is 0 0 11 100.1201 107.00 000 Stopp voltage mother is 0 0 11 100.1201 107.00 000 Stopp voltage mother is 0 0 11 100.1201 107.01 000 Stopp voltage mother is 0 0 11 100.1201 107.01 000 Stopp voltage mother is 0 0 11 100.1201 107.01 000 Stopp voltage mother is 0 0 11 100.1201 107.01 000 Stopp voltage mother is 0 0 11 100.1201 107.01 000 Stopp voltage mother is 0 0 11 100.1201 10					22.01.2013 08:53:03	Incoming	F105 (Failure)	Measured value is determine	4004
International Control (Control (Contro) (Control (Contro) (Control (Contro) (Contro) (Co					22.01.2013 08:53:02		800	Supply voltage switched or	0
International Control P100 (Fully of International Control P100 (Fully of International Control P100 (Fully of Internatintered)					18.01.2013 16:27:26		801	Supply voltage switched of	0
0 10.02.021 09.64-04 Nooming P100 (failure) Measured value is determ MOX01 10.10.2010 06.64-04 00 Sopply-voltage mithods is 0 0 10 Sopply-voltage mithods is 0 11.70.12.01 06.04-05 00 Sopply-voltage mithods is 0 0 <td< td=""><td></td><td></td><td></td><td></td><td>18.01.2013 09:43:11</td><td>Outgoing</td><td>F105 (Failure)</td><td>Measured value is determine</td><td>4004</td></td<>					18.01.2013 09:43:11	Outgoing	F105 (Failure)	Measured value is determine	4004
III 102/101 00:6-05 000 Sophy ubgs mithed a 0 III 702/101 70:201 001 Sophy ubgs mithed a 0 III 702/101 70:201 001 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 III 702/101 70:201 0000 Sophy ubgs mithed a 0 IIII 702/101 70:201 0000					18.01.2013 09:42:46	Incoming	F105 (Failure)	Measured value is determine	4004
u 170.210 173.282 011 Sophy-shape and/set of 0 u 170.210 104.201 Organing F105 (Shure) Measured value is determ in 004 u 170.210 104.823 000 Organing F105 (Shure) Measured value is determ in 004 u 170.210 104.823 000 Sophy-values and/set of 0 Sophy-values and/set of 0 u 170.210 104.823 000 Sophy-values and/set of 0 Sophy-values and/set of 0 u 160.201 175.146 010 Sophy-values and/set of 0 Sophy-values and/set of 0 u 160.201 172.214 Organing F105 (Shure) Measured value is determ in 004 u 160.201 172.214 0.00 Sophy-values and/set of 0 Sophy-values and/set of 0 u 150.201 172.244 0.00 Sophy-values and/set of 0 Sophy-values and/set of 0 u 150.201 172.412 0.00 Sophy-values and/set of 0 Sophy-values and/set of 0 u 150.2011 172.044 0.00 Sophy-values and/set of 0 Sophy-values and/set of 0 u 150.2011 172.047 000 Sophy-values and/set of 0 Sophy-values and/set of 0 u 160.2011 173.047 000 Sophy-values and/set of 0 Sophy-values a					18.01.2013 09:42:45		800	Supply voltage switched or	0
uiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii					17.01.2013 17:38:29		801	Supply voltage switched of	0
0 71.02 01 08.09.09 Mexanet Alles Stefamilia MOAL 1 710.12 01 08.09.05 800 Sopy-voltage mithed: a 0 1 100.01 01.09.05 801 Sopy-voltage mithed: a 0 1 160.12 01.17.51.49 0.00 Sopy-voltage mithed: a 0 1 160.12 01.12.21.41 Oxgoing F10.9 (Minn') Mexanet Alles Stefamilia 4004 1 160.2011.12.21.11 Rooming F10.9 (Minn') Mexanet Alles Stefamilia 4004 1 160.2011.12.21.11 Collapsing F10.9 (Minn') Mexanet Alles Stefamilia 4004 1 100.2011.12.21.14 Collapsing F10.9 (Minn') Mexanet Alles Stefamilia 4004 1 100.2011.12.21.4 Collapsing F10.9 (Minn') Mexanet Alles Stefamilia 4004 1 100.2011.11.21.04 B01 Mexanet Alles Stefamilia 4004 1 140.2011.11.11.07 B01 Mexanet Alles Stefamilia 4004 1 140.2011.11.11.11.11 B01 Sopy-voltage anthedint of a 4004					17.01.2013 08:50:01	Outgoing	F105 (Failure)	Measured value is determine	4004
iii 70.2010.08-035 0.00 Sophy-ubage simblest iii 0 iii 60.2010.75.040 0.01 Sophy-ubage simblest iii 0 iii 60.2010.75.040 0.01 Sophy-ubage simblest iii 0 iii 60.2010.75.040 0.00 Sophy-ubage simblest iii 0 iii 60.2010.75.040 0.00 Sophy-ubage simblest iii 0 iii 60.2010.75.041 0.00 Sophy-ubage simblest iii 0 iii 10.2010.75.044 0.01 Sophy-ubage simblest iii 0 iii 10.2010.75.044 0.01 Sophy-ubage simblest iii 0 iii 10.2010.71.01.024 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.024 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.024 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.04 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.01 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.01 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.01 Noghy-ubage simblest iii 0 Noghy-ubage simblest iii 0 iii 10.2010.71.01.01.01.01.01					17.01.2013 08:49:36	Incoming	F105 (Failure)	Measured value is determine	4004
III 100,000,000,000 800 Sophy-stopps mothers of 0 III 100,000,000,000 F100,0000,000 Measured values determs 4004 III 100,000,000,000,000 F100,0000,000 Measured values determs 4004 III 100,000,000,000,000 B00,000,000 Sophy-stopps motherd of 0 III 100,000,000,000,000 B00,000,000,000 B00,000,000,000,000,000,000,000,000,000					17.01.2013 08:49:35		800	Supply voltage switched or	0
III 1602/001122/241 Oxypring P105 Fillure) Measured wales is determ in 4004 III 1602/001122/011 Incoming P105 Fillure) Measured wales is determ in 4004 III 1602/001122/01122/011 III 1602/001127244 B00 Supply-voltage witholder id III 1602/001127244 III 1502/001127244 B01 Supply-voltage witholder id III 1602/001127244 Reasured voltage witholder id III 1602/00112704 III 1502/00112/01224 III 1602/00112704 B00 Supply-voltage witholder id III 1602/00112704 III 1602/001171744 B01 Supply-voltage witholder id III 1602/00112704 IIII 1602/00112704 IIIIII 1602/00112					16.01.2013 17:51:49		801	Supply voltage switched of	0
• 16.02.013.12.2017 Reaming P1.09 (Fibure) Measured value is determine 30.04 • 16.02.013.12.2017 0.00 Supply-values methods is of a supply-values methods is a supply-value method is of a supply-value method is supply-value method is of a supply-value method is o					16.01.2013 12:23:41	Outgoing	F105 (Failure)	Measured value is determine	4004
III 102.001 122.015 0.00 Sopply-rollings-mothedra III III 102.001 127.044 0.01 Sopply-rollings-mothedra III III 102.001 127.044 0.01 Sopply-rollings-mothedra III III 102.001 127.044 0.01 Sopply-rollings-mothedra III III 102.001 127.044 0.00 Sopply-rollings-mothedra IIII III 102.001 112.014 III.001 Room IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					16.01.2013 12:23:17	Incoming	F105 (Failure)	Measured value is determine	4004
iii 101,2013 172,244 80 10 Sophy values webber ii 0 iii 101,2013 172,344 Olganing F100 (Bulker) Massard value ii dettermi d04 iii 101,2013 112,346 Colganing F100 (Bulker) Massard value ii dettermi d04 iii 101,2013 112,346 Losoming F100 (Bulker) Massard value ii dettermi d04 iii 101,2013 112,347 000 Sophy values ii dettermi d04 0 iii 101,2013 112,347 000 Sophy values ii dettermi d04 0 iii 101,2013 112,347 000,349 Mossard value ii dettermi d04 0 iii 101,2013 112,347 00,349 P100 (Bulker) Mossard value ii dettermi d04 iii 101,2013 113,348 Olgaphing P100 (Bulker) Mossard value ii dettermi d04					16.01.2013 12:23:15		800	Supply voltage switched or	0
iii 10.2011/12.314 Oxganga P10.0 pRuhot Measured value is distrim iii 4004 iii 10.2011/12.310 Incoming P10.0 pRuhot Measured value is distrim iii 4004 iii 10.2011/12.307 800 Sopply-voltage valued is 0 Iii 10.2011/12.307 iii 10.2021/17.1047 801 Sopply-voltage valued is 0 Iii 10.2011/19.104 iii 10.2021/17.1047 801 Sopply-voltage valued is 0 Iii 10.2011/19.104 iii 10.2021/17.1047 801 Sopply-voltage valued is 0 Iii 10.2011/19.104 iii 10.2021/17.1048 Oxganga P10.0 pRuhot Measured value is distrim iii 4004					15.01.2013 17:23:44		801	Supply voltage switched of	0
O 1502/021112.03/08 Incoming FP00 failure) Measured value is determini 4004 II 1502/0211112.03/7 800 Supply-voltage mitched oi 0 II 1402/0211112.03/7 800 Supply-voltage mitched oi 0 II 1402/0211117104 601 Supply-voltage mitched oi 0 II 1402/0211117104 601 Supply-voltage mitched oi 0 II 1402/0211119344 Outgoing F100 (Subury Measured value is determini 4004 II 1402/0211119348 Incoming F100 (Subury Measured value is determini 4004					15.01.2013 11:23:34	Outgoing	F105 (Failure)	Measured value is determine	4004
iii 10.21/21 11.21/07 800 Supply-rollings mithedra iii 0 iii 10.21/20 11.71/44 801 Supply-rollings mithedra iii 0 iii 10.21/20 11.71/44 Rollings mithedra iii 0 Mexicord when 5 defamiliaria iii 10.21/20 11.71/44 Rollings mithedra iiii 0 Mexicord when 5 defamiliaria iii 10.21/20 11.71/44 Rollings mithedra iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii					15.01.2013 11:23:08	Incoming	F105 (Failure)	Measured value is determine	4004
iii 14012013171/714 801 Supply voltage switched of 0 iii 140120131719934 Outgoing F105 fillue Supply voltage switched of 0 iii 140120131119999 Incoming F105 fillue Measured value is determi 4004 iii 140120131119999 Incoming F105 (fillure) Measured value is determi 404					15.01.2013 11:23:07		800	Supply voltage switched or	0
14/01/2013 11:59:34 Outgoing F105 (Failure) Measured value is determi 4004 14/01/2013 11:59:09 Incoming F105 (Failure) Measured value is determi 4004					14.01.2013 17:17:41		801	Supply voltage switched of	0
14.01.2013 11:59:09 Incoming F105 (Failure) Measured value is determined 4004					14.01.2013 11:59:34	Outgoing	F105 (Failure)	Measured value is determine	4004
					14.01.2013 11:59:09	Incoming	F105 (Failure)	Measured value is determine	4004

Fig. 10: Device data - Events

In this window, the imported events are each displayed by individual symbols in the calendar bar. If two or more neighbouring data blocks lie close together with respect to time (< 2 minutes), the DataViewer treats the data blocks as one coherent block. In this case, a number above the symbol represents the number of compiled events.

Different functions for navigating the recordings as well as filtering the presentation and searching are provided. For operation of these functions, the DataViewer offers control elements at various points around the event table.



Fig. 11: Device data - Backup



In this window, the imported backups are each displayed by individual document symbols in the calendar bar. If two or more neighbouring backups lie close together with respect to time (< 2 minutes), the DataViewer treats the data blocks as one coherent block. In this case, a number above the document symbol represents the number of compiled backups.

Different functions for navigating the recordings as well as filtering the presentation and searching are provided. For operation of these functions, the DataViewer offers control elements at various points around the backups.



Fig. 12: Device data - Impedance curve

In this window, the imported data blocks are indicated by individual symbols in the calendar bar. If data blocks with overlapping times were imported, the DataViewer regards the data blocks as a contiguous block. The same applies if two adjacent data blocks are close together in time (< 2 minutes). Various functions are offered for navigating in the curves and for adjusting the display and for analysis. To operate these functions, the menu bar is extended by the tabs " *Presentation*" and " *Analysis*". In addition, corresponding adjustment elements are arranged around the impedance curve graphic.

Documentation The archived documentations are managed and displayed in this area. The name of the documentation contains the serial number, the date and the type of documentation. The documentation can be displayed, printed or saved again locally with a double click in the PDF Viewer.

5.5 Share device data with service

If the support of the VEGA service is required for the interpretation of the device data, the device data can be released for inspection by a service employee with the " *Share*" function. Before this, the device

Impedance curve



data must be synchronised with myVEGA, only then the " *Share*" is available. Once the support by the service employee has ended, the release of the device data can be cancelled.



Fig. 13: Release of the " Share" function for the VEGA service

The following adjustment options are available for sharing or cancelling device data:

- Via the menu bar " Data" with the adjustment elements of the group " Share with service"
- Via the right mouse button on a selected entry of the device list



6 Deinstallation

6.1 Deinstallation procedure

The DataViewer is a part of the DTM Collection and cannot be installed separately. Only by deinstalling the DTM Collection or the DTMs is it possible to deinstall the DataViewer.



7.1 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

7.2 License agreements

7.2 License agreement for VEGA DTM Collection

The DTM Collection consists of the actual software and - depending on the scope of delivery - the accompanying storage media as well as the corresponding documentation, such as online help, etc.

This end user licence agreement is a contract between the user (either as a natural person or a legal entity) and VEGA Grieshaber KG, Schiltach (VEGA) for the software product.

VEGA DTM Collection.

The **VEGA DTM Collection** is available as "Standard version" or "Full version". In the "Standard version", all standard functions are available. In the "Full version", the storing and printing of data recorded in the sensor, such as measured values, events or echo curves is also possible. The "Full version" also contains the programs "DataViewer" as well as "Tank Calculation".

When the user installs, copies or otherwise uses the **VEGA DTM Collection**, he accepts the following regulations and declares that he has read and understood all requirements and regulations.

7.2 Agreement

VEGA makes the **DTM Collection** available as free-of-charge "Standard version" including Online help via the Internet. The DTM Collection is also available as "Standard version" on DVD. The DTM Collection as "Full version" is only available on DVD.

The **DTM Collection** as "Standard version" is available for free-of-charge use. For the DTM Collection as "Full version" a one-time license fee must be paid. The content of the license agreement for both versions depends on the regulations of this agreement.

7.2 Rights of the user

The **DTM Collection** as "Standard version" can be copied and used on any number of computers. The DTM Collection as "Full version" can be copied and installed on several computers, but cannot be used by more than one user at the same time.

7.2 Warranty

For the **DTM Collection** as "Standard version", VEGA is only liable for intention and gross negligence.



7.2 Restrictions

The user agrees to neither change, reverse-engineer or compile the software nor extract any its parts. The user agrees to neither rent out or lease the software nor use the software in ways deviating from the regulations of this agreement or allow third parties to do so.

On the basis of this user agreement, the user is authorized to transfer his rights to the **DTM Collec**tion as "full version" to third parties, under the condition that the complete software product is transferred (including all components, the storage media and the printed material) and that the third party agrees to the terms of this user agreement before using the software product. The user is obliged to make a written agreement with the third party that corresponds to the regulations of this agreement.

7.2 Right of termination

Notwithstanding other rights, VEGA is authorized to terminate this user agreement if the user violates the regulations of the agreement. In such case, the user is obliged to deinstall the software immediately and destroy or give back to VEGA all copies of the software product and all of its components, particularly the software product certificates.

7.2 Copyright

The proprietary rights and the copyright to **DTM Collection** (including the accompanying printed material and all copies) belong to VEGA or its suppliers and are protected in particular by German copyright laws and international copyright agreements as well as relevant international property rights agreements, in particular TRIPS, RBÜ and WCT, along with other laws and agreements on intellectual property.

7.2 Miscellaneous

As far as no other regulations are mentioned elsewhere in this document, the general terms of sale, delivery and payment of VEGA (<u>www.vega.com/agb</u>) apply – these are an inseparable component of the user agreement and the user must agree to abide by them. German law applies here under exclusion of international civil law. Place of jurisdiction is Mannheim.



												ហ
												547-
												230
												302





												ហ
												547-
												230
												302



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

© VEGA Grieshaber KG, Schiltach/Germany 2023

CE

VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach Germany

Phone +49 7836 50-0 E-mail: info.de@vega.com www.vega.com