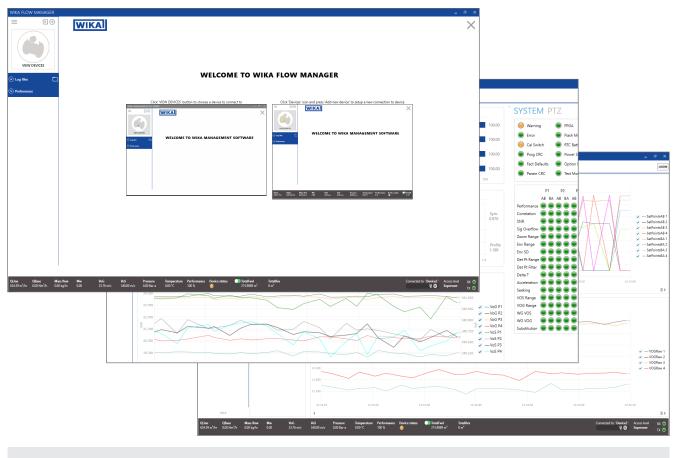


Quickstart Manual

WIKA Flow Manager

ΕN



Software



Tel.: 03303 / 50 40 66 Fax.: 03303 / 50 40 68 EN WIKA Quickstart Manual **WIKA Flow Manager**

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Additional languages available on www.wika.com

Prior to starting any work, read the operating instructions!

Reading this manual thoroughly, you will be able to perform correct installation and fully use the product in total safety. Keep for later use!

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1. Introduction

This manual provides information for installing and performing the basic functions of WIKA Flow Manager (WFM). It is the Microsoft Windows based software to program, run diagnostics and troubleshoot the FLC-EM series ultrasonic gas flowmeter. It contains guidelines for setting up a connection and perform the basic functions in WFM. Before operating the product read and understand this manual. Strictly follow the safety instructions and warnings.



ATTENTION!

In the event of questions or need for additional information regarding specific matters about the FLC-EM Series, please refer to the Installation and operating instructions or contact WIKA via email or telephone.

This Quickstart manual is based on the latest information at the time of writing. It is provided subject to changes and updates. We reserve the right to change the configuration and/or construction of our products at any time without obligation to update previously shipped products.

The warranty provisions stipulated in our Terms and conditions are applicable to the product. WIKA shall have no obligation in the event that:

- Repair or replacement of equipment or parts has been required through normal wear and tear, or due to negligence of the purchaser;
- The equipment, or parts, have been maintained or repaired by other than an authorized representative of WIKA, or have been modified in any manner without prior express written permission of the manufacturer;
- Non-original parts are used;
- Equipment is used improperly, incorrectly, carelessly or not in line with its nature and/or purpose;
- Use of this product with unauthorized equipment or peripherals, including, but not necessarily limited to, cables, testing equipment, computers, voltage, etc.

WIKA is not responsible for the incidental or consequential damages resulting from the breach of any express or implied warranties, including damage to property, and to the extent permitted by law, damage for personal injury. No license is required for WIKA Flow Manager. These software programs are provided on an as-is basis.

In no case WIKA will be liable for direct, indirect, incidental or consequential damages resulting from a defect in the software, or the unintentional or deliberate misuse of the software.

1.1 Conventions

The following symbol and indication conventions are used throughout this manual.



WARNING!

A warning indicates hazards or unsafe practices that could result in severe personal injury or death.

ATTENTION!

This sign indicates potential hazardous or unsafe operations that could result in minor personal injury or damage of product or property. It is also used to indicate operations or practices that could cause the product to operate in an unexpected way or provide results outside its specification.

1.2 Related documents

The last version of the referenced document is leading, unless otherwise specified.

[1] FLC-UFL Series Safety Instructions

Author: Euromisure

Document Code: 81500907 FLC-UFL Series Safety Instructions.

[2] FLC-UFL Series Operating Instructions

Author: Euromisure

Document Code: 81500908 FLC-UFL Series Installation, Operation and Maintenance Manual

1.3 Abbreviations

The following abbreviations may be used throughout the document:

ATEX	ATmosphère Explosive
CSA	Canadian Standards Association
EMC	Electromagnetic Compatibility
FM	Factory Mutual
IEC	International Electrotechnical Commission
IECEx	International Electro technical Commission certification scheme for Explosive atmospheres
IS	Intrinsic Safety
ISO	International Organization for Standardization
LCD	Liquid Crystal Display
OIML	Organisation Internationale de Métrologie Légale
PCBA	Printed Circuit Board Assembly
RTF	Rich Text Format
SPU	Signal Processing Unit
WFM	WIKA Flow Manager
USM	Ultrasonic Flow meter

2. Installation

This chapter describes the minimum system requirements and instructions for the installation of WFM.

2.1 Minimum system requirements

The minimum system requirements necessary to run WIKA Flow Manager are:

- Windows 7 or higher with .NET framework 4.6 or higher;
- Installation requires Local Administrator Rights;
- Free disk space with a minimum of 500 MB;
- 4 GB RAM

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Screen resolution of 1366 x 768 or better for optimum viewing experience.

2.2 Installing WFM



ATTENTION!

We recommend installing WFM under the account of the user that will use it. The user will need to have administrator rights to install WFM.

Go to the WIKA website download section and download the latest version of WFM. Save it to your downloads folder. When the download is complete, open the installer package and follow the steps below to complete the installation.

1 - Run the WikaInstaller165.msi Windows might give you a warning message when it doesn't recognize the app. Click **More Info** and then click **Run anyway** to proceed.





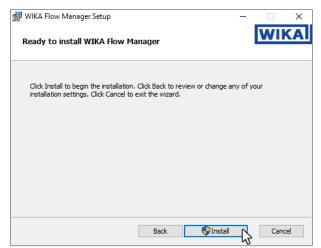
2 - Click Next in the following screen.



3 - Click next to accept the default installation folder or press Change to change the destination folder.

🕼 WIKA Flow Manager Setup	_		×
Destination Folder		WI	KA
Click Next to install to the default folder or click Change to choose an	other.		
Install WIKA Flow Manager to:			
C:\Program Files (x86)\WIKA Flow Manager\			
Change			
	_		
Back Next	t	Can	icel

4 - Click **Install** to begin the installation. When Windows asks you to confirm the installation, click **Yes** to proceed with the installation.



5 - The following screen shows when the installation completed successfully. Press Finish to complete the installation.



A shortcut is created in the windows start menu. Click on the windows button and search for WIKA Flow Manager. For easy access it is recommended to create a shortcut on the desktop or pin it to the taskbar.

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3. General information

3. General information

3.1 User interface

After WFM starts up the OVERVIEW screen will appear. This is the main screen for viewing live data and allows to easily observe the device status. The screen is divided in four main sections.

1. Navigation pane (left side)

This section of the screen contains the devices list, logfile list and preferences options.

2. Main information section (middle part)

This section contains bar graphs and charts of the main diagnostics.

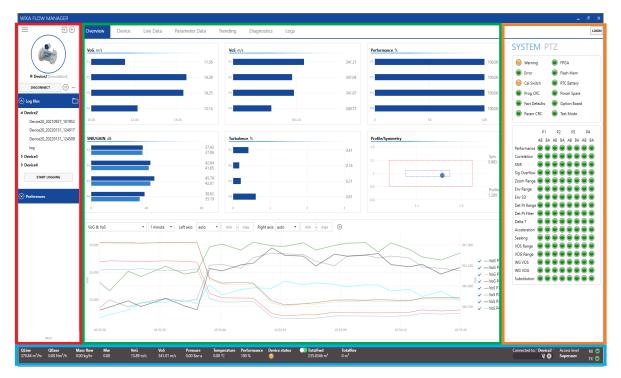
3. Diagnostic status section (right hand side)

This section shows real time device status information.

4. Status bar

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It shows general information from the device as well as connection information.



3.2 WFM Preferences

Preferences and general information about WFM can be accessed under Preferences in the left navigation pane.

- GENERAL
- Preferences and settings for device connection and properties settings can be set here;
- FILE LOCATIONS
 - Default file location folder settings can be found here;
- EMAIL Default email address settings can be found here;
 ABOUT

Information about WIKA Flow Manager

3.3 User levels

There are three user levels in WIKA Flow Manager.

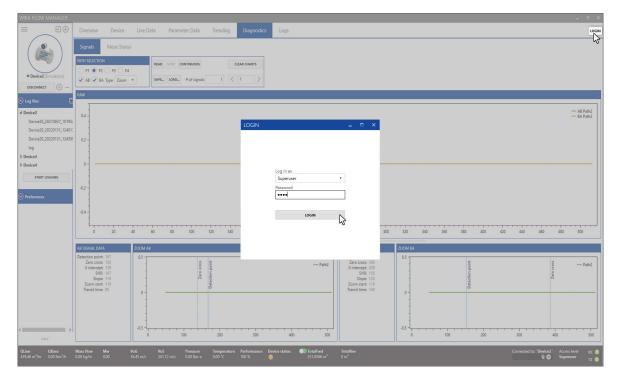
- User: this is the entry level and requires no password;
- Service: this is the user level for general commissioning, service and troubleshooting activities;
- Superuser: this level allows to edit all parameters of the FLC-UFL Series flowmeter.



ATTENTION!

Regardless of the user level, the parameter access in the FLC-UFL Series flow meter is controlled by the calibration switch on the device. When it is closed, only parameters that do not affect the metrological performance can be changed.

WIKA Flow Manager starts up at the **User** user level. No login is required for this level. To change the user level click on the **Login** button in the upper right corner of the window. The login pop-up window appears. Select the desired user level, enter the password and click **Login** to change to that user level.



The active user level is shown in the status bar on the right.

Disconnected	Access level	rx 🔵
	Superuser	тх 💿

Depending on the user level several menu items or tabs are available.

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4. Devices

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4.1 Adding a device

To add a device press the + button to open the device settings dialog pop-up window.

Enter a device name for the device you are connecting to. Configure the COM port settings. Factory default settings for the FLC-UFL Series flow meters are:

■ USB Port 115200, No parity, 1 stopbit, Device ID = 1

RS485 port 38400, No parity, 1 stopbit, Device ID = 1

Choose the version of the parameter file you want to use.

IKA FLOW MANAGER	1			
=	Overview	Device	Live Data	Para
A	dd new device			
	VoG, m/s			
	P1			0.
• Device2 [Simulation]	P2			0.
CONNECT	P3			0.
Log files 📄				
Preferences	P4			0.
Freierences	-0.50			
	SNR/GAIN, d	В		
	P1			0
	F1			
	P2			0
	P3			
				0
	P4			

DEVICE SET			_ ¤ ×
Device name	Device3		Version ~
ast configura.			
CONNECTION	I SETTINGS	SITE INFORMATION	
COM Port COM Port Baud Rate 115200 Parity NONE Stopbits 1 1 Time-out 1000 Device ID	• • • • •	Site/Station name Device name Company Address ZIP Code City Country Description	
1 Use seco	nd device ID		SAVE CANCEL



ATTENTION!

When unsure what parameter version to use, check on the device, system info.

Optionally provide site information. This information is used in reports such as a parameter report. Press **Save** to complete the process and add the device to the devices list.



ATTENTION!

All properties entered for a device and data collected with WIKA Flow Manager is stored locally on the PC, not on the device itself.

4.2 Adding a device for demo mode (simulation mode)

To add a device press the + button to bring up the device settings dialog, then select the simulation mode and save the device.

DEVICE SETTINGS		-		×
Device name Device3		Version		~
Last configuration:				
CONNECTION SETTINGS				
Connection type	Site/Station name			
COM •	Device name			
СОМ ТСР	Company			
Simulation	Address			
Baud Rate	ZIP Code			
Parity	City			
NONE -	Country			
Stopbits 1 Time-out	Description			
1000 Device ID 1				
Use second device ID				
		SAVE	CANC	EL

This device can now be used as if connected to a normal device; when connected to the simulation mode device it will play a default log file and simulate a FLC-UFL Series flow meter measuring flow.

4.3 Connecting to a device

In order to connect to a device, double click on the **Menu icon** on the top left of the Navigation pane. Once the device list pop-up window appears, select among the existing devices and then press the **Connect** button below the product pictire on the top left of the screen. WFM will attempt to connect, read the parameters and then start to read real time data.

WIKA FLOW MANAGER					DEVICES		_ = ×
= ∋ ⊕	Overview	Device	Live Data	Parar	TILE VIEW		
VIEW DEVICES	VoG, m/s P1 P2 P3			0.	Add new device	Device2 Simulation Site/Station undefined	Device3 Simulation Site/Station undefined
• Preferences	P4			0.			
	-0.50 SNR/GAIN, dB P1 P2 P3 P4	0.00			Device4 Simulation Site/Station undefined		
	14			0			CANCEL

4. Devices

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				Overview Device	Live Data Paramete	r Data Trending	
	Overview Device VoG, m/s P1	Live Data Para	Overiez (Simulation) CONNECT ** O Log file O Preferences	Voc. m/s P1 P2 P3 P4 P3 P4 P5 P6 P7 P8 P9 P4 P5 P6 P7 P8 P9 P9 P1 P1 P1 P1 P2 P3 P4 P4 P5 P4 P5 P5		VoS.m/s P1 P2 P3 P4 -0.50	
CONNECT CONNECT Or Log files □ Or Preferences	P2 P3 P4 -0.50 0.00	0.		SNRVGAIN dE Connecting to 'D Trying to connect	evice2'	Turbulence %	
	SNR/GAIN, dB	0 0 0		34.000 97.000 98			
	P3		Qline QBase 0.00 m/hr 0.00 Nm/h	25.000 09.11.22 Mass flow Mw V 0.00 kg/hr 0.00 C	/oG VoS P		9 11.55 09 32 co Performance Device status 0 35

To work offline on a device, single click on that device, WFM then loads the last saved parameters from the computer to allow editing the device parameters without being connected.

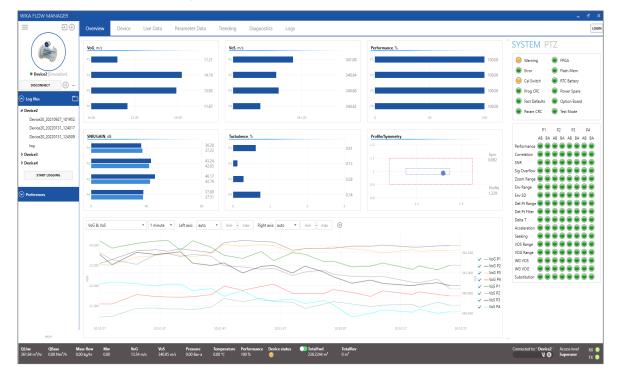


ATTENTION!

In order to work with a device in offline mode, WFM needs to be connected to the device at least once.

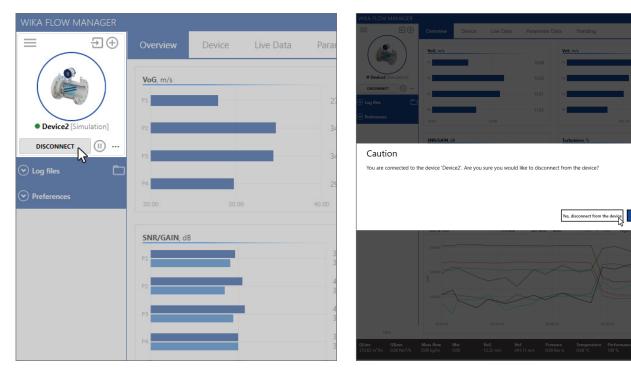
4.4 Entering demo mode

Connecting and editing a simulation device (demo mode) is identical to working with a real device. As soon as WFM connects to the simulation device it will start to play the data.



4.5 Disconnecting from a device

In order to disconnect from a device, click on the **Disconnect** button located below the device picture. WFM will ask to confirm to disconnect. Any logging in progress will also end.



4.6 Changing device properties

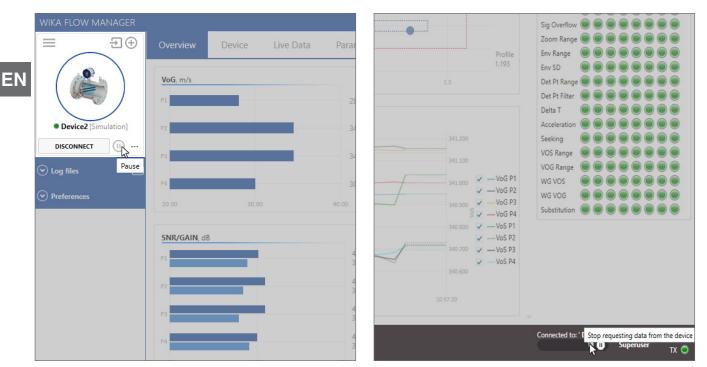
In case certain properties or connection settings of a device need to be changed, disconnect it, click on the **More** icon and select **Properties** from the drop-down menu. The device settings popup window appears, then modify the parameter you want to change and click on the **Save** button.

WIKA FLOW MANAGE					DEVICE SETTINGS		-	□ ×
		Device	Live Data	Parar	Device name Device2 Last connected: 09/27/2021	12:11		
• Device2 [Simulation] CONNECT	WoG, m/s P1 P2 Edit offline Export			0.	Last configuration: CONNECTION SETTINGS Connection type COM • COM Port Baud Rate 38400 • Parity	SITE INFORMATIO Site/Station name Device name Company Address ZIP Code City		
✓ Preferences	Properties Delete P1 P2 P3	0.00			NONE Stopbits 1 Time-out 1000 Device ID 1 Use second device ID	Country Description		
	P4			0			 SAVE	CANCEL

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4.7 Pausing a connection

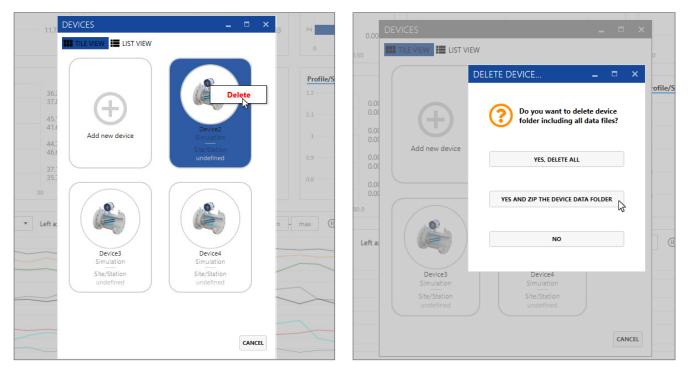
A connection to a device can be paused. Press the **Pause** icon on the right of Disconnect button, or on the bottom status bar in order to temporarily stop polling data from the device until the either one of the two pause icons is pressed again.



4.8 Deleting a device

Disconnect the device you want to remove, open the device list pop-up window (see par. 4.3), right-click on the icon of the device you want to delete and select **Delete**. A pop-up dialog appears. Select the desired option for the delete action:

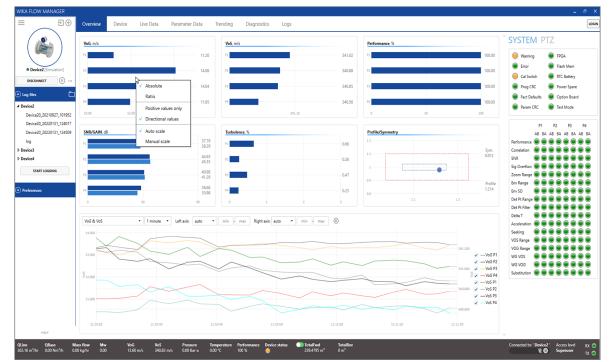
- Yes, delete all for deleting the device and all data from the PC;
- Yes and Zip Device Data Folder for collecting all data from the device and compresses it in a ZIP file. The device and folders will then be deleted;
- **No** for deleting the operation and returning to the previous screen.



5. Operating WFM

5.1 Overview screen

Starting up WIKA Flow Manager the overview screen appears, showing different bar charts and a trending window available to view diagnostic information about the operating conditions of the device and its application. Several options for each bar chart are available, e.g. scaling and other settings.;Click on each bar chart using the right mouse button to open the options pop up menu and set them as required. The **Trending area** has pre-configured trace sets to easily display combinations of diagnostics over time. Two Y-axes are used, one on the left and one on the right. Both are auto-scale by default but they can be set to a manual range if required.



5.2 Device information screen

The **Device/System Info** screen provides essential information about the device, e.g. serial numbers, software versions and checksums. It also shows the totalizer values (volume counters).

WIKA FLOW MANAGER													-	° ×
=∃⊕	Overview D	evice Live Data	Parameter Da	ata Trending Diagr	nostics Log	js								LOGI
	System info	Outputs PTZ	Comms A	AutoTw										
	GENERAL INFORMATIC	N	UNITS		TOTALIZERS				SITE INFORMATIO	N		1		
Device2 [Simulation]	Device type	FLC-UFL-4F	Device units	Metric *		Forward	Reverse		Site/Station name	Plant				
DISCONNECT (I)	Device serial no.	0	Units Qbase	Use defaults 💌	Actual	218.9555	0	m	Device name	Device2				
	Meterbody serial no.	0	Temperature un	nits "C	Actual - Error	28.9624	0	m³	Company	WIKA				
🕞 Log files 🗖 🗋	Custom ID no.	0	Pressure units	Bar-a	Base	0	0	Nm ^a	Address					
4 Device2	Spare current	47.5			Base - Error	0	0	Nm ³	ZIP Code					
Device20_20210927_101952 Device20_20220131_124017	RESTART DEVICE	LEAR TRANSIENT ERROR			Totalizer mode	Mode 1 •			City					
Device20_20220131_124509					RESI	ET ALL ACTUAL VOLU	ME TOTALIZERS		Country					
log									Description					
Device3	SAVE CHANG	SES IN DEVICE			RE	SET ALL BASE VOLUN	IE TOTALIZERS							
Device4	VERSIONS AND CHECK	SUMS	JL		DATE & TIME				SERVICE			Í.		
START LOGGING	Firmware version	2.0.1	Checksum 0x30	D60769A	Device date/ti	me: N/A				CREATE SER	IVICE PACKAGE	1		
• Preferences	FPGA Version	2.0.1			Time zone		ted Universal Time			CREATE MAIN	TENANCE REPORT	íl -		
Preferences	Parameter version	2.0.0	Checksum 0x20	C3FF656	UTC offset							'		
	Slot1 ID				Support da	aylight saving time			PARAMETERS			1		
	Slot1 Firmware version	n	Checksum 0x00	0000000		Select a date		14	SAVE PARAN	IETERS TO FILE	C:\Users\Paola\Documents\WIKA FI			
	Slot2 ID				DST end date	Select a date		14	LOAD PARAME	TERS FROM FILE	C:\Users\Paola\Documents\WIKA FI			
	Slot2 Firmware version	n	Checksum 0x00	0000000	DST UTC offset	t		_	CREAT	REPORT]			
					SYNC WITH	H PC TIME	CHANGE DST				5			
	Last connected : 02/04	/2022 09:24										-		
	Last configuration : cor	nfigs\UIM\UIM_2.0.0_ParamsW	ClassNames.xml											
HELP														~
QLine QBase Mi 633.84 m³/hr 0.00 Nm³/h 0.0	ass flow Mw 10 kg/hr 0.00	VoG VoS 23.73 m/s 340.82	Pressure m/s 0.00 Bar-a	Temperature Performane 0.00 °C 100 %	e Device status	TotalFw 218.9555	d TotalR im ³ 0 m ³	ev .				Connected to: ' Device2 '	Access level Superuser	rx 💿 Tx 💿

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5.2.1 Creating a parameter report

To create a parameter report from a connected device or a saved parameter file of another device click **Create Report** on the **System Info** tab. A pop-up dialog will appear to select from which source to create the report. Select **From Connected Device** to create a report of the connected device's parameters.

Device2, 2022/03 1, 124017 Device2, 2022/03 1, 12459 log b Device3 > Device4 VERSIONS AND CHECKSIMS	Units Qbase Temperature unit Pressure units	Metric • Use defaults • its °C Bar-a	TOTALIZERS Forward Actual 2335755 Actual Energ 28954 CREATE REPORT	Reverse 0 m ⁴ 0 m ³	Device name Company Address ZIP Code City Country	name Plant			
Usered () Immuted) Device () Immuted) Descener () Immuted) Device () Immuted) Device () Immuted) Start () Immuted) Device () Immuted) Start () Immuted)	Units Qbase Temperature unit Pressure units	Use defaults *	Actual 233.5755 Actual - Error 28.9624	0 m ³	Device name Company Address ZIP Code City Country	e Device2			
Device4 START LOGGING VERSIONS AND CHECKSUMS					Description				
START LOGGING			FROM CONNECT	D DEVICE					
Preferences Firmware version 2.0.1 Preferences 20.1 Parameter version 2.0.0			FROM FIL	E ·	SERVICE		RVICE PACKAGE		
Slot1 ID Slot1 Firmware version Slot2 ID	Checksum 0x000	000000	FROM LOADED PA	RAMETERS	LOAD PA	PARAMETERS TO FILE	C\Users\Paola\Documents\WIKA FI C\Users\Paola\Documents\WIKA FI	Ĩ	
Slot2 Firmware version Last connected : 02/04/2022 0/ Last configuration : configs/UII	Checksum 0x000	00000	-	CANCEL		CREATE REPORT]		

Next, a window will open with a preview of the report. Select **Save as...** to save the report as an *.RTF file, that can be opened in Microsoft Word. Click **Cancel** to cancel the operation.

WIKA FLOW MANAGER			_ ð ×
=∋⊕	Overview Device Live Data Para	meter Data Trending Diagnostics Logs	LOGIN
	System info Outputs PTZ Com	ns AutoTw	
	GENERAL INFORMATION REPORT PREVIEW	-	
	Device type FLC-U		•
Device2 [Simulation] DISCONNECT (I) ···	Device serial no. 0		
	Meterbody serial no. 0		
✓ Log files	Custom ID no. 0	WIKA	
Preferences	Spare current 46.8		
	RESTART DEVICE CLEAR TR	Site Identification	
		Site / Station name Plant Device Name Device2	
	SAVE CHANGES IN DE	Description Company WiKA	
	VERSIONS AND CHECKSUMS	Address City, Zip Code	
	Firmware version 2.0.1	Country	
	FPGA Version 2.0.1	Device Identification	1 I
	Parameter version 2.0.0	Device type FLC-UFL-4F System units Metric Device Serial 0 Flowbody serial 0	
	Slot1 ID	Custom ID no. 0 Meterfactor D0 9000	
	Slot1 Firmware version	Totalizer mode Mode 1 Firmware version 2.0.1 Checksum 0x3D60769A	
	Slot2 ID Slot2 Firmware version	Parameter version 2.0.0 Checksum 0x2C3FF656	5
		Slot1 ID	
	Last connected : 01/31/2022 1	Slot 2 ID	
	Last configuration : configs\UII		
		Flowbody Parameters Flowcell type 1 inside diameter 0.1022 (m)	
		ender and a second seco	v
		SAVE AS	CANCEL
		4) */	
HELP			~
QLine QBase 633.99 m ⁸ /hr 0.00 Nm ⁸ /h	Mass flow Mw VoG VoS 0.00 kg/hr 0.00 23.74 m/s 340.84 m/s	Pressure Temperature Performance Device status)] TotalFwd TotalRev 0.00 Bar-a 0.00 °C 100 % 🧔 221.6601 m ⁴ 0 m ⁴	Connected to: 'Device2' Access level RX O Connected to: 'Device2' Access level RX O Superuser TX O

5.2.2 Saving a parameter set to file

The parameters of the device can be written to an *.XML file and saved in a dedicated folder by pressing **Save parameters to file...** button on the **Device/System Info** tab. This file can be used later to easily write the same parameters to a device again.

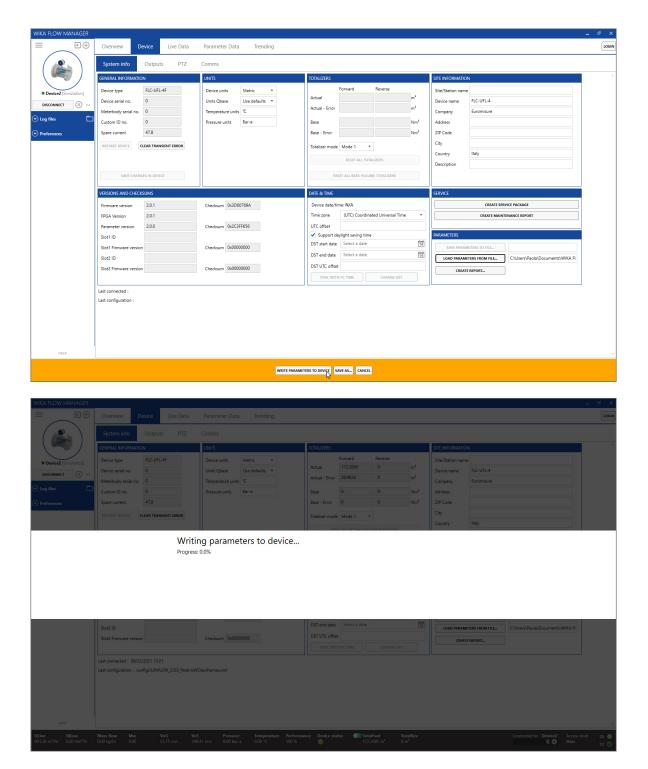
• • • • • • • • • • • • • • • • • • •	Salva con nome					×							
Desktop Nome Ultima medifica Tipo Dimensione Discumento XML Tipo Dimensione Documento AppAdMs, FLC-UFL-4F_0, 20210921, 1141.xm 200/0021 1142. Documento XML 13 KB Image: Statistica Currento Statistica Currento <th></th> <th>/IKA Flow Manager > Devices > Device2 > Para</th> <th>meterFiles ~</th> <th>ලී 🔎 Cerca in Par</th> <th>rameterFiles</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		/IKA Flow Manager > Devices > Device2 > Para	meterFiles ~	ලී 🔎 Cerca in Par	rameterFiles								
 	Organizza 👻 🛛 Nuova d	cartella			B E •	2 ₈₅				SITE INFORMATIC	N		
Decuments // Pownlest /	📃 Desktop 🛛 🖈 ^	Nome	Ultima modifica	Tipo Di	imensione		Francis	0			-		
Device and Immunging // OK PARAMS, FLC-UFL-6, 2021019, 1142	🗎 Documenti 🖈	PARAMS_FLC-UFL-4F_20210921_1141.xml	21/09/2021 11:41	Documento XML	131 KB					Site/Station nam	2		
OK OK <td< td=""><td>🕹 Download 🖈</td><td>PARAMS_FLC-UFL-4F_0_20210921_1142.x</td><td>21/09/2021 11:42</td><td>Documento XML</td><td>129 KB</td><td></td><td>204.5352</td><td>U</td><td>m"</td><td>Device name</td><td>FLC-UFL-4</td><td></td><td></td></td<>	🕹 Download 🖈	PARAMS_FLC-UFL-4F_0_20210921_1142.x	21/09/2021 11:42	Documento XML	129 KB		204.5352	U	m"	Device name	FLC-UFL-4		
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SYNC WITH PC TIME CHANNEE DST					1	SYNC WIT	H PC TIME	CHANGE DST					
Last connected : 09/22/0211321													

5.2.3 Writing a parameter set to a device

For reprogramming a device with a previously saved parameter set (for example after swapping out electronics) the parameters can be written to the device by pressing **Load Parameters from File...** An open file dialog window will open to browse to the desired *.XML parameters file. After opening, an orange popup message will appear on the bottom status bar to select the required operation. Select Write parameters to device to rewrite the parameter set to the device.

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Nuova ci	<u>^</u>	Ultima modifica	Tipo	Dimensione	RS				SITE INFORMATION	N		
🖈 Accesso rapido						Forward	Reverse		Site/Station nam	e		
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	Slot2 Firmware version	Checksum 0x	00000000			ITH PC TIME	CHANGE DST		CREA	TE REPORT]	
	Last configuration : configs\UIM\UIM_20.0_Para	msWClassNames.xml										

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ATTENTION!

WFM verifies if the parameter file version is compatible with the connected device parameter version. When the version is not compatible, it will not write the parameters to the device.

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5.2.4 Updating 1.X.X to 2.X.X parameter file

It is possible to load parameter files of an older version into a device. To do so, first load the parameters in offline mode, then connect to the device. WFM alerts the user that some parameters were changed. To use the new ones, choose **Write changes to device**. Another warning message shows up to alert the user that all parameters in the device will be overwritten, choose **Yes** to confirm.

WIKA FLOW MANAGER	Overview Device Live Data	Parameter Data Trending			_ & ×
	System info Outputs PTZ	Comms			
	GENERAL INFORMATION	UNITS	TOTALIZERS	SITE INFORMATION	
Device2 (Simulation)	Device type FLC-UFL-4F	Device units Metric *	Forward Reverse	Site/Station name	
DISCONNECT (1)	Device serial no. 0 Meterbody serial no. 0	Units Qbase Use defaults * Temperature units "C	Actual 172.2685 0 m ² Actual - Error 28.9624 0 m ²	Device name FLC-UFL-4 Company Euromisure	
🐑 Log files 👘	Custom ID no. 0	Pressure units Bar-a	Base 0 0 Nm ⁸	Company Euromisure Address	
Preferences	Spare current 47.8		Base - Error 0 0 Nm ⁸	ZIP Code	
	RESTART DEVICE		Totalizer mode Mode 1 •	City Country Italy	
		Some parameters has been	changed while device was offlin	e	
			Ignore	Vrite changes to device Save to parameters file	
	Slot2 ID		DST end date Select a date	LOAD PARAMETERS FROM FILEC:\Users\Paola\Documents\WIKA FI	
	Slot2 Firmware version	Checksum 0x0000000	DST UTC offset SYNC WITH PC TIME CHANGE DST	CREATE REPORT	
	Last connected : 09/22/2021 13:21				
	Last configuration : configs\UIM\UIM_2.0.0_Param	sWClassNames.xml			
HELP					-
QLine QBase 901.26 m ³ /hr 0.00 Nm ³ /h	Mass flow Mw VoG 0.00 kg/hr 0.00 33.75 m/s	VoS Pressure Temperature Perform 340.41 m/s 0.00 Bar-a 0.00 °C 100 %	ance Device status TotalFwd TotalRev	Connected to: 'Device2 ' Acces	is level RX 🔵
WIKA FLOW MANAGER					- 8 X
÷	Overview Device Live Data	Parameter Data Trending			LOGIN
	System info Outputs PTZ				_
	GENERAL INFORMATION Device type FLC-UFL-4F	UNITS Device units Metric •	TOTALIZERS Forward Reverse	SITE INFORMATION	
Device2 [Simulation] DISCONNECT (I)	Device type FLC-UFL-4F Device serial no. 0	Device units Metric * Units Qbase Use defaults *	Actual 172.2685 0 m ³	Site/Station name Device name FLC-UFL-4	
 ○ Log files 	Meterbody serial no. 0	Temperature units	Actual - Error 28.9624 0 m ^a	Company Euromisure	
Preferences	Custom ID no. 0 Spare current 47.8	Pressure units Bar-a	Base 0 0 Nm ⁸ Base - Error 0 0 Nm ⁸	Address ZIP Code	
	RESTART DEVICE CLEAR TRANSIENT ERROR		Totalizer mode Mode 1 *	City	
		All parameters in device wil		Country Italy	
		All parameters in device wil Are you sure?	n be overwritten		
		,,			
				Ves No	
	Slot2 ID		DST end date Select a date	LOAD PARAMETERS FROM FILECAUsers\Paola\Documents\WIKA FI	1
	Slot2 Firmware version	Checksum 0x0000000		CREATE REPORT	
	Last connected : 09/22/2021 13:21				
	Last configuration : configs\UIM\UIM_2.0.0_Param	sWCiassNames.xml			
HELP					
QLine QBase					s level RX 🔘



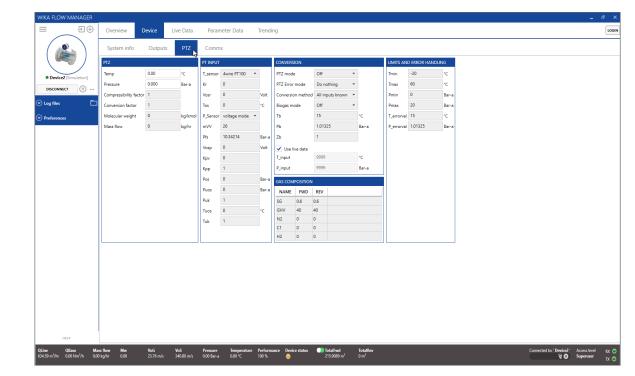
ATTENTION!

Newer parameter files have more parameters; these are not read from the old parameter and their values remain at factory default values. Verify these parameters to ensure they are all set to the required values.

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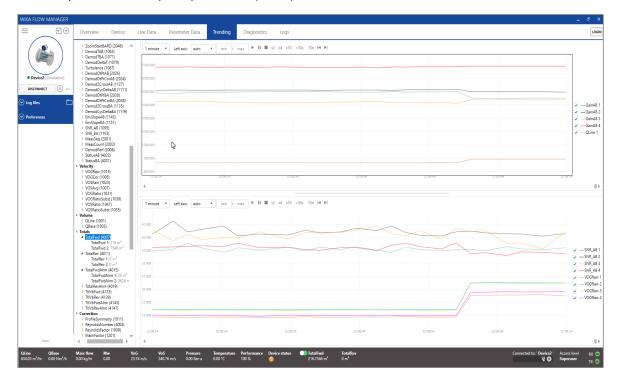
After loading the parameters go to the **PTZ** tab. Parameters that were not loaded from the file are identified in red and can be manually updated. Refer to the examples shown below.



5.3 Trending and logging

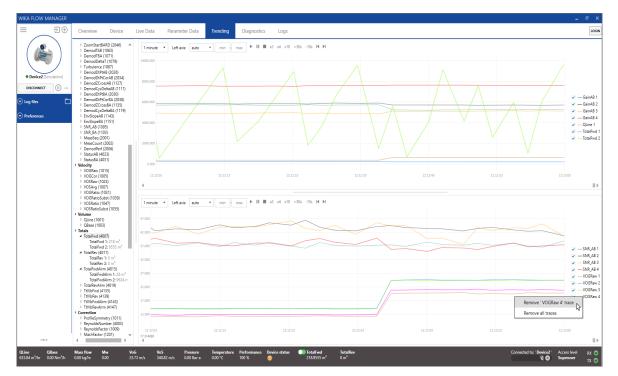
5.3.1 Trending live data

When connected to a device, using the **Trending** tab it is possible to display any result parameter over time. The parameters can be selected by the "drag and drop" principle. Drag a parameter from the parameter tree left of the chart areas and drop it in the chart area to plot the values. Up to 8 parameters (traces) can be trended at the same time.



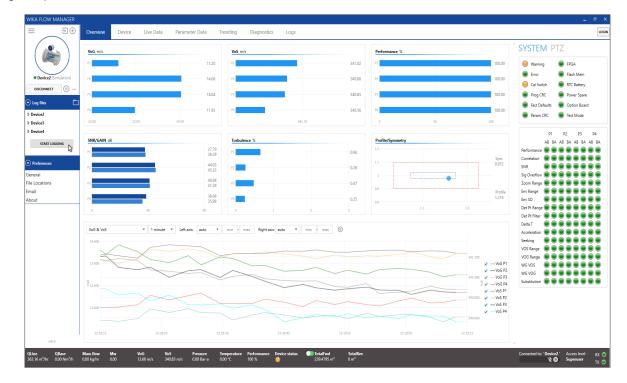
5. Operating WFM

Traces can also be removed again from the trend area. Right click on the trace name in the legend to the right of the trend, a pop up dialog will appear to select the desired option.



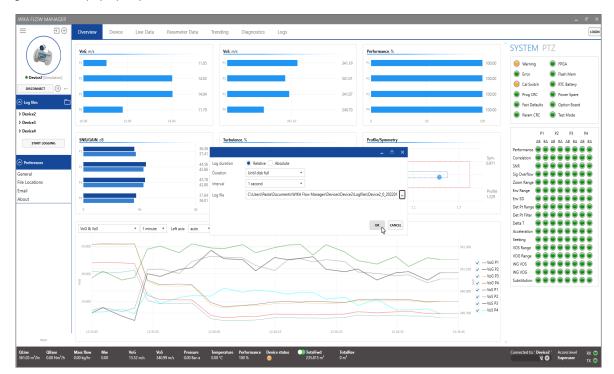
5.3.2 Logging data to a file

Logging data on the PC can be started at any time when connected to a device. Press the **Start logging** button on the left navigation pane.

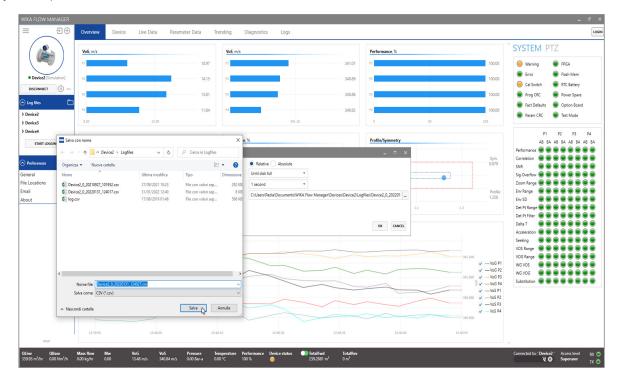


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A dialog window will pop up to provide a file name.

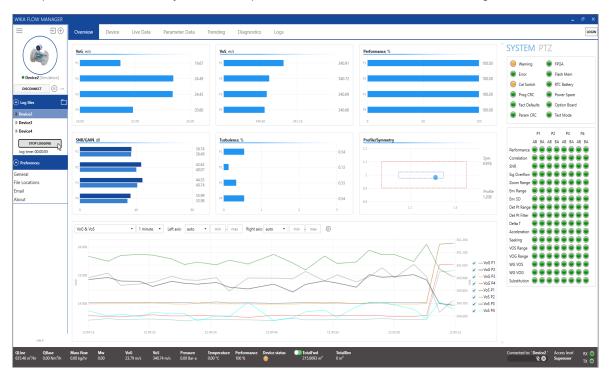


Logs are saved in CSV (Comma Separated Values) format. Log files can be easily imported in a spreadsheet editor for further analysis if required.



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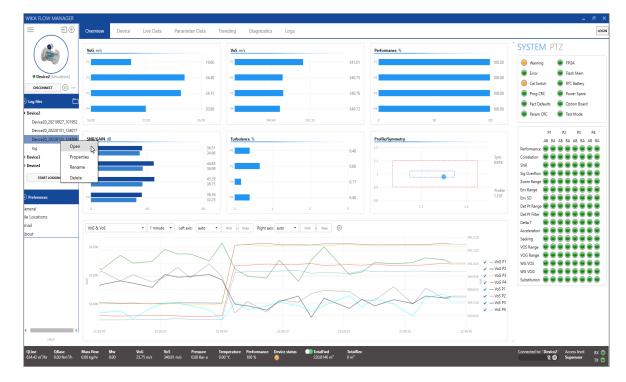
5. Operating WFM



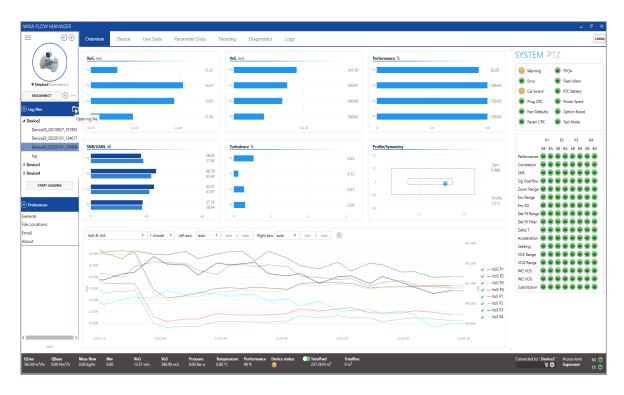
Logs can be paused and started at any time with the pause button located on the bottom of the log files section.

5.3.3 Playback of logged data

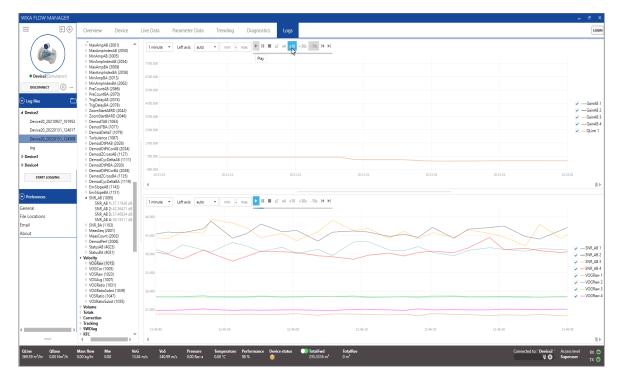
WFM can open and play back previously created log files. Log files can be selected from the left hand navigation pane in the Log files tree, or opened using the **Open log file** icon button on the right hand of the Log files title section.





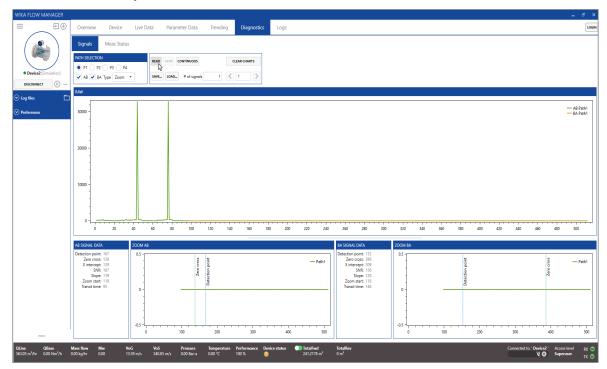


The trend windows work exactly the same as the Trending tab. Furthermore additional controls can be used such as fast forward, faster playback. These buttons are available in the trending window.



6. Diagnostics

When logged in under Service or Super user level the **Diagnostics** tab is available. This tab allows to view the received signals of the transducers. Signals can be viewed directly from the connected device. Previously saved signal sets can also be loaded in WFM for further analysis when offline from the device.



6.1 Create Service Package

For troubleshooting purposes a dedicated function is available to create a **Service Package**. This feature collects data from the device and compresses it in a ZIP file, that can be sent to an expert at WIKA or your sales representative for further analysis. The package contains a short log file, parameter data and signal data. Press the **Create Service Package** button on System info window to start collecting the data. The following screen appears, wait until WFM has completed all 5 steps. Note that this process takes several minutes to complete.

	GENERAL INFORMATIO	N	UNITS		TOTALIZERS				SITE INFORMATIO	N		
evice2 [Simulation] CONNECT (1) Hes Connect	Device serial no. Meterbody serial no. Custom ID no. Spare current RESTART DEVICE CO	0 46.8 LEAR TRANSIENT ERROR	Device units Units Qbase Temperature units Pressure units	Metric • Use defaults • 5 C Ban-a	Actual Actual - Error Base Base - Error Totalizer mode	0 0 Mode 1	UME TOTALIZERS	m ¹ m ² Nm ³	Site/Station name Device name Company Address ZIP Code City Country Description	Plant Device2 WIKA		
	SAVE CHANG VERSIONS AND CHECKS Firmware version FPGA Version		Checksum 0x3D6	50769A	DATE & TIME Device date/ti Time zone		inte totalizers		SERVICE			
		2.0.0	Checksum 0x2C3 Checksum 0x000		UTC offset Support da DST start date	nylight saving tim Select a date Select a date		14		AETERS TO FILE	C:\Users\Paola\Documents\WIKA Fi	
	Slot2 Firmware version		Checksum 0x000	100000	DST UTC offse		CHANGE DST			E REPORT]	
		figs\UIM\UIM_2.0.0_ParamsWC	lassNames.xml									

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	Overview	Device Live	e Data Parameter Data	a Trending									. 🗗 🗙
	System info	Outputs											
	GENERAL INFORMATI	ION	UNITS		TOTALIZERS				SITE INFORMATION				
Device4 [Simulation]	Device type	FLC-UFL-4F	Device units	Metric *		Forward 244.9867	Reverse 0	m²	Site/Station name				
DISCONNECT II	Device serial no. Meterbody serial no.	0	Units Qbase Temperature units	Use defaults *	Actual - Error			m²	Device name Company				
			Creating service										
			1 Collect log data		ß								
			2 Create parameter	r report									
			3 Create parameter	r XML file									
			4 Collect signal dat		C								
			Collecting signal data o Save service pack										
									CANCEL				
HELP P		:onfigs\UIM\UIM_2.0.	20_ParamsWClassNames.xml										
QLine QBase 361.64 m³/hr 0.00 Nm³/h	Mass flow Mw 0.00 kg/hr 0.00	v VoG) 13.54 m/s	VoS Pressure I/s 340.94 m/s 0.00 Bar-i	re Temperature Pe r-a 0.00 °C 10	Performance Device stat	tus DotalF 244.98	lFwd Total 1867 m ³ 0 m ³	Rev		°	onnected to: ' Device4 '	Access level User	RX C TX C

6.2 Create Maintenance Report

WIKA Flow Manager allows to collect as report specific information about mantenaince activities intended to keep smooth operations.

Press the Create Maintenance Report button on System info window to start collecting the data.

WIKA FLOW MANAGER				,	- ª ×
⊕ ⊕ ⊕	Overview Device Live Data	Parameter Data Trending D	iagnostics Logs		LOGIN
	System info Outputs PTZ	Comms AutoTw			
	GENERAL INFORMATION	UNITS	TOTALIZERS	SITE INFORMATION	^
Device2 [Simulation]	Device type FLC-UFL-4F	Device units Metric 🔻	Forward Reverse	Site/Station name Plant	
DISCONNECT (II) ···	Device serial no. 0	Units Qbase Use defaults 💌	Actual 226.4131 0 m ³	Device name Device2	
	Meterbody serial no. 0	Temperature units ¹ C	Actual - Error 28.9624 0 m ²	Company WIKA	
Solution State	Custom ID no. 0	Pressure units Bar-a	Base 0 0 Nm ⁴	Address	
Preferences	Spare current 47.2		Base - Error 0 0 Nm ³	ZIP Code	
	RESTART DEVICE CLEAR TRANSIENT ERROR		RUN OPTIONS _		
			INPUT VALUES	Country	
			Temperature: 0.0 °C	Description	
	SAVE CHANGES IN DEVICE		Pressure: 0.0 MPa		
	VERSIONS AND CHECKSUMS		VoS AGA10: 0.0 m/s	SERVICE	1
	Firmware version 2.0.1	Checksum 0x3D60769A	GET FROM FLUID PROPERTIES CALCULATION	CREATE SERVICE PACKAGE	
	FPGA Version 2.0.1		Use current data Take new data	CREATE MAINTENANCE REPORT	
	Parameter version 2.0.0	Checksum 0x2C3FF656		-0	
	Slot1 ID			PARAMETERS	
	Slot1 Firmware version	Checksum 0x0000000		SAVE PARAMETERS TO FILE C:\Users\Paola\Documents\WIKA FI	
	Slot2 ID			LOAD PARAMETERS FROM FILE C:\Users\Paola\Documents\WIKA FI	
	Slot2 Firmware version	Checksum 0x0000000		L CREATE REPORT	
	Last connected : 01/31/2022 11:18				J
	Last connected : 01/31/2022 11:18 Last configuration : configs\UIM\UIM_2.0.0_Parar	msWClassNames.xml			
HELP					~
	Mass flow Mw VoG 1 0.00 kg/hr 0.00 23.87 m/s	VoS Pressure Temperature Perfi 340.78 m/s 0.00 Bar∙a 0.00 °C 100 °	rmance Device status 🕕 TotalFwd TotalRev 6 🥥 226.4131 m ¹ 0 m ¹		Connected to: 'Device2 ' Access level RX O Superuser TX O

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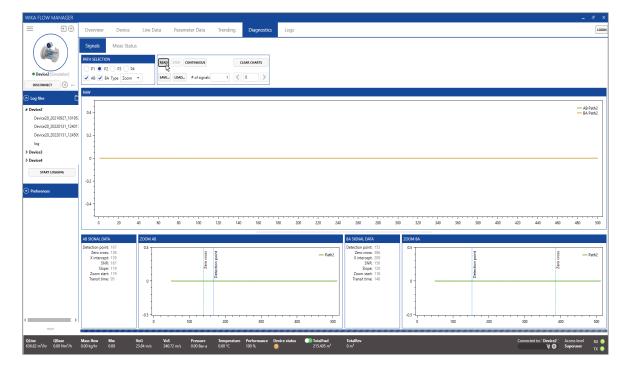
Organizza 🔻 Nuova cartella 🛛 🔠 👻 👔	TOTALIZERS	SITE INFORMATION	
Nome Ditima modifica Tpo Dimensione Manifeport Device2,0,2223111,14934L 31/01/20221409 Foglio di lovero di 110.85 effetudita +	Forward Reverse Actual 228.1117 0 m ² Actual-Error 28.9624 0 m ³ Base 0 0 Nm ⁴ Base - Error 0 0 Nm ⁴ Totalizer mode Mode 1 •	Site Station name Plant Device name Device2 Company WKA Addess 28P Code City County	
Nome file Meet/Spot Deversity (\$2000)110,445.51tm v	REST ALL ACTUAL VOLUME TOTALIZERS REST ALL EASE VOLUME TOTALIZERS DATE & TIME Drive data/filme: N/A	Description SERVICE CREAT SERVICE INCOME	
Salva come: XLSX (*xlsx)	Time zone (UTC) Coordinated Universal Time *	CREATE SERVICE PACKAGE	
Naccodi cartele Salva Annula Sot 1 D Sot 1 Firmware version Soc 2 D Sot 2 Firmware version Checksum 0x000000	UTC offset UTC offset UTC offset UTC offset Select a date Select a date Select a date Select a date Select a date Select a date Select a date Select a date Select a date Select a date Select a	ARAMITES SUP ARAMITES TO FIL. CULTURE Pool Document/WICA R LOD PRAMITES FROM FIL. CULTURE Pool Document/WICA R CELAT REPORT.	
Last connected : 01/31/2022 11:18 Last configuration : configetUM/LUM_2.0.0_PeramoWClassNames.uml]]	

6.3 Reading signals from device

To read signals select the Path to read in the **Channel Selection** area. Enter the number of signals to read (WFM can store several signals in a single file, that may be useful for observing dynamic behaviour of the signal). Default number of signals is one. Press **Read** to read the signals. This process takes several seconds; when completed the signals appear on the chart areas.

- RAW Signal: this chart area shows the raw signal (BCW processed);
- ZOOM AB: this chart area shows a zoom in of the AB direction (signal travelled downstream);
- ZOOM BA: this chart area shows a zoom in of the BA direction (signal travelled upstream).

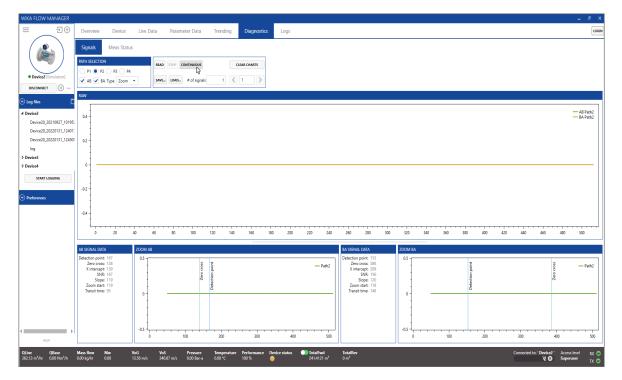
To save the signal to a file, press **Save**. In case signals are already loaded from the device a pop up dialog appears to select to load new signals or save the signals that were already loaded.



To load a signal from file, press Load and select the file to load. The signals will appear in the chart areas.

WIKA FLOW MANAGER	
Device2 [Simulation] DISCONNECT	
Petermone General File Locations Email About	0.4 0.4 0.2 0.2 0.4 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
	0 20 40 60 80 100 120 140 160 180 200 200 200 200 300 300 300 400 420 440 460

To continuously request signal information from the device, click **Continuous** to enable WFM to get continuously get signal data from the meter.



6. Diagnostics

Click Stop to stop requesting data. Note that requesting continuous signal data may slow the response of the device down.

WIKA FLOW MANAGER	Overview Devic	e Live Data	Parameter Data	Trending Di	agnostics	Logs								. & X
• Device2 [Simulation] DISCONNECT 10	Signals Meas SI PATH SELECTION P1 P2 P3 V AB V BA Type Zoo RAW	P4	AVE LOAD. # of signals	CLEAR C										
⊙ Log file: ⊙ Preference: General File Locations Email About	0.4 0.2 - - - - - - - - - - -													AB Path3 BA Path3
	0 20	40 60	80 100	120 140	160 180	200 2	20 240	260 280 30	0 320	340 360	380 400	420 440	450 480	500
10.5	AS SICNAL DATA Detection point: 167,153,13 Zero cross: 157,16006 X intercept: 119,118,09 SNR: 4302235 Zoom start: 229,181,29 Transit time: 274,51004	5,14' 148 31.3 12.5 4,81	100	200			- Path3	EA SIGNAL DATA Detection point: 167,156,138,38 Zero cross: 157,169615,43,1208,010 SNR 45,178967,124,208,010 SNR 45,178967,124,255 Soper 1147,2533,130 Zoom start: 239,187,242,25 Teamst time: 274,310019,34	200M BA 0.5 -0.5 -0.5 0				400	- Path3
QLine QBase	Mass flow Mw 0.00 kg/hr 0.00		VoS Pressure 340.75 m/s 0.00 Bar-a	Temperature Perfo 0.00 °C 100 %			alFwd 5585 m ⁸	TotalRev 0 m ⁸				Connected to: 1	Device2 ' Access leve 💥 🕕 Superuser	IRX⊙ TX⊙



ATTENTION!

Instead of saving separate signals it is recommended to use the Create Service Package feature. Using this feature a complete set of data is collected including a short logfile, signal file and parameter data.