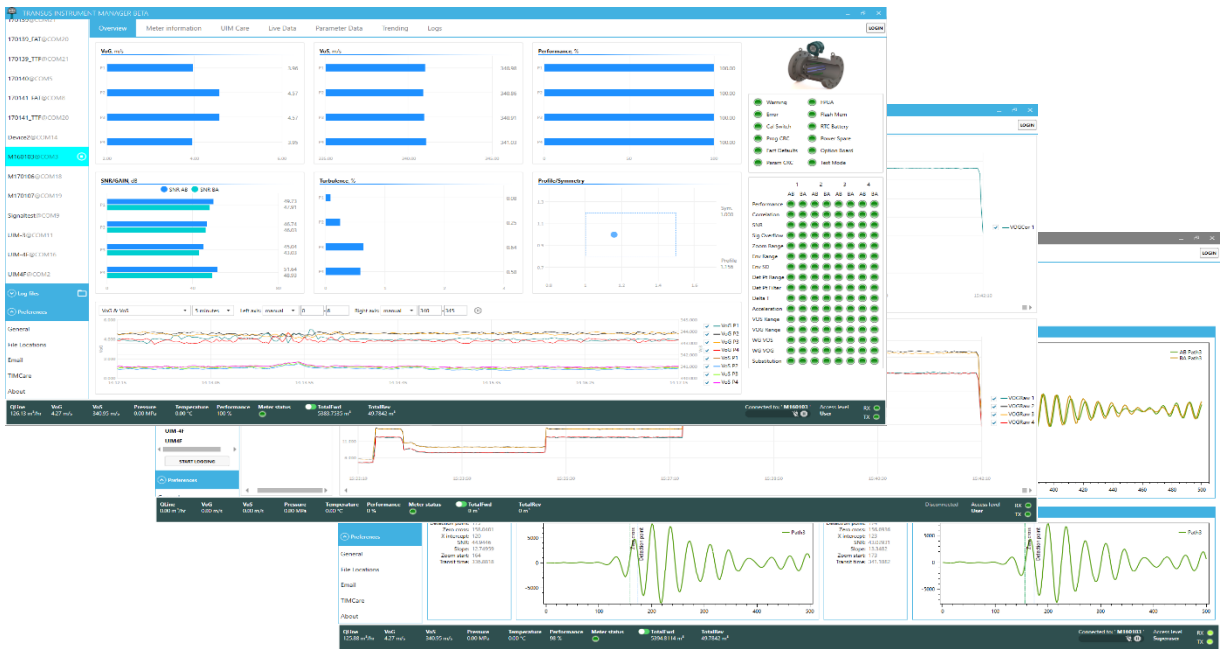




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TIM QUICKSTART MANUAL

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## TIM Quickstart manual



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## Table of contents

<b>1</b>	<b>Contents of this manual.....</b>	<b>4</b>
1.1	Conventions.....	4
1.2	Related documents.....	4
1.3	Abbreviations .....	4
<b>2</b>	<b>Installation.....</b>	<b>6</b>
2.1	Minimum system requirements.....	6
2.2	Installing TIM .....	6
2.3	Running Transus Instrument Manager.....	9
<b>3</b>	<b>General information.....</b>	<b>10</b>
3.1	User interface .....	10
3.2	TIM Preferences .....	10
3.3	User levels .....	11
<b>4</b>	<b>Devices .....</b>	<b>12</b>
4.1	Adding a device .....	12
4.2	Adding a device for demo mode (simulation mode) .....	13
4.3	Connecting to a device .....	14
4.4	Entering demo mode.....	14
4.5	Changing device properties .....	15
4.6	Deleting a device .....	15
4.7	Disconnecting from a device .....	15
4.8	Pausing a connection.....	16
<b>5</b>	<b>Operating TIM.....</b>	<b>17</b>
5.1	Overview screen.....	17
5.2	Device information screen .....	18
5.2.1	Creating a parameter report .....	18
5.2.2	Saving a parameter set to file.....	19
5.2.3	Writing a parameter set to a device.....	19
5.2.4	Updating 1.X.X to 2.X.X parameter file .....	21
	<b>Trending and logging.....</b>	<b>24</b>
5.3	Trending live data.....	24
5.4	Logging data to a file .....	24
5.5	Playback of logged data.....	25
<b>6</b>	<b>Diagnostics.....</b>	<b>26</b>
6.1	Create Service package.....	26
6.2	Reading signals from device .....	27



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## Introduction

This manual provides information for installing and performing the basic functions of Transus Instrument Manager (TIM). TIM is the Microsoft Windows based software to program, run diagnostics and troubleshoot the UIM series ultrasonic gas flowmeter. It contains guidelines for setting up a connection and perform the basic functions in TIM. 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 UIM Series, please refer to the Installation and operating instructions or contact Transus Instruments via email or telephone.

This Quickstart 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. Transus Instruments 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 Transus Instruments, 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.

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DOCUMENT TIM QUICKSTART MANUAL	REVISION 1.1	REVISION DATE 06-AUG-2019	PAGE 3 OF 27
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## 1 Contents of this manual

This manual contains several sections, covering various aspects of TIM.

Chapter 1	This chapter
Chapter 2	Installation
Chapter 3	General information
Chapter 4	Devices
Chapter 5	Operating TIM
Chapter 6	Trending and logs
Chapter 7	Diagnostics
Appendices	

### 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] UIM Series Safety instructions

*Author* Transus Instruments  
*Document Code:* TI2\_UIM\_GEN7\_Safety\_instructions

#### [2] UIM Series installation, operating and maintenance

*Author* Transus Instruments  
*Document Code:* TI2\_UIM\_GEN6\_installation\_operating\_maintenance

### 1.3 Abbreviations

The following abbreviations may be used throughout the document:

DOCUMENT TIM QUICKSTART MANUAL	REVISION 1.1	REVISION DATE 06-AUG-2019	PAGE 4 OF 27
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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
TIM	Transus Instrument Manager
USM	Ultrasonic Flowmeter

## 2 Installation

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

### 2.1 Minimum system requirements

The minimum system requirements necessary to run Transus Instrument 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
- 4GB RAM
- Screen resolution of 1366x768 or better for optimum viewing experience

### 2.2 Installing TIM

In order to be able to install TIM, the user should have administrator rights.

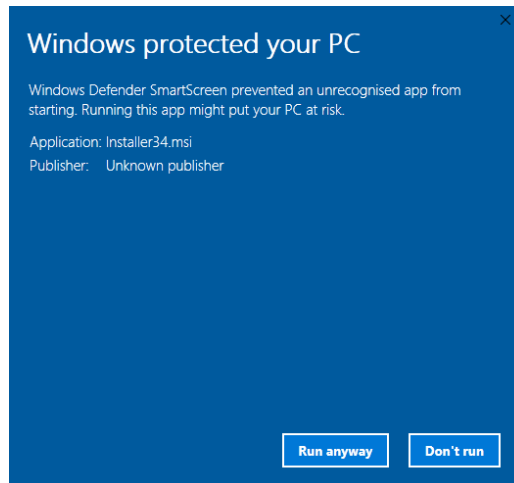
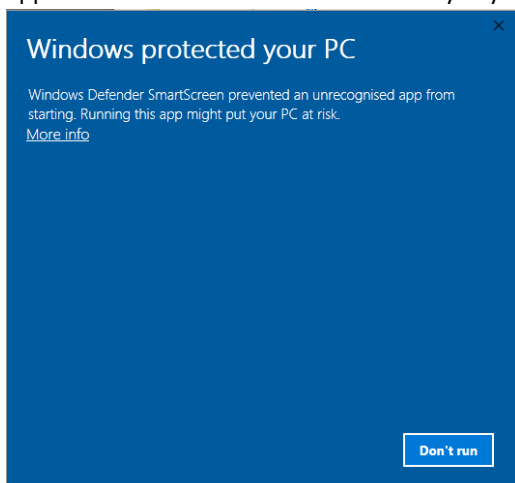


#### *Attention!*

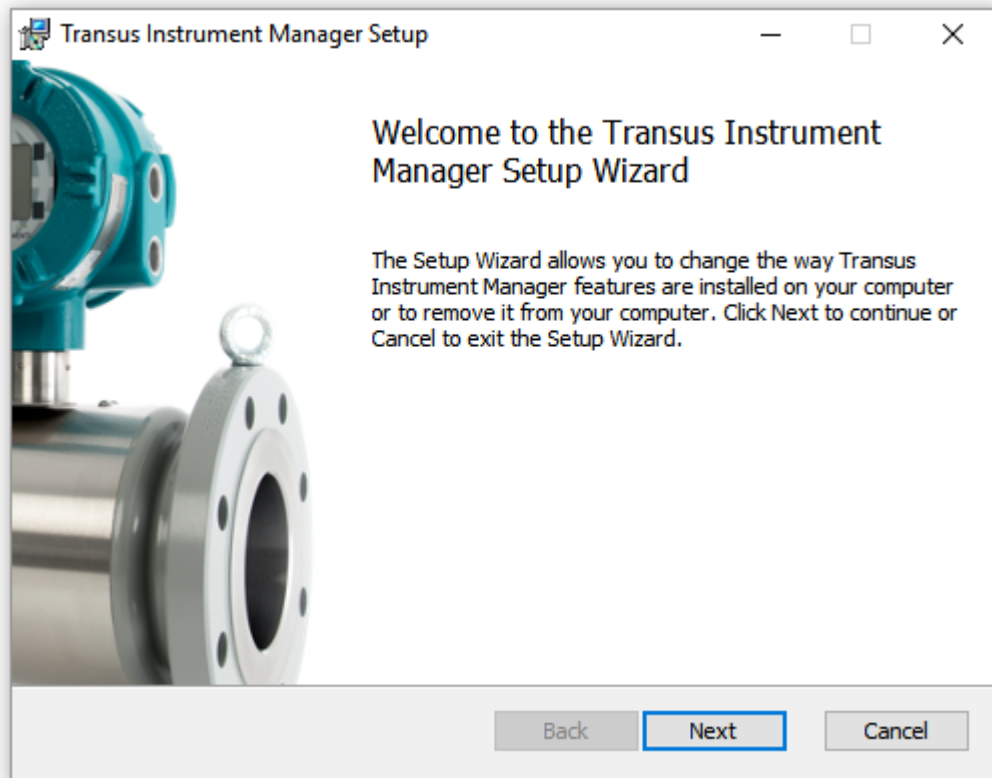
We recommend installing TIM under the account of the user that will use TIM. The user will need to have administrator rights to install TIM.

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

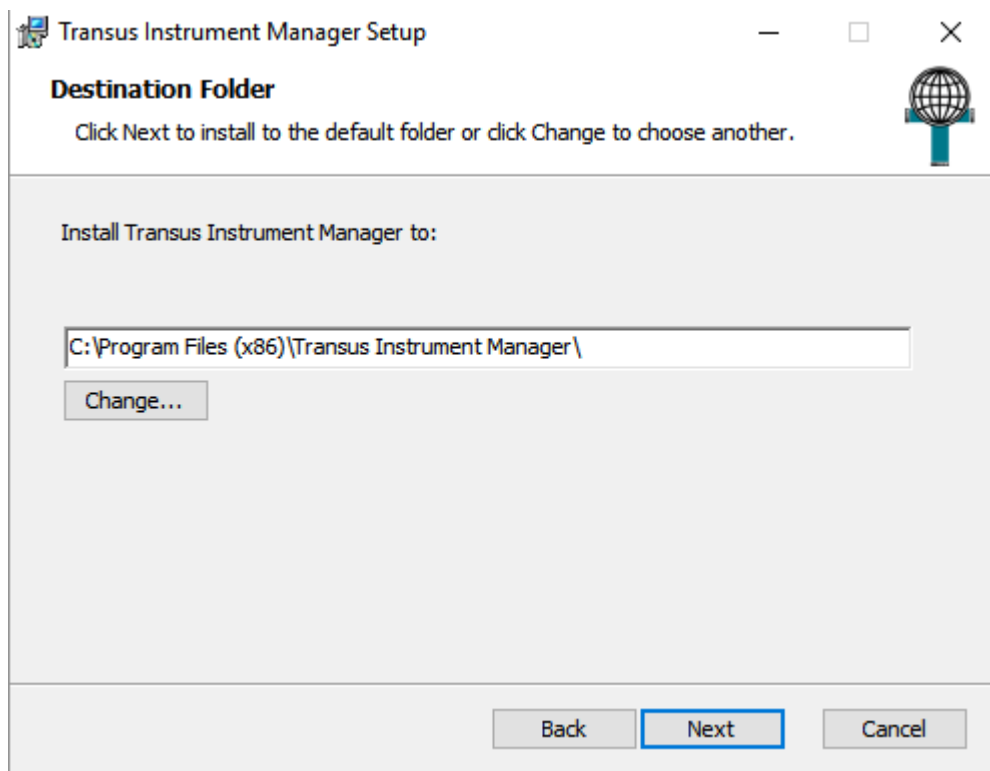
1. Run the TIMinstaller.msi Windows might give you a warning message when it doesn't recognize the app. Click <More Info> and click <Run anyway> to proceed.



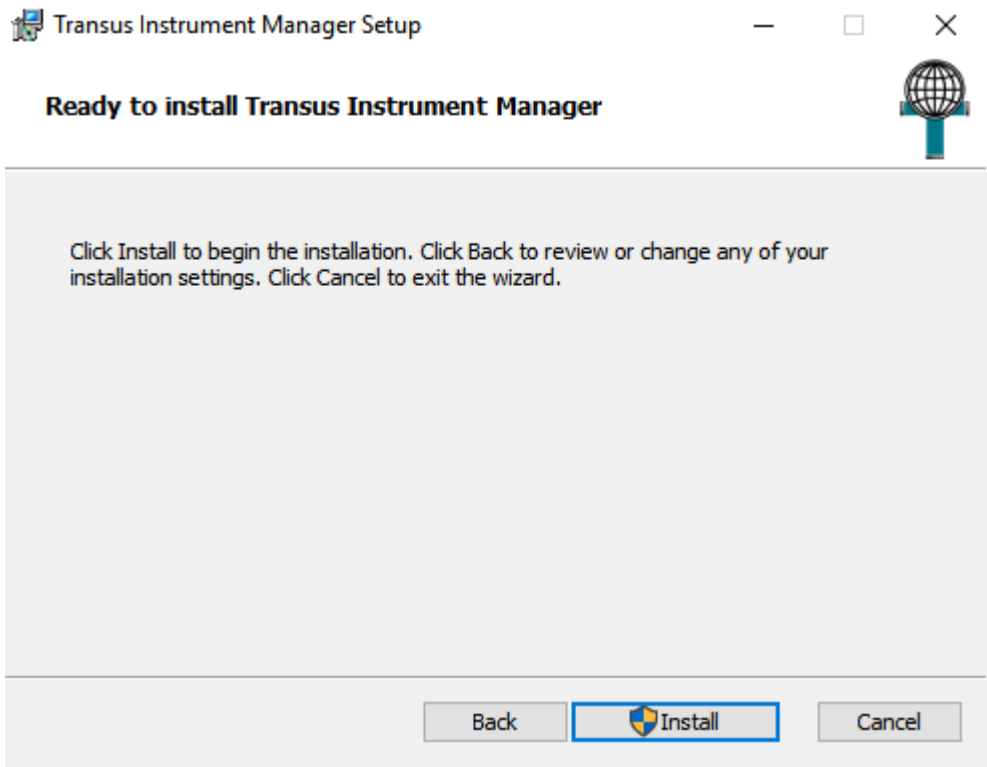
2. Click next in the following screen



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

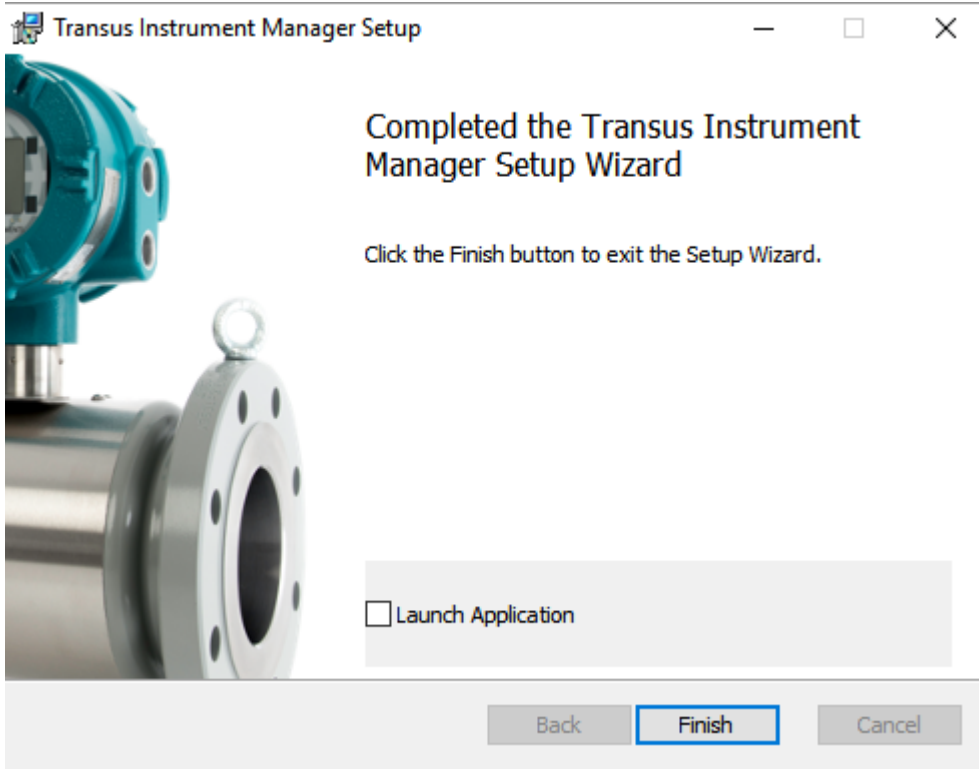


4. Click <Install> to begin the installation



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







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### 2.3 Running Transus Instrument Manager

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

### 3 General information

#### 3.1 User interface

After TIM 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. Left side navigation pane  
 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  
 The status bar shows general information from the device as well as connection information



#### 3.2 TIM Preferences

Preferences and general information about TIM 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
- TIMCare  
 Settings and preferences for TIMCare can be found here
- ABOUT  
 Information about Transus Instrument Manager

### 3.3 User levels

There are three user levels in Transus Instrument Manager.

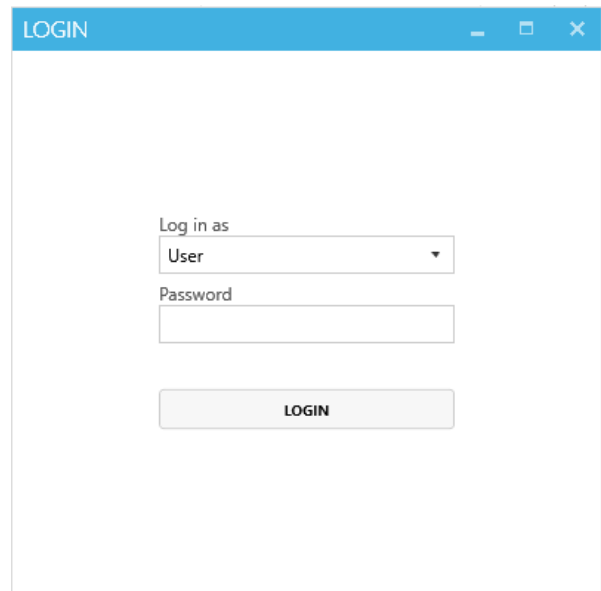
1. User – This is the entry level and requires no password.
2. Service – this is the user level for general commissioning, service and troubleshooting activities
3. Superuser – this level allows to edit all parameters of the UIM Series flowmeter



#### *Attention!*

Regardless of the user level, the parameter access in the UIM Series flowmeter is controlled by the calibration switch on the device. When this is closed, only parameters that do not affect the metrological performance can be changed.

Transus Instrument 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.

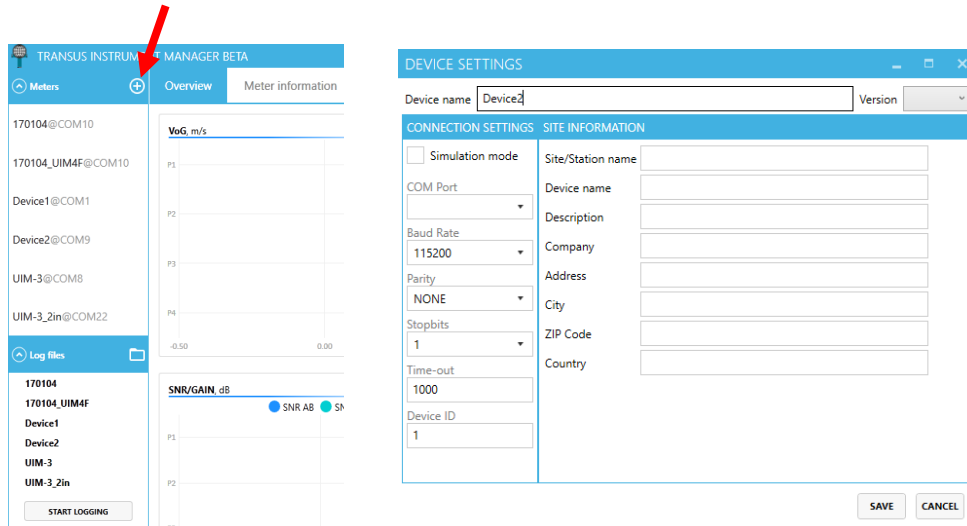


Depending on the user level several menu items or tabs are available.

## 4 Devices

### 4.1 Adding a device

To add a device press the + button to bring up the device settings dialog



Enter a device name for the device you are connecting to. Configure the COM port settings. Factory default settings for the UIM Series flowmeters 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.



### 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



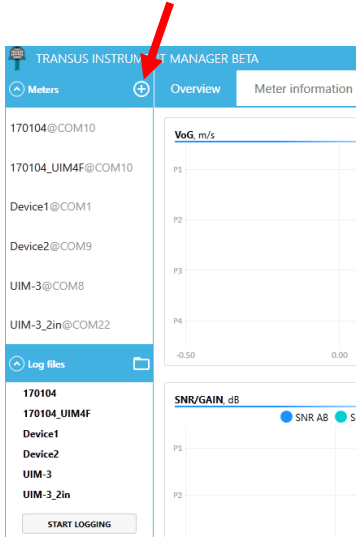
### Attention!

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

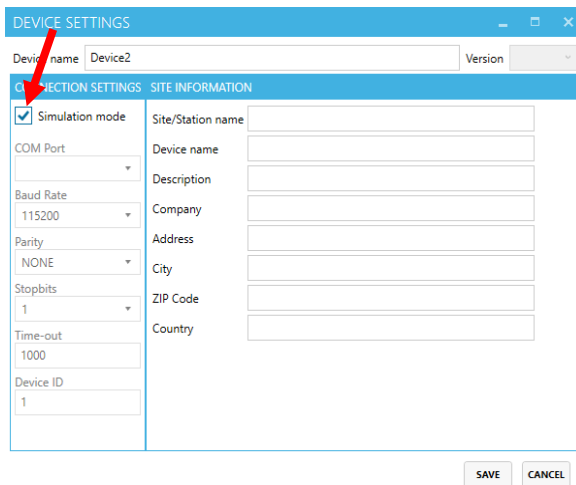


## 4.2 Adding a device for demo mode (simulation mode)

To add a device press the + button to bring up the device settings dialog



Press the simulation mode and save the device

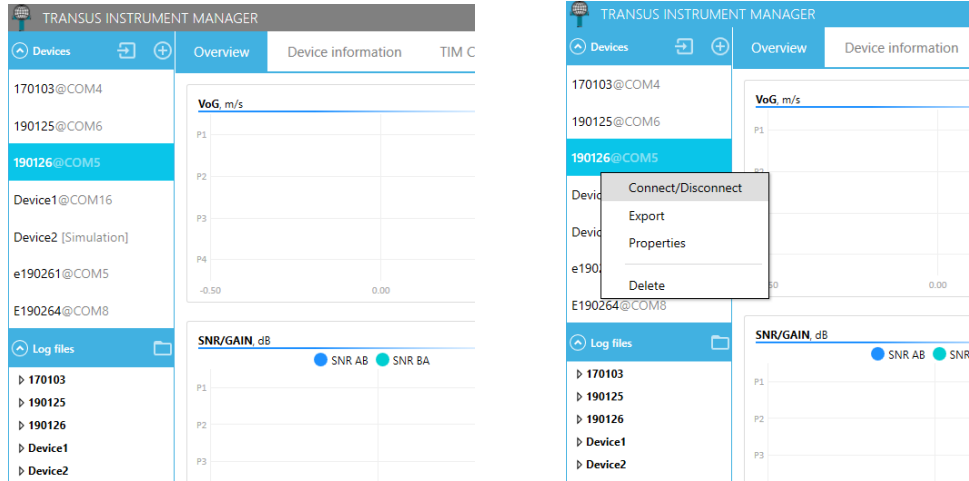


This device can now be used as if connected to a normal device, when connected to the simulation mode device it will play a default log file and simulate a UIM Series flowmeter measuring flow.



### 4.3 Connecting to a device

In order to connect to a device, double click on the device or press the right mouse button and choose connect/disconnect. TIM will attempt to connect, read the parameters and then start to read real time data.



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

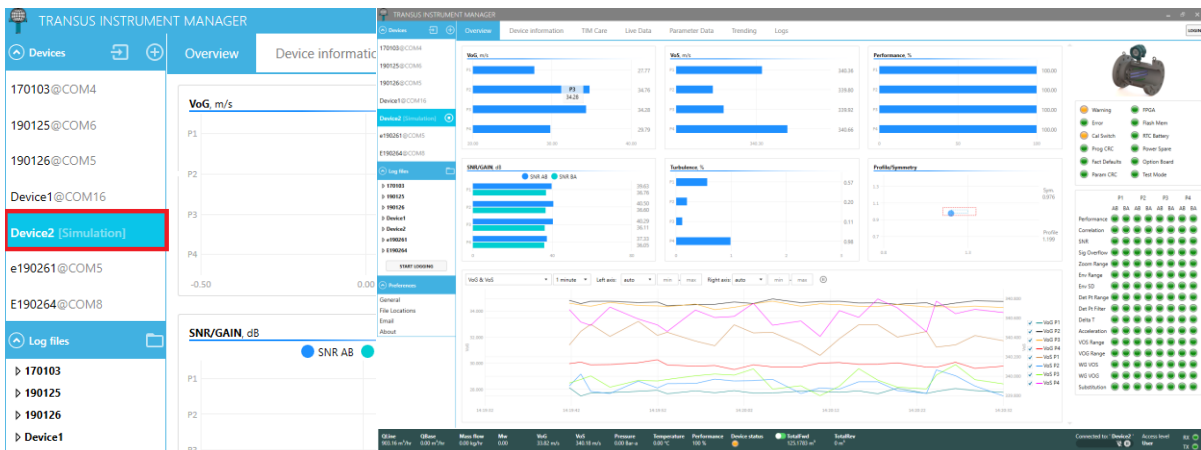


### Attention!

In order to work with a device in offline mode, TIM 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 TIM “Connects” to the simulation device it will start to play the data.



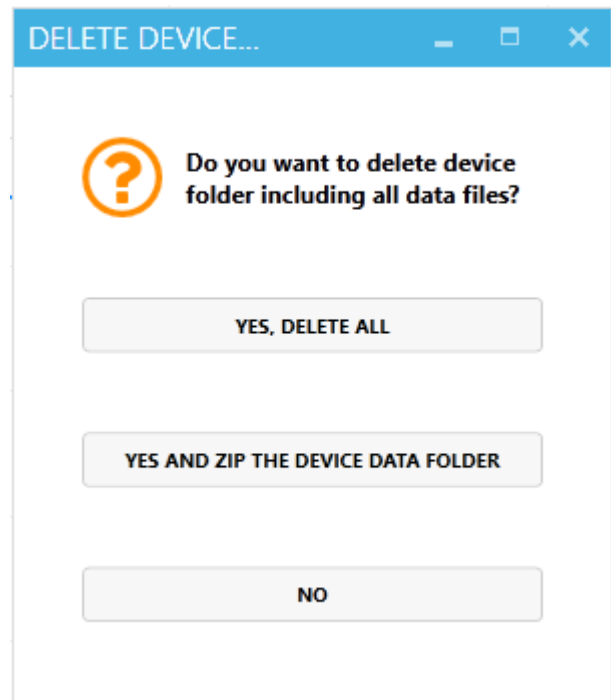
#### 4.5 Changing device properties

In case certain properties or connection settings of a device need to be changed, Right-click on the device you want to change and select <PROPERTIES>

#### 4.6 Deleting a device

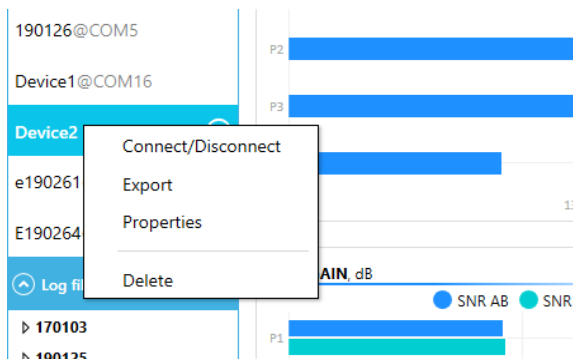
In the event you want to remove a device from the list, Right-click on the device you want to delete and select <DELETE>. A pop up dialog appears. Select the desired option for the delete action.

1. <YES, DELETE ALL> - This option deletes the device and all data from the PC
2. <YES AND ZIP DEVICE DATA FOLDER> - This option collects all data from the device and compresses it in a ZIP file. The device and folders will then be deleted.
3. <NO> - This cancels the operation and returns to the previous screen



#### 4.7 Disconnecting from a device

In order to disconnect from a device, click on the connected device, TIM will ask to confirm to disconnect. Alternatively, right click on the device and choose the option: Connect/Disconnect. Any logging in progress will also end.





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#### 4.8 Pausing a connection

A connection to a device can be paused. Press the pause button on the bottom status bar in order to temporarily stop polling data from the device until the pause button is pressed again.







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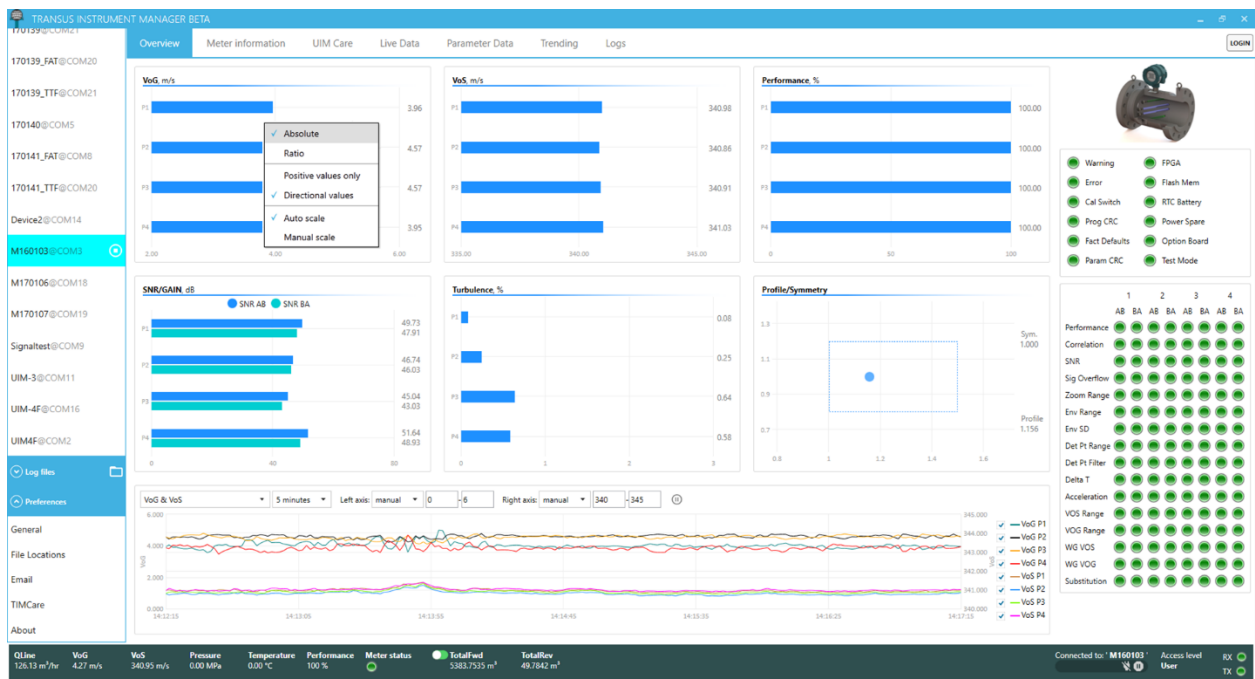
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## 5 Operating TIM

### 5.1 Overview screen

The overview screen is the default screen when starting up Transus Instrument Manager. Several bar charts and a trending window are available to view diagnostic information about the operating conditions of the device and its application. Several options for each bar chart are available, such as scaling and other settings. Click on each bar chart using the right mouse button to open the options pop up menu and to adjust the graph as required.

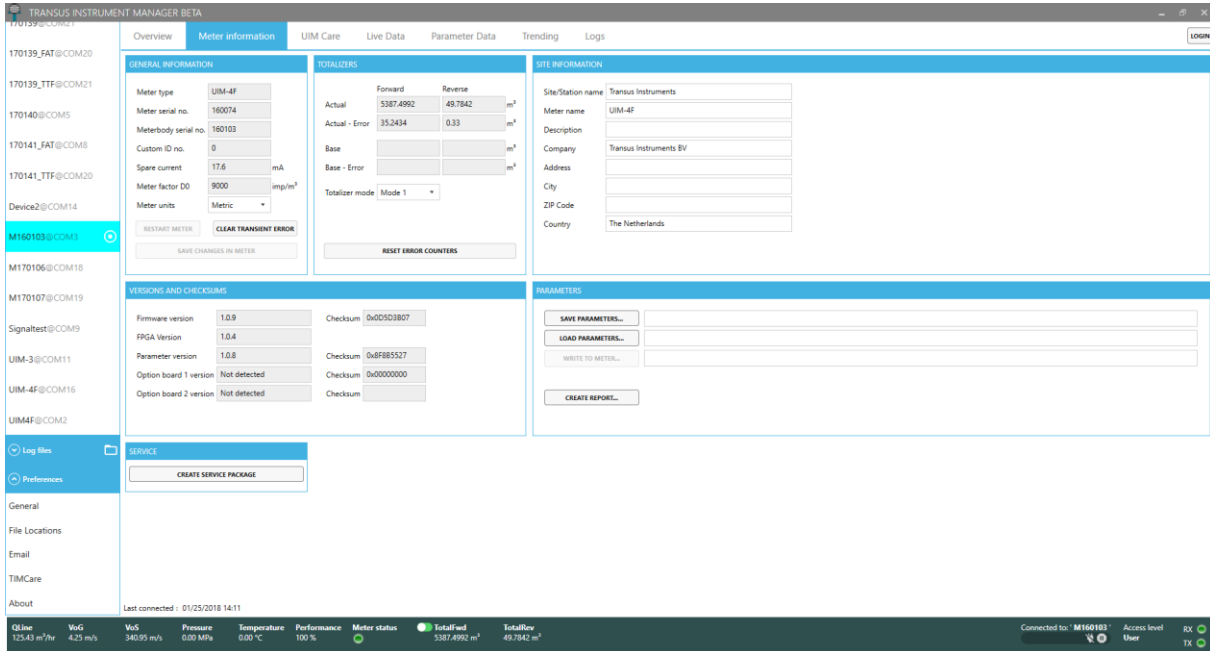
The Trending area has several pre-configured trace sets to easily display combinations of diagnostics over time. Two Y-axes are used, one on the left and one on the right. Both are auto-scale by default. Each Y-axis can be set to a manual range if required.





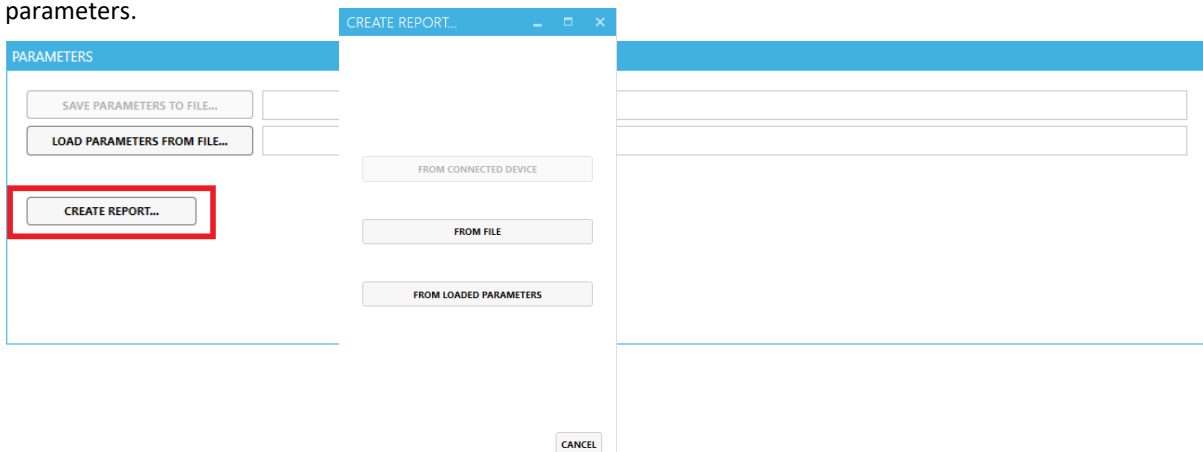
## 5.2 Device information screen

The device information screen provides essential information about the device such as serial numbers, software versions and checksums. It also shows the totalizer values (volume counters).



### 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 METER INFORMATION 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.



Next, a window will open with a preview of the report. Select SAVE AS.. to save the report as an .RTF file. This file can be opened in Microsoft Word. Click <CANCEL> to cancel the operation.



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REPORT PREVIEW

---

**Site Identification**

Site / Station name

Meter Name

Description

Company

Address

City, Zip Code

Country

---

**Meter Identification**

Meter type	UIM-3	System units	Metric
Meter Serial	15008	Flowbody serial	0
Custom ID no.	0	Meterfactor D0	30000
Firmware version	1.0.9	Checksum	0x005D3807
Parameter version	1.0.8	Checksum	0x76B94D08
FPGA version	1.0.4		
Option board 1 version	Not detected	Checksum	0x00000000
Option board 2 version	Not detected	Checksum	

---

**Flowbody Parameters**

Flowcell type  Inside diameter  [m]

	Path 1	Path 2	Path 3	Path 4	
Path length	0.04810	0.0627	0.0495	0.07810	[m]

### 5.2.2 Saving a parameter set to file

The parameters of the device can be written to an XML file by pressing <SAVE PARAMETERS.> on the DEVICE INFORMATION tab. This file can be used later to easily write the same parameters to a device again.

### 5.2.3 Writing a parameter set to a device

In case a device needs to be reprogrammed with a previously saved parameter set (for example after swapping out electronics) the parameters can be written to the device by pressing <LOAD PARAMETERS...>. An “open file” dialog window will open to browse to the desired XML parameter 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 write the parameter set to the device.



#### Attention!

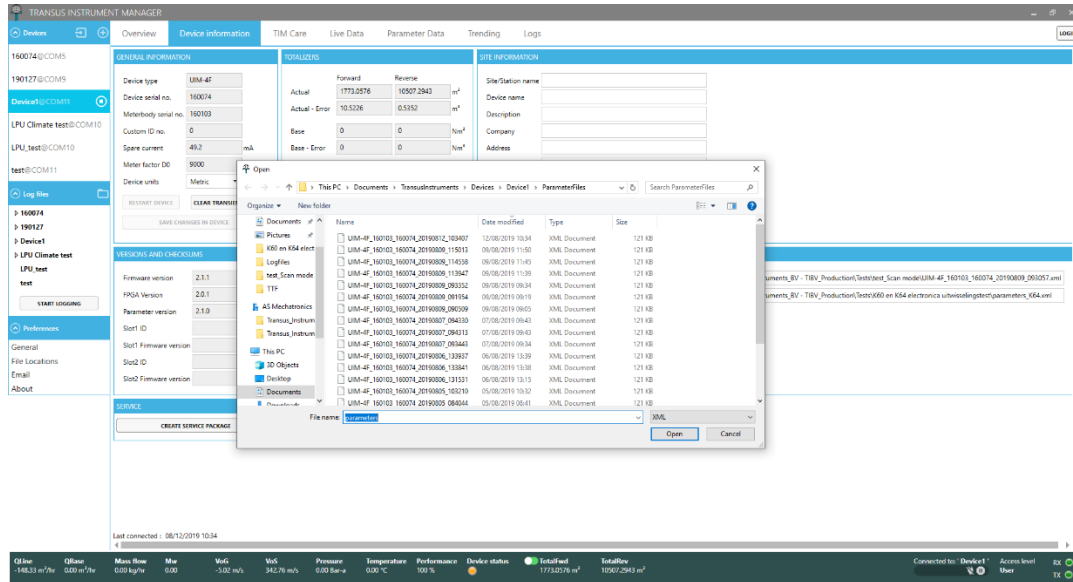
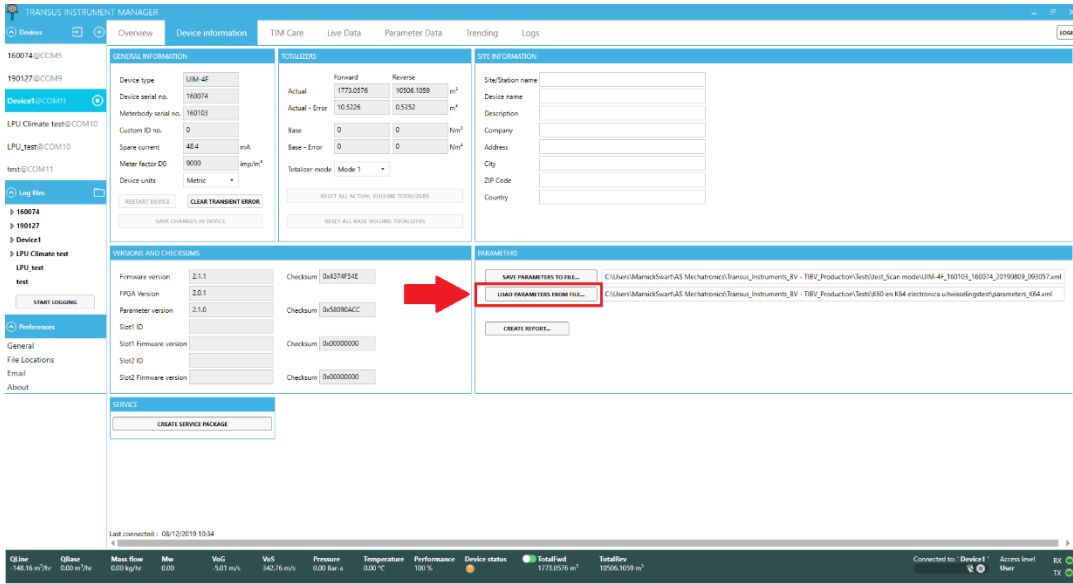
TIM verifies the parameter file version is compatible with the connected device parameter version. When the version is not compatible it will not write the parameters to the device.



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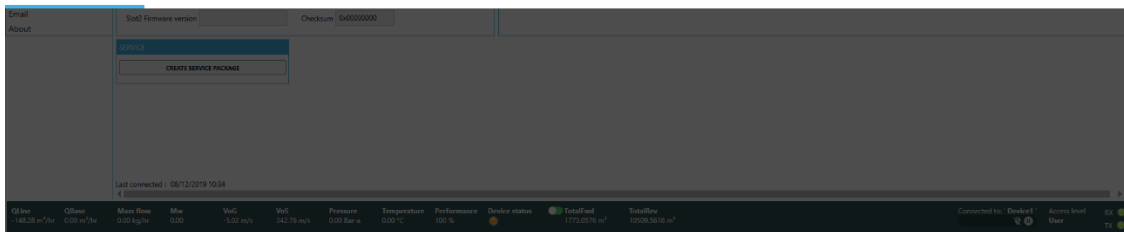
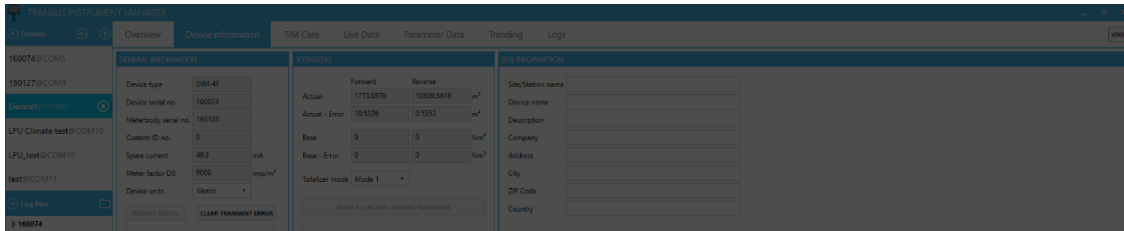
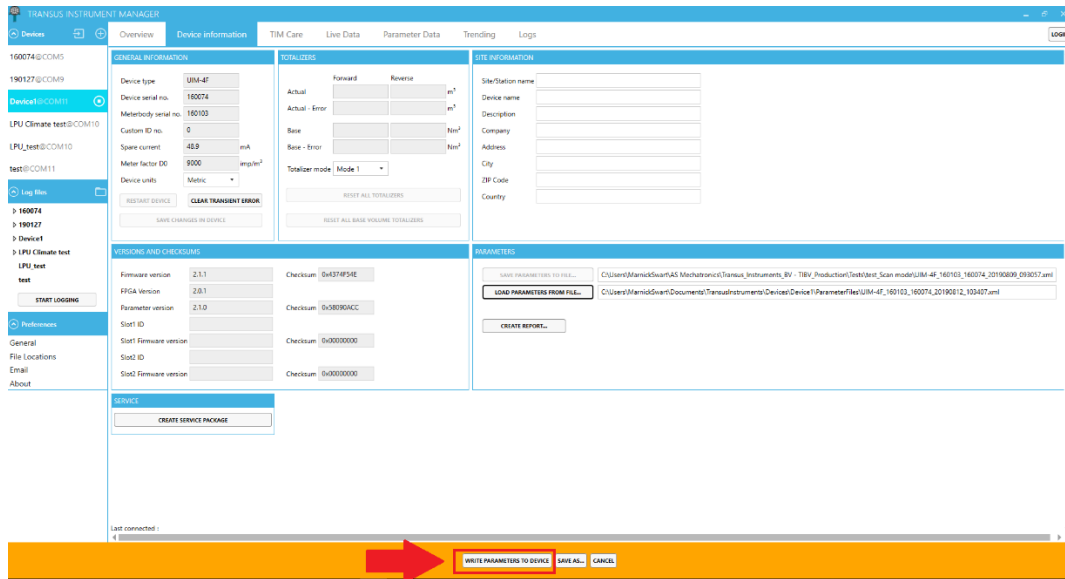




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## 5.2.4 Updating 1.X.X to 2.X.X parameter file

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, TIM prompts to alert the user that some parameters were changed. To use the new parameters, 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.



### 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.

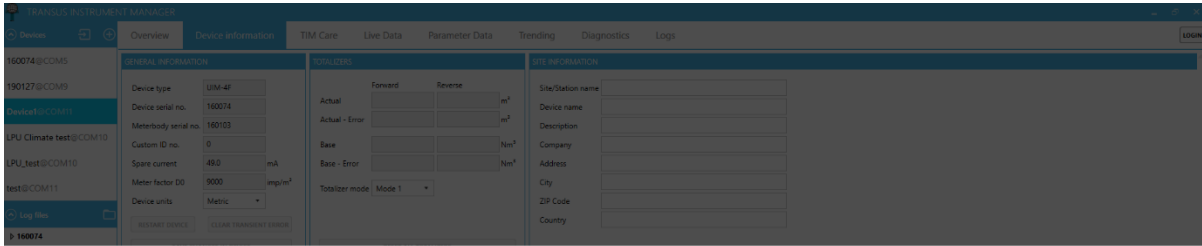
After loading the parameters go to the Parameter tab. Parameters that were not loaded from the file are identified in red and can be manually updated. Refer to the examples shown below in this chapter.



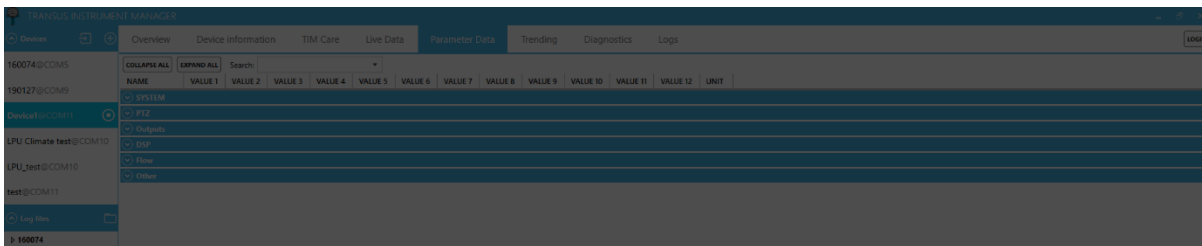
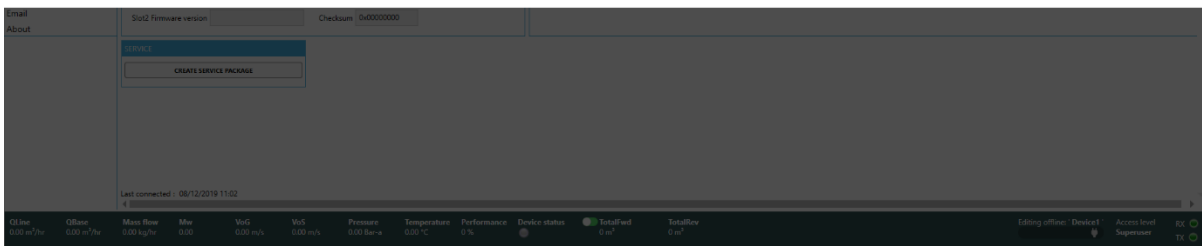
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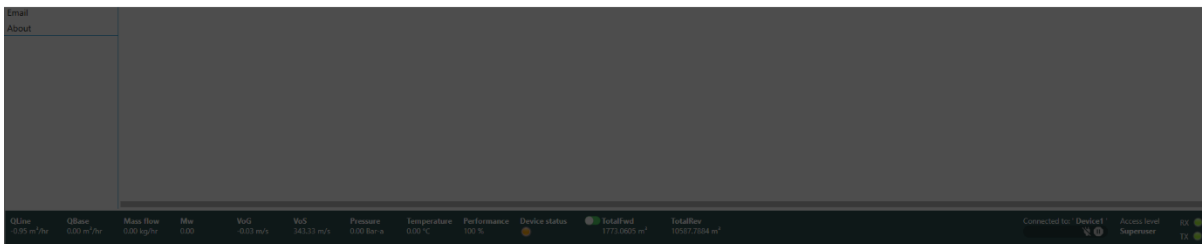
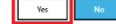


Some parameters has been changed while device was offline



All parameters in device will be overwritten

Are you sure?





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NOT LOADED		Method	0x0000
<b>PTInput</b>			
T_sensor	0	SIG_FWD	0.6
Kr	0	SIG_REV	0.6
Voor	0	GHV_FWD	40
Tot	0	GHV_REV	40
P_sensor	0	CO2_FWD	0
mV	26	CO2_REV	0
Pb	10.34214	N2_FWD	0
Vosp	0	N2_REV	0
Kpv	0	C1_FWD	0
Kpp	1	C1_REV	0
Pst	0	H2_FWD	0
Puot	0	H2_REV	0
Pkt	1	<b>AnalogOut</b>	
Tude	0	Mode	0x0000 0x0000 0x0000
Tuk	1	ErrorMode	0x0003 0x0003 0x0003
Tema	-20	TestValue	12 12 12
Tmax	60	Zero_Source	0 0 0
Pmin	0	Span_Source	1000 1000 1000
Pmax	20	Min_out	4 4 4
<b>Conversions</b>			
PTZMode	0x0000	Max_out	20 20 20
PTZErrorMode	0x0000	ErrorValue	22 22 22
Tb	15	Source	97 97 97
Pb	1.01325	SourceIndex	0 0 0
Zb	1	FCal_4mA	2470 2470 2470
T_input	9999	FCal_20mA	52800 52800 52800
P_input	9999	Offset_4mA	0 0 0
T_erroval	15	Offset_20mA	0 0 0
P_erroval	1.01325	<b>GeneralOptions</b>	
		UnitSelector	12341 36844 0 36852 36868 36872 36880 36884 36896 22355 26465 24912



## Trending and logging

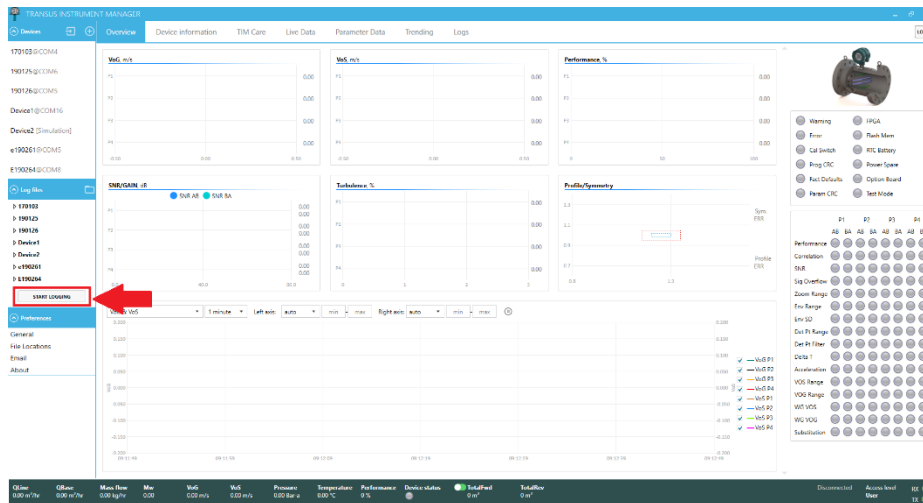
### 5.3 Trending live data

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. 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.



### 5.4 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. 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, logs can be paused and started at any time with the pause button located on the bottom-right of the status bar.



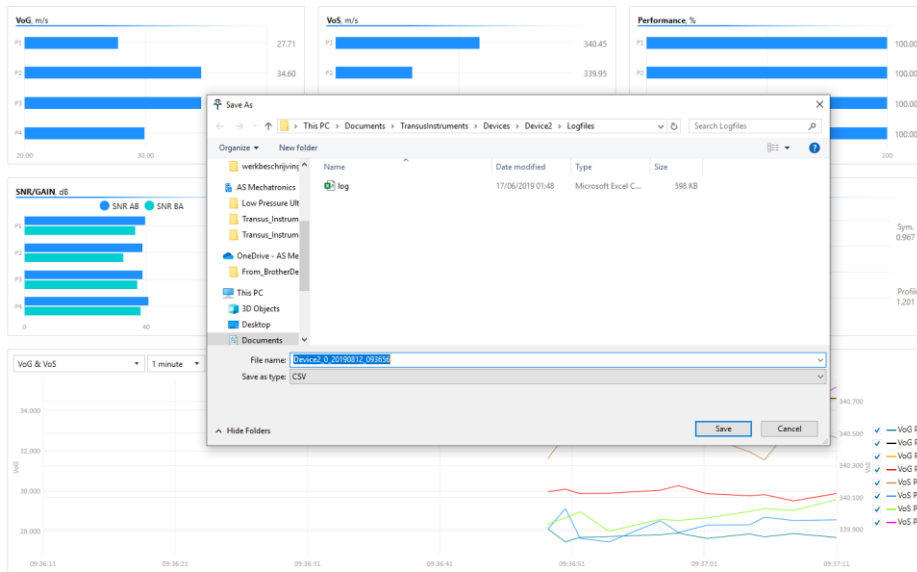




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### 5.5 Playback of logged data

TIM can open and play back previously created log files. Log files can be selected from the left hand navigation pane in the Logs tree, or when the log file is not present in the tree list, opened using the “Open log file” button as shown to the right.

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

**Log files**

170104 Open log file

170104\_UIM4F

Device1

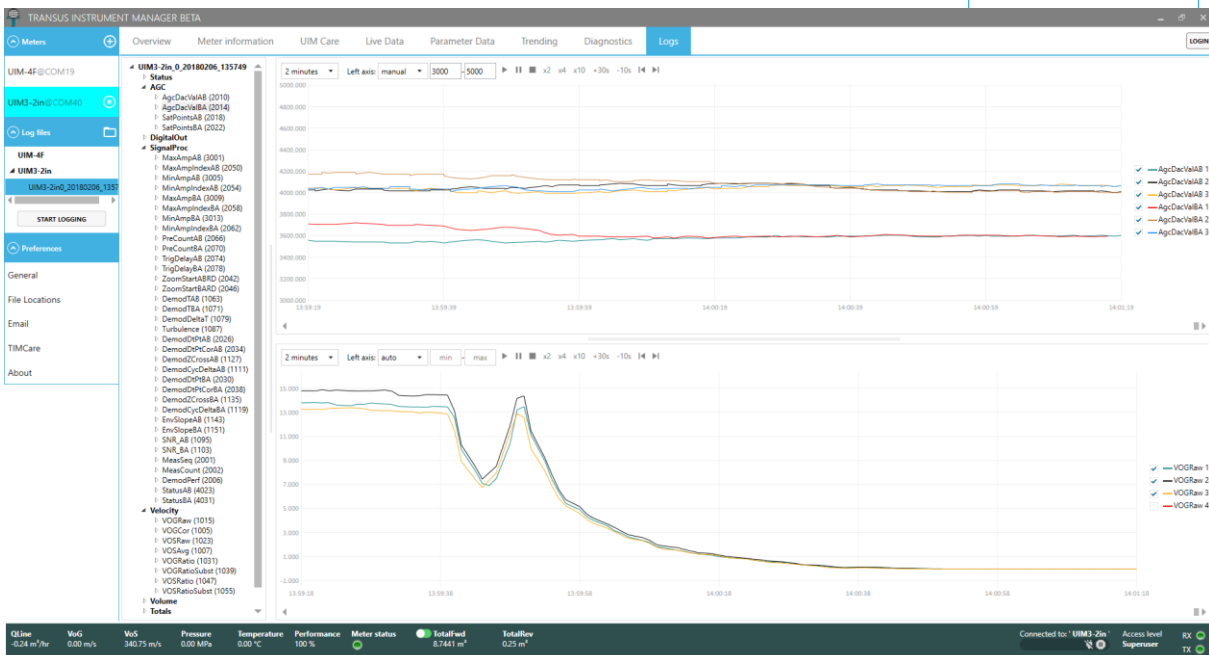
Device2

Device3

UIM-3

UIM-3\_2in

**START LOGGING**





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## 6 Diagnostics

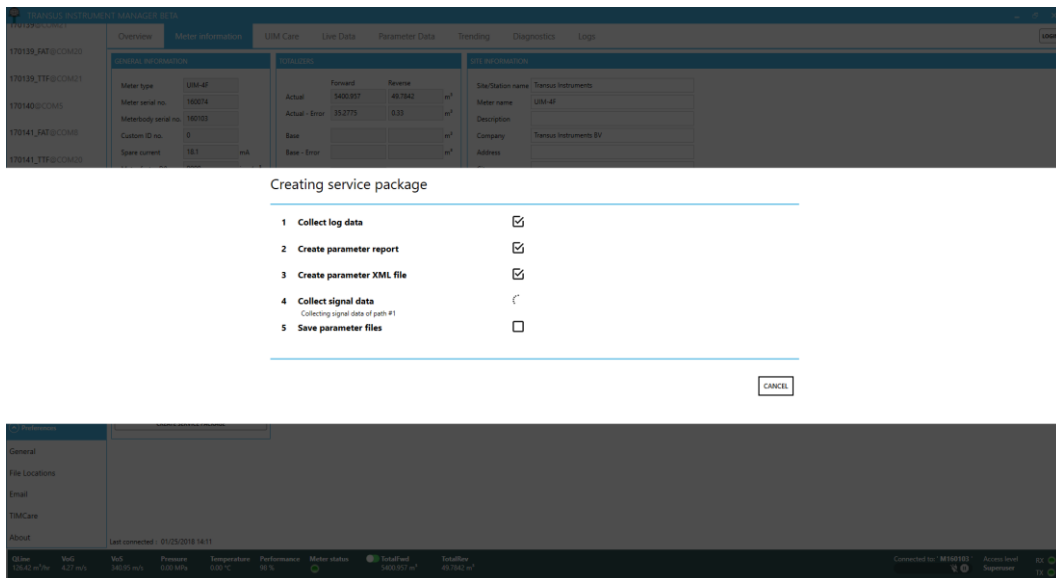
When logged in under Service or Super user level the diagnostics tab is available. This tab allows to view the received signals of the transducers. Signals can be viewed directly from the connected device. Previously saved signal sets can also be loaded in TIM for further analysis when offline from the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



### 6.1 Create Service package

For trouble shooting 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. The zip file can be sent to an expert at Transus Instruments or your sales representative for further analysis. The package contains a short log file, parameter data and signal data.

Press the <CREATE SERVICE PACKAGE> to start collecting the data. The following screen appears, wait until TIM has completed all 5 steps. Note that this process takes several minutes to complete.





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## 6.2 Reading signals from device

To read signals select the Path to read in the <CHANNEL SELECTION> area. Enter the number of signals to read (TIM can store several signals in one file, this may be useful for observing dynamic behaviour of the signal). Default number of signals is one. Press <READ> to read the signals, this 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.

To continuously request signal information from the device, click <CONTINOUS> to enable TIM to get continuously get signal data from the meter. Press <STOP> to stop requesting data. Note that requesting continuous signal data may slow the response of the device down.



### *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.