

QUICK START

DevComFF.Win uses Device Descriptions (DDs) to access data stored in the memory of the smart field device. These DDs are developed by the manufacturer for their products and, in turn, distributed by the FieldComm Group (FCG) worldwide. The latest DDs are included as part of the DevComFF installation. Visit the FCG website (www.fieldcommgroup.org) or the ProComSol website (www.procomsol.com) for update information.

The following steps will allow you to install and quickly begin using DevComFF.Win:

Step 1: Install the DevComFF.Win application

Insert the DevComFF.Win installation USB drive into a USB port on your computer. Launch the Windows File Manager application. Double click on the DevComFF_Setup.exe file. This will begin the installation program.

Step 2: Activate DevComFF.Win

Launch DevComFF.Win by selecting the DevComFF icon on your desktop. You can also start the application by going to your computer's Start Menu and selecting Start \rightarrow Programs \rightarrow ProComSol \rightarrow DevComFF \rightarrow DevComFF to launch the program.

You will now be asked to Activate DevComFF. If you have Activation Codes (located in the USB drive shipment or distribution email), select the Activation method of your choice (Manual or Online). Select the Evaluate option if you do not have Activation Codes. You can use DevComFF.Win for 10 days before you need to activate it.

If you are Activating DevComFF.Win by the online method, select online activation. You will be asked to enter the Activation Codes on the next screen. Once entered, DevComFF.Win will connect to the Internet to verify the Activation Codes. If you do not have an internet connection, you can activate it by email or phone using the Manual Activation method. Activation details are fully explained later in this manual.

Activation only needs to occur once.

Step 3: Connect the mobiLink communication interface

Connecting to a Foundation Fieldbus device requires special interface hardware to be attached to your computer. DevComFF only works with the MOBI-FF and MOBI-CMPLT modems available from ProComSol, Ltd and other sources. The modem should be connected and configured.

Step 4: Connect to the Foundation Fieldbus (FF) network

Connect the mobiLink to the FF network at the power hub or other dedicated FF access point for communicators.

Step 5: Live List

Click the New Device icon to start populating the Live List. The Live List shows all the FF devices connected to the segment powered by the Power Hub. Click on the device you wish to configure or view.

Step 6: Browse the Device

Operating DevComFF.Win is similar to working with Windows® Explorer. DevComFF.Win communicates to the field device, establishes a connection and learns its identity. Once DevComFF.Win knows its identity, DevComFF.Win locates the device's DD and loads it. From this point forward operation of DevComFF.Win is determined by the DD provided by the product's manufacturer. If a DD for the device is not present, an error message is given showing the details of the file it is looking for.



The device Blocks can be accessed by clicking the Blocks sub-menu on the top menu bar. Once a Block is selected, DevComFF will open the Browser window. The organization of the data in this explorer-style window is dictated by the device DD. The left hand tree-pane of this window shows the logical groups of field device data. These are called "Menus". The right hand data-pane shows the data, any sub-groups and any Methods found on a given menu.

You can browse through the field device data by expanding (click "+" symbol) or collapsing (click the "-" symbol) the menus in the tree-pane. You can also double-click the folder symbol when seen on the data-pane.

Step 7: Modify the Device's Configuration

The Browser window allows access to all of the data exactly as described by the product's manufacturer's DD. When you find elements of the field device's configuration you want to change, simply double-click and edit the data. Once you have changed the configuration to suit your needs, press the Send icon $\frac{1}{2}$ to commit the data and transfer it to the field device.

Step 8: Performing Maintenance and Testing the Field Device

Many devices perform Methods or Standard Operating Procedures (SOPs) that may need to be performed to ensure the device is in peak condition. These Methods may include trimming the transducer values or performing some diagnostic test on the field device. Methods appear in the data-pane just like data does. Double-click on the Method and it will start running in a separate window. The Method will guide you through the process ensuring the procedure is completely and consistently performed. When the Method is complete the window will disappear.

Step 9: Exit

When you are through working on the field device simply exit DevComFF.Win. Once the program exits, you can then disconnect the mobiLink from the segment.



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1 INTRODUCTION

The Smart Device Communicator (DevComFF.Win) allows access to and management of a Foundation Fieldbus (FF) compatible field device's configuration and calibration. This manual provides the information about the Hardware setup, Communication with Smart devices, and functions of DevComFF.Win.

DevComFF.Win is unique in that it uses the DD of the connected device to determine what information to display, what variables are available for edit, and what procedures to follow for calibration, setup, and maintenance.

1.1 Acronyms and Definitions

Acronym	Definition
FF	Foundation Fieldbus
COTS	Commercial-off-the-Shelf
DD	Device Description File. This contains the device information.
DDL	Device Description Language
FCG	FieldComm Group
DevComFF.Win	Smart Device Communicator Software

1.2 Conventions Used in This Manual

Following formatting conventions are used in this guide:

Convention	Description
Words in bold type	Field names including buttons in the display, or important phrases.
\rightarrow Arrow	Windows pull down menus and their options are separated by \rightarrow .
	For example, click Device \rightarrow New Device to connect to a new device.
Courier font	Information that you type, parts of the code quoted for explanations or as examples.
UPPERCASE	Acronyms
UPPERCASE within angle brackets	Command keys For example, press <enter>.</enter>



1.3 Document Organization

DevComFF.Win user manual is organized into the following sections:

Section 1	Describes the scope and objective of DevComFF.Win user manual along with the organization of the remaining part of the manual.
Section 2	Provides an overview of the DevComFF.Win application and its architecture.
Section 3	Provides the information pertaining to hardware and software requirements for the DevComFF.Win application.
Section 4	Provides the steps to install, activate, and uninstall the DevComFF.Win application.
Section 5	Provides the steps to start the DevComFF.Win application and connecting to field devices.
Section 6	This section explains different aspects of the DevComFF.Win application and its functionalities.

1.4 Getting Help

If you need help or encounter problems when using DevComFF.Win or this guide, please contact ProComSol, Ltd. See Appendix B for contact information. Please provide the following information.

Create a text description of the problem. If possible, provide the text in event sequence, which will enable the duplication of the problem. Provide information about the system. This information must include:

- DevComFF.Win version and License ID
- Computer Windows version
- Device information: make, model, and device revision
- Point of contact: complete mailing address, telephone number, and e-mail address,



2 OVERVIEW OF DEVCOMFF.WIN

Field devices such as flow, pressure, level, temperature transmitters, and valve positioners provide the physical connection to the process. These devices allow the control system to monitor and manipulate process conditions. Foundation Fieldbus (FF) devices maintain a real-time database of process, configuration, identification, and diagnostic information. This information can be accessed using the FF Communications Protocol.

FF devices are capable of providing functions and features far beyond the basic task of providing a process input or accepting a control output to manipulate process conditions. FF device manufactures create a DD (Device Description) describing all of these functions and features specific to that device. The DD also provides information essential to the successful configuration and calibration of the device.

DevComFF.Win uses these DD's to access the data stored in a device, providing full configuration and setup support for all registered FF DD's.

DevComFF.Win accesses and presents field device data based solely on its DD. DevComFF.Win is intended to monitor and configure a single device at a time and:

- Provides user interface to configure the FF field device,
- Provides a means to configure and view all the parameters related to FF field device, and
- Provides an option to view the detailed status and diagnostic capability of the FF device.

DevComFF.Win allows viewing and modifying of field device parameters based on the DD. Using the device's DD, DevComFF.Win performs various tests to verify the proper operation of the FF device. DevComFF.Win runs as a standalone software package and must have a mobiLink attached to the system to interrogate the FF devices

System Requirements

The following minimum system requirements are recommended for operation of DevComFF.Win.

PC	Processor Speed: Pentium, 600 MHz Memory: 256 MB Hard Disk Space: 500 MB Monitor: 256-color VGA
FF Modem	mobiLink modem. ProComSol provides MOBI-FF and MOBI-CMPLT which will work with DevComFF.Win. MOBI-PWR- FF and MOBI-PWR-CMPLT will also work.
Communication Port	USB or Bluetooth
Operating System	Windows 7 Note that Windows 10 is preferred.



3 DEVCOMFF.WIN INSTALLATION

3.1 Prerequisites

You need to be familiar with the basic functions of the following when installing the DevComFF.Win tool:

- Microsoft Windows
- FF communication interface
- FF field device

3.2 Installing the DevComFF.Win Application

To install the DevComFF.Win application in a standalone system, perform the following steps:

Step	Action
1	Insert the DevComFF.Win USB drive into a USB port on your PC.
2	Click Start and choose Run . From the Run window, click Browse .
3	In the Look In box, browse to the USB drive.
4	Double-click the drive to access the USB content.
5	Look for the DevComFFSetup.exe file and double-click the same. This process will take you through a sequence of installation wizard steps.
6	Follow the instructions on the upcoming screens to complete the Installation.

3.3 Activating DevComFF.Win

DevComFF.Win must be activated before use. If the program is not activated, it will not run after 10 days. The following procedure will activate the software.



Step Action

1



If you want to evaluate DevComFF.Win before purchasing, select the "Evaluate DevComFF.Win" option. You will have 10 days of unlimited program use before you will need to purchase a license. Select "Purchase DevComFF.Win Online" to go to the ProComSol, Ltd website to purchase a license.

- 2 If "Activate DevComFF.Win" is selected, the following window appears:
- 3 If the "Activate DevComFF.Win Online" option is selected, the following window appears.



> License ID and Password	×
	DevComFF
	Please enter your License ID and Password found on the CD Label or received through your email.
	Please enter your License ID:
	Where is my License ID?
	Please enter your Password:
Click here for support	
	두 Back 💥 Exit Continue 🖙

Enter the information from the Activation post card or email. Select "Continue" to process the information.

If the codes were successfully entered, the program will continue as normal. You will not need to perform the activation process again.

4 If the "Activate Manually" option is selected ou will then need to contact ProComSol, Ltd to obtain the Activation Codes. You must supply the User Codes to ProComSol, Ltd support personnel. You can register manually in any of the following ways:

1. Call ProComSol, Ltd at 216.221.1550. Have the program License ID and User Codes ready.

2. Or, send an email to support@procomsol.com containing your company name, License ID, and User Codes.

The above information will be processed at ProComSol, Ltd and an appropriate response will contain the required Activation Code information that the user will need to enter.

If successful, the program continues as normal. You will not need to perform the activation process again.

5 We have tried to make the Activation process as easy as possible. Contact ProComSol, Ltd if you have any difficulties.



3.4 Connecting to the FF Network

The DevComFF.Win application communicates with FF Field Devices through a FF compatible communication interface, the mobiLink. Using this communication interface you will transmit real-time FF data between DevComFF.Win and the selected FF field device.

Insert the USB connector on the mobiLink into your computer's USB port. Using the clips on the wires from the mobiLink, connect to the FF Power Hub or other dedicated FF communicator connection point.

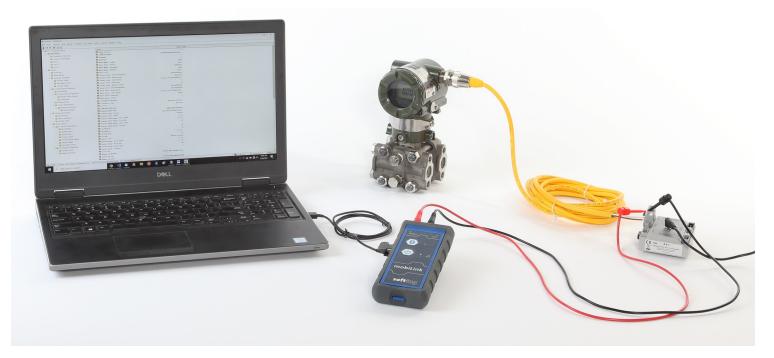


Figure 1 Typical DevComFF.Win Hardware Setup

3.5 Uninstalling the DevComFF.Win Application

To uninstall the DevComFF.Win application, perform the following steps:

4 Click Uninstall.	Step	Action
 3 Click the DevComFF.Win program that you want to uninstall. 4 Click Uninstall. 	1	0
4 Click Uninstall.	2	Or, Click Start → Settings → Apps
	3	Click the DevComFF.Win program that you want to uninstall.
5 Click OK to confirm the removal of the selected application	4	Click Uninstall.
5 Check OK to commit the removal of the selected application.	5	Click OK to confirm the removal of the selected application.



4 USING DEVCOMFF.WIN

4.1 Starting DevComFF.Win

Connect the mobiLink to the USB port on your PC and connect the FF leads to the FF power hub or dedicated FF communicator connection point. With the physical connection established, launch DevComFF.Win by clicking the DevComFF icon on your desktop. You can also start the application by going to your computer's Start Menu and selecting Start \rightarrow ProComSol \rightarrow DevComFF.

4.1.1 Live List

When first launching DevComFF.Win, the software determines what devices are connected to the FF Segment. It polls address 0-247 and shows the results on the Live List. Below is an example:

Live List				×
	N	Address	Tag	
	00	34	R-0301-TEMP2	
	01	26	FT106-1	
		Live Li	st Updated	
			mobiLink Settings	

You may need to make changes to the mobiLink settings in order to connect to your FF network. Click mobiLink Settings to bring up the mobiLink Settings Dialog Box.



biLink Settings		>
Slot Time:	8	1 to 4095
Max Response Delay:	10	1 to 11
Min InterPDU Delay:	16	0 to 255
First Unpolled Addr:	128	20 to 247
Last Unpolled Addr:	247	21 to 247
Polling Range: 17 to 127,	248 to 255	
Sa	ve Cancel	Restore Defaults

4.1.2 FF Device Connect

Once the Live List is displayed, simply click on the device you want to configure. You will then be prompted to change the Tag or Address or to connect to the device. Below is an example:

	X
	×
26 (Range 20 to 247)	
FT106-1	
(Max 32 characters)	
5945430008J0016034	
Save Connect Cancel	
	(Range 20 to 247) FT106-1 (Max 32 characters) 5945430008J0016034



Click the Connect button to connect to the FF device. The Browser window will now open with the Block List highlighted. Here is an example:

V Browser		- 🗆 ×
<u>Pevice Options View Blocks</u> Irending <u>D</u> DLibrary Cloud License <u>Wi</u> ndow <u>H</u> elp		
🛐 😵 🛞 🔯 🗾 EJA Transducer Block		
Analog Input		
PID Control		
Resource Block 2		
	O FF Activity O Trend	Activity
	O TACINITY O Trend	I Activity //

Select the desired block to view. You then navigate through the menus as needed. Below is an example:



🌾 Browser - [EJA Transducer Block]			– 🗆 ×
Device Options View Blocks Trending DD Library Cloud Lice	ense Window Help		_ 8 ×
EJA Transducer Block	Item	Value Units	
Parameters	Parameters	Tobe office	
Transducer Directory	Menus		
Collection Directory	Sensor Calibration Wizard	14	
Test 13			
Test 14			
Test 17			
- Menus			
Block Info			
Block Mode			
Direct Node Dynamic Variables			
Primary Value			
Secondary Value			
Tertiary Value			
Configuration/Calibration			
Block Mode			
Primary Value Parameters			
Primary Value Parameters			
Calibration			
Display Setup			
Display Setup			
Sensor Information			
Sensor Information			
- Diagnostics/Alerts			
Alarm Summary Update Event			
Guery Device			
B TB Profile Parameters			
Block Mode			
Update Event			
Block Alarm			
- Block Alarm			
Primary Value Range			
Secondary Value			
Build TB Original Parameters			
IB Original Parameters Tertiary Value			
Alarm Summary			
Alarm Summary			
Tag: FT106 - Device: EJA (Software Download) /LC1 - Device ID: 5945430008J001	16034 - DD: \594543\0008\0105.ffo	O FF A	ctivity 🔘 Trend Activity

4.2 Getting Familiarized with DevComFF.Win Explorer

4.2.1 Using the Menus

DevComFF.Win Explorer provides visual representation and structure of the application window.

Menu

Explanation

Live List Ctrl+L Document Device	The Device Menu offers the following sub-menu options:
Download / View CalCheck Exit	Live List - Brings up the Live List dialog box that shows the devices that are connected to the segment that the mobiLink is connected to.
	Document Device – Brings up the Document Device dialog box used to save the device configuration to disk.
	Download / View – Brings up the Download dialog box which provides Configuration File features.
	CalCheck - Brings up the CalCheck dialog box for performing a check of the device performance.
	Exit - Exit DevComFF.Win.



Basic	The Options Menu brings up the Options menu for setting DevComFF.Win behaviors.
 Toolbar Status Bar Device Status Event Log 	The View Menu offers the following sub- menu options: Toolbar - Hide or show the Tool Bar. Status Bar - Hide or show the Status Bar. Device Status – View device status for each Block. Event Log – View log of events
EJA Transducer Block Analog Input PID Control Resource Block 2	The Blocks Menu is determined by the device connected to. The image shown is an example. Click on the desired Block to configure or view.
Define Trend View Current Trend View Past Trends Stop Current Trend	The Trending menu offers the following sub-menu options: Define Trend – Brings up the Define Trend dialog box where a trend is started. View Current Trend – Brings up a real- time graph of values currently being trended. View Past Trends – Brings up the View Trend dialog which contains past trend files. Selected trend files can then be graphed. Stop Current Trend – Stops the current log in process.
Add DD Available DDs Check For Updates	The DD Library menu offers the following sub-menu options: Add DD – Brings up the dialog that adds a DD to the library. Also used to give labels to non-standard library DDs. Available DDs – Brings up a browser of all the DDs installed in the library. Check For Updates – Shows current DD Library version and checks for DD library update



Options User Group	 The Cloud menu offers the following submenu options: Options - Brings up the dialog box that sets the Cloud Options User - Brings up the dialog box that sets the User Options including Log in Group - Brings up the dialog box that sets the Group behaviors including joining a
Details Check-In (Return)	 The License window offers the following sub-menu options: Details – Shows License ID and Password information. Check-In (return) – Returns license to
Cascade Tile I Table View	our server and closes programThe Window menu offers the following sub-menu options:Cascade – Organizes open windows in a cascade arrangement.
-	 Tile – Organizes open windows as tiles 1 Table View – List of the open windows. Click to select the window to view
DevComFF Help Com Troubleshooter Device Help About DevComFF	The Help menu offers the following sub- menu options: DevComFF Help – Brings up Help information for the DevComFF.Win application.
	Com Troubleshooter – Brings up the DevComFF.Win Com Troubleshooter. (not available yet)
	 Device Help – Brings up help information for the connected device (if available). About DevComFF – Shows copyright information, support information, and application Version Number.

4.2.2 Using the Toolbar

When you start the application, by default, the toolbar buttons appears on the main window. If it fails to display, click **View** \rightarrow **Toolbar** option from the menu bar to bring up the toolbar.



Following are the buttons available in the DevComFF.Win application toolbar to perform the necessary tasks:

Button	Description	Corresponding Menu Option
	Load the Live List	Device → Live List
8	Send parameter changes to the device (Commit)	
3	Cancel parameter changes (Cancel)	
2	View Block device status	View \rightarrow Device Status
	View Event log	View → Event log

4.2.3 Icons

DevComFF.Win application uses different icons to represent different elements of the application. Following table lists the icons and their meanings:

Icon	Meaning
	Indicates a menu or submenu in the navigation tree
	Indicates a currently selected menu or submenu in the navigation tree
B	Online menu icon. The actual DD menu comes under this.
<u>v</u>	Indicates a "Variable" item
۹	Indicates a "Method" (Standard Operating Procedure) item
٩	Indicates an "Edit Display" item
	Indicates an "Image" item
	Indicates a "Graph" item



5 FUNCTIONS AND BASIC OPERATIONS

5.1 Overview

DevComFF.Win allows the user to monitor and configure a single device at a time in the field. Each device is associated with the DD when the device information is present. A DD may contain any of the following parameters/elements:

Variable

A variable is defined as the data contained in the device (e.g. Device Firmware Version). There are two types of variables:

Editable Variable – It allows the operator to modify the value and download it to the device.

Non-Editable Variable – It is a read-only data from the device.

Edit Display

This option is used to view a group of parameters. You can also modify a single parameter from this group, based on which other parameters of the device get altered.

For example, if the Engineering Unit of the device is modified, the corresponding Low Limits and High Limits change as per the Engineering Unit set.

Method / Standard Operating Procedure (SOP)

This option helps to perform various tests on the device for instance, Self Test. A Method or SOP is a series of steps that are executed in a sequence results in the completion of some device related tasks. When a method gets invoked, it gives various warning messages and options to the user, by which the user can thoroughly test the device. If a test is aborted by operator command at any stage of the sequence, the method invokes additional steps to bring the device back to its original state before the test.

5.2 Viewing Device Parameters

To view the configuration of the device that is connected to DevComFF.Win, perform the following steps:

Step	Action
1	Ensure that the application is running and communications have been established:



Step	Action			
	Srowser - [EIA Transducer Block]			- 🗆 X
	E Device Options View Blocks Trending DD Librar	v Cloud License Window Help		- # ×
	8 7 7 8 8 8 8	A REPORT REPORT OF		
	EIA Transducer Block	Item	Value Units	
	Parameters	Parameters	Value onita	
	Transducer Directory	Menus		
	- Collection Directory	④ Sensor Calibration Wizard		
	- Ca Test 13			
	Test 14			
	Test 17			
	Genus Genus Genus Genus			
	- Block Mode			
	Dynamic Variables			
	Primary Value			
	- 🗀 Secondary Value			
	- Tertiary Value			
	Configuration/Calibration			
	Block Mode			
	Primary Value Parameters Primary Value Range			
	Calibration			
	- Display Setup			
	🖻 🧰 Device Information			
	E-C Sensor Information			
	Sensor Range			
	Diagnostics/Alerts			
	Block Alarm			
	Alarm Summary Digital Event			
	B Query Device			
	TB Profile Parameters			
	Block Mode			
	- 🗀 Update Event			
	- 📴 Block Alarm			
	- Primary Value			
	- Primary Value Range			
	Sensor Range			
	General Secondary Value TB Original Parameters			
	Tertiary Value			
	Alarm Summary			
	Tag: FT106 - Device: EJA (Software Download) /LC1 - Device ID	\$945430008/0016034 - DD: \\$94543\0008\0105.ffe	C FF Activity	C Trend Activity
			, <u>,</u> , , , , , , , , , , , , , , , , ,	

The left pane of the window shows the menu structure and the right pane of the window displays corresponding parameters of the menu selected.

The menus are displayed depending on the type of device that is being connected. These menus are displayed based on the DD file of the particular device.

Note that the menus in this document are typical and will differ based on what FF device you are connected to. The menus are determined by the Device DD.

2 Expand the menu by clicking the "+" sign and double-click to view the device parameters. Below is an example of an expanded menu:

8 7 8 8 🔒 🖻 🖻			
😑 🤐 EJA Transducer Block	Item	Value Units	
E Parameters	Static Revision	8	
Transducer Directory	2 Tag Description	0x20,0x20,0x20,0x20,0x	
Collection Directory	2 Strategy	1	
- Test 13	Alert Key	1	
Test 14	Block Mode		
Test 17	🕸 Block Error	None	
R C Menus	🗀 Update Event		
Block Info	E Block Alarm		
	Transducer Directory		
- Block Mode	Transducer Type	Standard Pressure	
😑 🧰 Dynamic Variables	2 XD Error	No error	
— Primary Value	Collection Directory Primary Value Type	differential pressure	
- Secondary Value	Primary Value Type	differential pressure	
- Tertiary Value	Primary Value Primary Value Range		
Configuration/Calibration	Cal Point Hi	20	
Block Mode	(a) Cal Point Lo	20	
Primary Value Parameters	Cal Min Span	0.71117	
Primary Value Range	Cal Unit	DSI	
Calibration	Sensor Type	Silicon resonant	
Display Setup	Sensor Range		
Device Information	Sensor SN		
	Sensor Cal Method	factory trim standard cal	
Sensor Information	Sensor Cal Loc		
- Sensor Range	1 Sensor Cal Date	01/01/1984 00:00:00.000	
Diagnostics/Alerts	Sensor Cal Who		
- Block Alarm	Secondary Value		
- 🛄 Alarm Summary	Secondary Value Unit	kPa	
Update Event			
E Ca Query Device			
TB Profile Parameters			
Block Mode			
Update Event			
Block Alarm			
- Primary Value			
- Primary Value Range			
- Cal Sensor Range			
Secondary Value			
🖻 🧰 TB Original Parameters			
- California Tertiary Value			
Alarm Summary			

3 Select the menu and view the associated parameters to view the device information.



5.3 Configuring Device Parameters

5.3.1 Overview

DevComFF.Win allows you to view and configure the field device parameters based on the device description. However, the device vendor defines most of the parameters at the factory. These parameters become read only for the users and the user cannot modify the values. The related variables are grouped under various menus of different levels as defined in the DD file. Expand or collapse the tree view using the "+" or "-"sign to access the device configuration parameters.

Following table describes the details about the device configuration:

Step	Action			
1	Ensure that the application is running and communications have been established:			
	The left pane of the window displays corresponding parameters of the menu selected.			
2	Expand the menu by clicking the "+" sign and double-click to view the device parameters.			
3	There are three types of variables: dynamic, read/write and read only. The parameters that are grayed out indicate that these are dynamic variables (variables that get updated online by the device) or read only variables.			
	Following points describe how the device parameters represents their status when connected to DevComFF.Win:			
	Bold Font: Modifiable Values			
	Normal Font: Menu Item			
	Gray Font: Dynamic or Read Only Variables			
4	Select the parameter and configure the values, as required.			
5	The subsequent topics explain how to configure device parameters.			



5.3.2 Variable

To edit the parameter variables of the connected device, perform the following steps:

Ensure that the app	1			
een established:	plication is running	g and com	municatio	ns have
Image: Source Register Image: Source Register Image: Register	ene Windew Help		Value Units	
E	Dense Green Yeer Broks Tending TO Likey Chod Li To The Second Se	Durie Green View Brots Yearding O Likewy Chaol Licews Wiedow Help	Deries Greinen Vereine Breise Tereding 100 likers (Level Vierleer Help:	Deries Greinen Vereine Binds bereinen Personeter Personeter Cardisca Intervent Cardisca Intervent Cardisca Intervent Deries Greinen Deries Greinen Der

Expand the menu by clicking the "+" sign and double-click to view the device parameters.

V Browser - [Explorer]			
Device Options View Blocks Trending DD Libr	ary Cloud License Window Help		
🗑 8 8 🔗 🖬 🖻			
EIA Transducer Block	Item	Value Units	
😑 🤐 Parameters	Static Revision	0	
- Transducer Directory	2 Tag Description	0x20,0x20,0x20,0x20,0x	
- Collection Directory	2 Strategy	1	
- Ca Test 13	Alert Key Block Node	1	
- Test 14		None	
Test 17	Block Error	None	
🗄 🤐 Menus	Block Alarm		
Block Info	Transducer Directory		
- Block Mode	Transducer Type	Standard Pressure	
😑 🧰 Dynamic Variables	XD Error	No error	
Primary Value	2 Collection Directory		
- Secondary Value	Primary Value Type	differential pressure	
Tertiary Value	Primary Value		
Configuration/Calibration	Primary Value Range		
Block Mode	Cal Point Hi	20	
Primary Value Parameters	Cal Point Lo	0.71117	
Primary Value Parameters	Cal Unit	0.71117	
Calibration	Sensor Type	Silicon resonant	
- Display Setup	Sensor Range	Juicon resonant	
Display Setup	Sensor SN		
Device Information	Sensor Cal Method	factory trim standard cal	
	Sensor Cal Loc		
Sensor Range	Sensor Cal Date	01/01/1984 00:00:00.000	
Diagnostics/Alerts	Sensor Cal Who		
-Block Alarm	Secondary Value		
- Alarm Summary	Secondary Value Unit	kPa	
Update Event			
🖹 🧰 Query Device			
😑 😋 TB Profile Parameters			
- 📋 Block Mode			
- 🛄 Update Event			
- 🔁 Block Alarm			
- Primary Value			
- Primary Value Range			
- 🗀 Sensor Range			
Secondary Value			
E 🛄 TB Original Parameters			
Tertiary Value			

3 Double-click the variable to edit it. The following dialog box appears on the screen:



Srowser - [Explorer]				- 0
Device Options View Blocks Trending DD Librar	y Cloud License Window Help			×.
🖩 🕾 🕾 😹 🖬 🖻				
EIA Transducer Block	Item		Value	Units
E 🗃 Parameters	Static Revision		8	
- Transducer Directory	Tag Description		0x20,0x20,0x20,0x20,0x	
Collection Directory	Strategy		1	
- Carl Test 13	Alert Key		1	
-C1 Test 14	Block Node - Target Block Node - Actual		Auto	
- Test 17	Block Node - Actual		OOS.Auto	
E G Menus	Block Hode . Normal		Auto	
Block Info	Block Error	×	None	
Block Mode	Update Event , Unackne		Acknowledged	
Dynamic Variables	Update Event , Update :	Target	Reported	
Primary Value	Update Event . Time St.		01/01/1972 00:00:00.00	
Secondary Value	Update Event , Static Re	ROut	0	
	Update Event . Relative	•	0	
Tertiary Value	Block Alarm . Unacknow	RCm	Acknowledged	
E Configuration/Calibration	Block Alarm . Alarm Sta	U III	Clear-Reported	
- Block Mode	Block Alarm . Time Star	() Cas	01/01/1972 00:00:00.00	
😑 🤐 Primary Value Parameters	😵 Block Alarm . Subcode	*	Other	
 Primary Value Range 	🔁 Block Alarm . Value	🙆 Auto	0	
Calibration	Transducer Directory			
- 🗀 Display Setup	Transducer Type	Men	Standard Pressure	
B Device Information	XD Error		No error	
E C Sensor Information	Collection Directory	0 0		
Sensor Range	Primary Value Type Primary Value . Status	- 1979	differential pressure	
Diagnostics/Alerts	Primary Value . Status	IMan	Good_NonCascade::NonS -0.012015	
Block Alarm	Primary Value Range . 1		-0.012015 71.117	
Alarm Summary	Primary Value Range . 1	005	-71.117	
Update Event	Primary Value Range . 1		psi	
Query Device	Primary Value Range . I		1	
B TB Profile Parameters	Cal Point Hi	OK Cancel	20	
	Cal Point Lo		0	
- Block Mode	Cal Min Span		0.71117	
- Update Event	Cal Unit		psi	
- Block Alarm	Sensor Type		Silicon resonant	
- Primary Value	Sensor Range . EU at 10		71.117	
- Primary Value Range	Sensor Range . EU at 0%		-71.117	
- 🗀 Sensor Range	Sensor Range . Units Ind	lex	psi	
Secondary Value	Sensor Range . Decimal		1	
😑 🤐 TB Original Parameters	Sensor SN		factory trim standard cal	
- Tertiary Value	Sensor Cal Nethod		factory trim standard cal	
Alarm Summary	Sensor Cal Loc		01/01/1984 00:00:00.000	
	Sensor Cal Date		01/01/1984 00:00:00.000	

- 4 Make the changes to the parameter value, as required.
- 5 Click **Set** to accept the changed value. The change gets reflected as shown:

8 7 7 8 1 1			
EIA Transducer Block	Item	Value Units	
Parameters	Static Revision	8	
Transducer Directory	Tag Description	0x20,0x20,0x20,0x20,0x	
Collection Directory	Strategy	1	
Test 13	Alert Key	1	
	Block Node . Target	005	
- 🔁 Test 14	Block Mode . Actual	Auto	
Test 17	Block Mode . Permitted	OOS,Auto	
🖻 🧰 Menus	Block Mode . Normal	Auto	
- Block Info	Block Error	None	
- Block Mode	Update Event . Unacknowledged	Acknowledged	
🕀 🎦 Dynamic Variables	Update Event . Update State	Reported	
Primary Value	Update Event . Time Stamp	01/01/1972 00:00:00.00	
Secondary Value	Update Event . Static Rev	0	
Tertiary Value	Update Event . Relative Index	0	
	Block Alarm . Unacknowledged	Acknowledged	
Configuration/Calibration	Block Alarm . Alarm State	Clear-Reported	
- Block Mode	Block Alarm . Time Stamp	01/01/1972 00:00:00.00	
😑 🤐 Primary Value Parameters	Block Alarm . Subcode	Other	
- Primary Value Range	Block Alarm . Value	0	
Calibration	C Transducer Directory		
Display Setup	Transducer Type	Standard Pressure	
E Ca Device Information	XD Error	No error	
Sensor Information	Collection Directory		
Sensor Range	Primary Value Type	differential pressure	
Diagnostics/Alerts	Primary Value . Status	Good_NonCascade::NonS	
	Primary Value . Value	-0.012015	
- Block Alarm	Primary Value Range . EU at 100%	71.117	
- 🗀 Alarm Summary	Primary Value Range . EU at 0%	-71.117	
Update Event	Primary Value Range . Units Index	psi	
🖻 🛄 Query Device	Primary Value Range - Decimal	1	
😑 🧰 TB Profile Parameters	Cal Point Hi	20	
Block Mode	Cal Point Lo	0	
- Update Event	Cal Min Span	0.71117	
Block Alarm	Cal Unit	psi	
- Primary Value	Sensor Type	Silicon resonant	
Primary Value Primary Value Range	Sensor Range . EU at 100%	71.117	
	Sensor Range . EU at 0%	-71.117	
- Cal Sensor Range	Sensor Range , Units Index	psi	
- Canadary Value	Sensor SN	1	
😑 🧰 TB Original Parameters	Sensor Cal Method	factory trim standard cal	
- Tertiary Value	Sensor Cal Method	factory trim standard cal	
Alarm Summary	Sensor Cal Date	01/01/1984 00:00:00.000	
-	Sensor Cal Date	01/01/1964 00:00:00.000	
	ag sensor car who		

- 6 Click on the **Send** icon $\frac{2}{8}$ to commit the changes to the device.
- 7 When the value is no longer yellow, the variable has been changed in the device.



Srowser - [Explorer]			- 1
Device Options View Blocks Trending DD Libr	ary Cloud License Window Help		
B 7 7 8 8 B B			
EIA Transducer Block	Item	Value U	N
Parameters	Static Revision	value	1
Transducer Directory	Tag Description	0x20.0x20.0x20.0x20.0x20.0x	
Collection Directory	(a) Strategy	1	
	Alert Key	i	
Test 13	Block Mode . Target	005	
- Carl Test 14	Block Mode , Actual	Auto	
Test 17	Block Mode . Permitted	OOS.Auto	
E- 🛄 Menus	Block Hode . Normal	005	
Block Info	Block Error	None	
- Block Mode	Update Event . Unacknowledged	Acknowledged	
Dynamic Variables	🔁 Update Event . Update State	Reported	
Primary Value	🔁 Update Event . Time Stamp	01/01/1972 00:00:00.00	
Secondary Value	😕 Update Event . Static Rev	0	
Tertiary Value	Update Event . Relative Index	0	
Configuration/Calibration	💩 Block Alarm . Unacknowledged	Acknowledged	
Block Mode	Block Alarm . Alarm State	Clear-Reported	
Primary Value Parameters	Block Alarm . Time Stamp	01/01/1972 00:00:00.00 Other	
	Block Alarm . Subcode	other	
Primary Value Range	Block Alarm . Value	0	
Calibration	Transducer Directory	Standard Pressure	
Display Setup	XD Error	Standard Pressure No error	
B Device Information	Collection Directory	NO EPPOP	
E Cal Sensor Information	Primary Value Type	differential pressure	
Sensor Range	Primary Value , Status	Good NonCascade::NonS	
Diagnostics/Alerts	Primary Value , Value	-0.012015	
Block Alarm	Primary Value Range , EU at 100%	71.117	
- Alarm Summary	Primary Value Range , EU at 0%	-71.117	
Update Event	Primary Value Range . Units Index	psi	
Query Device	Primary Value Range . Decimal	1	
H TB Profile Parameters	Cal Point Hi	20	
Block Mode	Cal Point Lo	0	
Update Event	Cal Min Span	0.71117	
- Block Alarm	😋 Cal Unit	psi	
Primary Value	Sensor Type	Silicon resonant	
	 Sensor Range - EU at 100% Sensor Range - EU at 0% 	71.117	
- Primary Value Range	 Sensor Range . EU at 0% Sensor Range . Units Index 		
- Cal Sensor Range	Sensor Range . Decimal	psi 1	
- Cal Secondary Value	Sensor Kange - Decimal	1	
😑 🧰 TB Original Parameters	Sensor Si Sensor Cal Method	factory trim standard cal	
- Tertiary Value	(9) Sensor Cal Loc	tactory train standard cat	
- 🛄 Alarm Summary	(9) Sensor Cal Date	01/01/1984 00:00:00.000	
	Sensor Cal Who	32/01/1904 00.00.000	

The Send and Cancel Icon will now be grey as well. This indicates that there are no new changes to be sent to the device.

5.3.3 Executing Methods or Standard Operating Procedures

Methods are defined in the DD file for the device that DevComFF.Win is connected to. You can select the Method and execute it for calibrating the device, trouble shooting, etc. Method execution leads you through a number of steps, like in a wizard.

A Few examples of methods include:

- Calibration of the device
- Run the advanced diagnostic test procedure
- Execute tests to gather information on device operation.



To execute a Method, perform the following steps:

L		application is running a	nd communications	have been
	established:			- 🗆 ×
	Bowser - (EX instancer block) E Device Options View Blocks Trending DD Library	Cloud License Window Help		- U X
	8 7 7 8 8 8			
	🗈 🔄 EIA Transducer Block	Item	Value Units	
	Parameters Transducer Directory	Parameters		
	Collection Directory	Sensor Calibration Wizard		
	- 🛄 Test 13			
	- Car Test 14			
	e- Menus			
	Block Info			
	- Block Mode			
	Oynamic Variables Primary Value			
	- Secondary Value			
	- Tertiary Value			
	Configuration/Calibration Block Mode			
	Biock Mode Primary Value Parameters			
	- Primary Value Range			
	Calibration			
	Display Setup			
	Sensor Information			
	Sensor Range			
	Diagnostics/Alerts			
	- 📴 Block Alarm - 📴 Alarm Summary			
	Update Event			
	Query Device			
	B TB Profile Parameters			
	Update Event			
	Block Alarm			
	Primary Value			
	- C Primary Value Range - C Sensor Range			
	Secondary Value			
	😑 🧰 TB Original Parameters			
	- Tertiary Value			

Expand the menu by clicking the "+" sign and double-click to view the device parameters.

- 2 Select the menu where the method is present and double-click to execute it.
- 3 Below is an example of a Method dialog box:

Low Doint(C	ation point?			
Low Point(Ca				
High Point(C Exit				
ess OK button to cr	ontinue method exec	ution of Abort butte	on to abort method	1 execution.

- 4 Click **Next** to move to the next dialog in the Method sequence.
- 5 Or, click **Abort** to cancel the Method execution.
- 6 Click **Help** to get specific help for that step of the Method. This Help information is provided by the device DD.



5.4 Calibrating FF Field Devices

Calibration of field devices are achieved by executing the Methods or Standard Operating Procedures that are specific to device. Methods are defined based on the test parameters specific to the device, providing information for the calibration of that device.

See the previous section for Method execution.

5.5 Viewing the Device Status

DevComFF.Win provides the user with the ability to monitor the device specific status of the device Blocks.

When there is error communicating with the device, it is recognized and indicated to the user. The user can view more details of such errors, using the View \rightarrow Device Status from the main window.

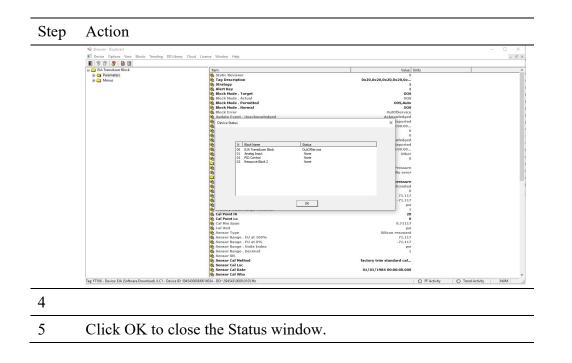
To view the device Block status, perform the following steps:

Ensure that the a been established	application is runnin	g and commu	inications ha	ave
Benerar - [Lik Ranshace Black] Proce: Origon: New Block Revel, 2014ery 1 Proce: Origon: New Block Revel, 201	Cloud Leene Window Help		Value Units	- □ x

the device parameters.
3 Select View → Device Status from the main window or choose the

status icon 🔕 from the toolbar. Following window is displayed:





5.6 Viewing the Event Log

DevComFF.Win allows the user to view the error conditions of the device and the communication network.

To view the Event-Status Log, perform the following steps:

Step	Action			
1	Ensure that the established:	application is running	and communication	s have been
	V Browser - (EA Transducer Block) Derice Options View Block Tending D0 Library Set Set Set Set Set Set Set Set Set	Cloud License Window Help	Value Units	- 🗆 X
	Celection Detectory Celection Detectory Celection Detectory Celection Detectory Text 14 Celection Detectory	⊕ Sensor Calibration Wizard		
	Bock Mod Bock Mod Bock Mod Bock Mod Bock Mod Constraints Constraints Constraints Bock Mod Bock			
	Carry Dense Parameters Carry Dense Parameters Carry Dense Parameters Dense Mode Dense Mode Dense Mode Dense Mode Dense Mode Secondary Value res Secondary Value res Carry Value Testry Value Atem Sammany			
	Tag: FT106 - Device: EIA (Software Download) /LC1 - Device ID:	945430008J0016034 - DD: \594543\0008\0105#e	S FF Activity	O Trend Activity

Expand the menu by clicking the "+" sign and double-click to view the device parameters.

2 Select View \rightarrow Event Log from the main window or choose the



Step	Action	
	Event log icon 🗎 from the toolbar. An add	litional Event Log window
	is displayed:	
	V: Brawer: Hithefer Veral E Denic: Optimer Microbine Boblinary Cloud License Window Help B ♥ Ø Ø @ D D	- D X
	Evert Shara Log 31/2021 15553 Litter Messages 31/2021 15553 Communication Diver Failed 31/2021 15524 Communication Diver Failed 31/2021 15524 Device manager has loaded the device for 0x10005545800 from CLPvcComSolVPLibrary/594543/0000/015/fo 31/2021 15524 Device manager has loaded the device for 0x10005545800 from CLPvcComSolVPLibrary/594543/0000/015/fo	
	Tegr FT106 - Device EA Getheure Devenlaud / (1 - Device ID: 59453000000160146 - DD: 1594340.0000.0105.#in	O FF Activity O Trend Activity NUM
	To close, go to View \rightarrow Event menu option	n or click on the 🗎 icon

5.7 Saving Device Configuration to Disk (Document Device)

FF Device configurations can be saved to disk as a PDF and comma delimited text file to document the device. Data from the text file can be imported into configuration management software packages. A PDF version of the configuration is also created.

To save device configurations to disk, perform the following steps:



Step Action

Browser - [Explorer] Device Options View Blocks Trending	DD Library Cloud License Window Help	
🛐 🐨 🐨 😰 🖬 🗟 D 🛄 EJA Transducer Block	Item	Value Units
Caster State C	Printing Vieller Barger, Units Index Primary Vieller Barger, Decimal Gal Parts II Gal Parts II Gal Parts II Gal Parts Gal Parts	Conjo PPF Same Long
TB Original Parameters Tertiary Value Alarm Summary	愛 Sensor SN 愛 Sensor Cal Method 愛 Sensor Cal Loc 愛 Sensor Cal Date	factory trim standard cal 01/01/1984 00:00:00.000
	eg Sensor Cal Date en e	© FF Activity O Trend Activity
default file n be changed b	•	ndows User Accounts. The The directory and filename c owse" button to change

5 Press the "Save Device Config" button to save device configuration.

5.8 Download Configuration to Device

Saved configuration files can be downloaded back to devices. This is useful for "Cloning" a device, either for replacement or plant setup.

To save device configurations to disk, perform the following steps:

Step	Action
1	Ensure that the application is running and communications have been established:



😒 Browser - [EJA Transducer Block]			- 0
R Device Options View Blocks Trending DD Lib	rary Cloud License Window Help		
8 8 8 8 B B			
EIA Transducer Block	Item	Value Units	
Parameters	Parameters	value onits	
Transducer Directory	Menus		
Collection Directory	Sensor Calibration Wizard		
Test 13			
Test 14			
Test 17			
E Menus			
Block Info			
Block Mode			
Dynamic Variables			
Primary Value			
- Secondary Value			
Tertiary Value			
E Configuration/Calibration			
Block Mode			
Primary Value Parameters			
- Primary Value Range			
Calibration			
- Display Setup			
Device Information			
E-C Sensor Information			
Sensor Range			
Diagnostics/Alerts			
- Block Alarm			
- Alarm Summary			
Update Event			
Query Device			
TB Profile Parameters Block Mode			
Update Event			
Primary Value			
Primary Value Primary Value Range			
Sensor Range			
Secondary Value			
TB Original Parameters			
Tertiary Value			
Alarm Summary			

2 Select **Device** → **Download** from the main window. The Download Dialog Box is displayed:

Srowser - [Explorer]		- 0 X
E Device Options View Blocks Trending DD Libri	ary Cloud License Window Help	_ # ×
8 7 7 8 1 2		
EJA Transducer Block Greeneters Menus	Download File Available Configurations (Double Click to Select)	×^
	N Tag Device Date Location	-
	01 В ROUTIEMP2 144 2006 00 Loop 02 FT106 EAK Software Download AC1 2007 80 A2 Lood	
	Device Tag FTIGE Device Tag Device Tag Device Tag Device Tag To fine	
	Date	
	Mater Wite Vew Date Up/Comitad Otom	
	Sensor Cal Date 01/01/1984 00: Sensor Cal Who	00:00.000
Tag: FT106 - Device: EIA (Software Download) /LC1 - Device II		O FF Activity O Trend Activity NUM

3 The available configurations are displayed. You can sort on each column by clicking it.

To get details about a configuration, select the desired configuration and double click it. The details will be displayed below:



Step	Action		
	Browser - [Explorer] Device Options View Blocks Trending DD Lib	anny Cloud Licence Window Help	×
	B 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Download File Analabic Configuration (Daubh Cick to Select) N Tag Dave Location N Tag Develow Date Location R Proce Date Location Edit Select) Coll Training Develow Date Location Edit Select) Edit Select Coll Training Download(RE1 2011/01/02 Location	×
	Tig FT106 - Device DA (Gabawe Devolval) //C/ - Device	Device Tag F116Bows Conjustor Fit & F116BowsBows Device [LA: [Schema Dowsdark ACI Fit Name (Culter/schema F166, 201002, 165500) Dev [201002/(rearMan).Day] Heter Une Une Une Device	3.000
4		ge the desired Tag by editing the Co	, Containing , Constraining , Jossey
5	connected dev	te" button to write device configura ice. The device must be the same ty file. If they are different, the write c	pe as the
6		the PDF file for the configuration fi e desired configuration and pressing	•
7	You can delete	e configurations by double clicking	on the desired

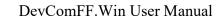
configuration and pressing "Delete".

5.9 Customizing PDF File Output

FF Device configurations can also be saved to disk as PDF Files to document the device. The header, footer, and technician name can be entered to customize the PDF file to make it into a configuration report.

To customize the PDF output, perform the following steps:

Step	Action
1	Press the "PDF Setup" button on Document Device Dialog Box:





Step	Action		
	Srowser - [Explorer]		- 🗆 X
	Device Options View Blocks Trending DD Librar	c Court License Window Islan	- 6 ×
		y cool access minor map	
	8 7 7 8 8		
	EIA Transducer Block	Item Value Units	^
	😑 😋 Parameters	🕲 Static Revision 8	
	- Cal Transducer Directory	(a) Tag Description 0x20,0x20,0x20,0x20,0x (b) Strategy 1	
	- Collection Directory	Strategy 1 A definition of the second secon	
	- Test 13	One how	
	- Can Test 14	Block Mode - Actual Auto	
	- Ca Test 17	Block Mode . Permitted OOS,Auto	
	🖻 🤐 Menus	Block Mode . Normal OOS	
	- 🛅 Block Info	Block Error None	
	- 🔛 Block Mode	Description of the second seco	
	Dynamic Variables	🕲 Update Event . Update State Reported	
	- Cal Primary Value	Upda Document Device X Docu	
	- Cal Secondary Value		
	- Tertiary Value	Opda Fie Name Acknowledged	
	Configuration/Calibration	Block CWJess/Jobos/FF Confgs/FT106_20210302_144603 Browse lear-Reported	
	- Block Mode	Block 00:00:00.00	
	😑 🦲 Primary Value Parameters	Block Neter Other	
	— Primary Value Range	No. Block 0	
	Calibration	🛄 Trans	
	- Display Setup	🕲 Trans 🚽 🗸 dard Pressure	
	😑 🦲 Device Information	XD Er No error Notes' must be less than 250 characters.	
	E-C Sensor Information	Contra Contra Contra Contra Contra Contra Contra Contra Contra Contra Contra	
	Sensor Range	Prima Scale:NonS	
	Diagnostics/Alerts	Prima -0.012015	
	- 🗀 Block Alarm	Prima Save Device Config PDF Setup Close 71.117	
	- Alarm Summary	Prime -71.117	
	Update Event	🕲 Primary Value Range . Units Index psi	
	Query Device	Primary Value Range . Decimal	
	🗄 🤐 TB Profile Parameters	Operation Control Contro Control Control Control Control Control Control Control Control	
	Block Mode	(a) Cal Point Lo 0 (a) Cal Min Span 0.71117	
	Update Event	Col Min Span O/1117 Option Span	
	Block Alarm	Sensor Type Silicon resonant	
	Primary Value	Sensor Range, EU at 100% 71.117	
	Primary Value Range	Sensor Range . EU at 0% -71.117	
	Sensor Range	Sensor Range . Units Index psi	
	Secondary Value	Sensor Range . Decimal 1	
	🖃 🧰 TB Original Parameters	Sensor SN	
	Tertiary Value	🗞 Sensor Cal Method factory trim standard cal	
	Alarm Summary	⊕ Sensor Cal Loc ⊕ Sensor Cal Date 01/01/1984 00:00:00.000	
	_	Sensor Cal Date 01/01/1984 00:00:00 Sensor Cal Date 01/01/1984 00:00:00	
	Ton FTIOF Device FIA (Software Developed) (LC1, Device ID		C Trend Antiche

2 The PDF Setup Dialog box is displayed:

Header:	User Manual Device Config
	🔲 Use Tag as Header
Footer:	Footer for the Device Config
Tech:	Guy Instrument
	OK Cancel

- 3 Enter data as needed and press OK. The data is saved for future configuration saves.
- 4 Below is a sample PDF file.



Step	Action
------	--------

	User Header		
	Device Configuration File: Rev 1.0		
File: C:\Users\jdobos\FF Config	s\FT106_20210302_144603		_
Tag: FT106			
Device ID: 5945430008J001603	34		
DD: \594543\0008\0105.ffo			
Date (yyyy-mm-dd): 2021-03-02			
Time (hr:mn:sc): 02:47:54 PM			
Tech: Tech name			
Notes:			
Variable	Value	Units	
Block: EJA Transducer Block			
Transducer Type	Standard Pressure		
XD Error	No error		
Primary Value Type	differential pressure		
Cal Point Hi	20		
Cal Point Lo	0		
Cal Min Span	0.71117		
Cal Unit	psi		
Sensor Type	Silicon resonant		
Sensor SN			
Sensor Cal Method	factory trim standard calibration		
Sensor Cal Loc			
Sensor Cal Date	01/01/1984 00:00:00.000		
Sensor Cal Who			
Secondary Value Unit	kPa		
Tertiary Value Unit	°C		
Trim PV Zero	0		
Trim Mode	Trim disable		
Ext Zero Enable	Enable		
Model	EJA		
Display Mode	Engineering Unit		
Display Cycle Test 1	1		
Test 3	0		
Test 4	19		
Test 5	43		
Test 6	43		
Test 7	-Empty-		
Test 8	0		
Test 9	59454300080000000		

5.10 License File Transfers

The license file can be transferred easily to other computers. The process is a "Check-In/Check-Out" process. When a license is on the computer, it is considered "Checked-Out". When the license is on the license server, it is considered "Checked-In". When the license is "Checked-in", it can be "Checked-Out" by other users. This enables the license to be shared by many users.

5.10.1 Check-In

To Check-In the license from the current computer to the License Server, perform the following steps:

Step	Action
1	Verify your PC is connected to the Internet.
2	Select "Check-In" from the "License" Menu.
	If the current computer is not licensed, an error message will appear. If licensed, the program will contact the License Server via the internet. It will check-in the license using the License ID and Password used in Activation. The current computer will then become un-activated.



5.11 Options Menu

6.12.4.2 Language

Certain DD's can be used in different languages. English is the default setting but some support other languages. Note that main program frame will always be English. Only the DD based items – menus, variables, etc. will change language. And will only change if the DD supports that language. In order to change the Language setting, perform the following steps:

Step	Action			
1	Ensure that the app	plication is running.		
	Secour - (DA Transfacer Bleck) Cover - Options Vise Bleck Tending DD Likery Cloud L Cover - Options Vise Bleck Tending DD Likery Cloud L Cover - Options - Options Cover - Options Co	cente Window Help	Value Units	
	Sence Information Sence Information Sence Atomy Guide Sence Guide Sence	01604 - 00. V3447-0000-0164##	O If Acouty	O Trend Activity

2 Select **Options** → **Basic** from the main window. The Options Dialog Box is displayed



Sten

Action

biep	
	Options X
	DD Language: English
	mobiLink Settings
	Save Cancel
3	Click the "DD Language" dran down to select a different language
3	Click the "DD Language" drop down to select a different language.
	DD Language: English

- 4 Select a language to translate the DD into. Click Save to save the changed settings.
- 5 Restart DevComFF.Win for the changes to take place. If the language is supported the DD will be translated. If not, the DD with default to English.

5.12 Trending

5.12.1 Define Trend

The **Trending** menu is used to track dynamic device parameters over a specified period of time. Once a parameter is tracked, it can be graphed and compared against other parameters tracked on the same time period. Before a parameter can be graphed, a trend must first be created. To create a trend, perform the following steps:

Step Action



Step	Action			
1	Ensure that the a	application is running a	and is connected to a	device.
	Servicer - [EJA Transducer Block] ■ Device Options View Blocks Trending DD Library - ■ Service Options View Blocks Trending DD Library -	Cloud License Window Help		- 🗆 X
	A Transducer Block Parameters	Item	Value Units	
	Collection Directory	Calibration Wizard		
	- Test 13			
	- Test 14			
	E - Menus			
	Block Info			
	🕀 🛄 Dynamic Variables			
	Primary Value Secondary Value			
	Secondary Value Tertiary Value			
	E Configuration/Calibration			
	Block Mode			
	Primary Value Parameters			
	Calibration			
	Display Setup Device Information			
	E Sensor Information			
	Sensor Range			
	Diagnostics/Alerts Block Alarm			
	Alarm Summary			
	Update Event			
	Guery Device TB Profile Parameters			
	Block Mode			
	Update Event Block Alarm			
	Primary Value			
	- Primary Value Range			
	Sensor Range			
	TB Original Parameters			
	Tertiary Value			
	- Alarm Summary			
	Tag: FT106 - Device: EIA (Software Download) /LC1 - Device ID: 594		O FF Activity O	Trend Activity

2 Select **Trending** → **Define Trend** from the main window. The **Define Trend** Dialog Box is displayed:

Srowser - [Explorer]						- 🗆 X
E Device Options View Blocks Trending DD Library Cloud License	Window Help					8 ×
8 7 7 8 8 8						
EIA Transducer Block	ltem			Value	Units	A
	h Static Revisi	00		9		
	a Tag Descript		0x20	,0x20,0x20,0x20,0x		
	2) Strategy			1		
	Alert Key	Define Trend	×	1		
	Block Hode .			005		
	Block Hode	Select parameter(s). Maximum displayed 4. use CTRL key to select		005		
	Block Mode .			00S,Auto		
	Block Hode .	Select All		005		
	Block Error			OutOfService		
	🕗 Update Even			Acknowledged		
	Update Even	Analog Input Alam State		Reported		
	💫 Update Even			1/1972 00:00:00.00		
	🔁 Update Even	Analog Input Alam Summary Unacknowledged		0		
	🖄 Update Even	Analog Input Alam Summary Unreported		0		
	Block Alarm	Analog Input Block Alam Alam State		Acknowledged		
	Block Alarm	Analog Input Block Alam Subcode Analog Input Block Alam Time Stanp		Clear-Reported		
	Block Alarm	Analog Input Block Alam Unacknowledged		1/1972 00:00:00.00		
	Block Alarm	Analog Input Block Alam Value		Other		
	Block Alarm	ånalon Inneit Riock Finor		0		
	Transducer	Enter Interval 1 Seconds -				
	Transducer			Standard Pressure		
	A XD Error	For how long? Seconds F Continuous		No error		
	Collection Di					
	Primary Valu			differential pressure		
	Primary Valu			tOfService:NotLimited		
	Primary Valu		Biowse	0		
	Primary Valu			71.117		
	Primary Valu			-71.117		
	Primary Value Primary Value			psi 1		
	Cal Point Hi	Notes:		1		
	Cal Point Hi		A.	20		
	Cal Min Span			0.71117		
	Cal Unit			0.71117		
	Sensor Type			Silicon resonant		
	Sensor Rang			71.117		
	Sensor Rang			-71.117		
	Sensor Rang			psi		
	Sensor Rang			psi 1		
	A Sensor SN					
	Sensor Cal P	lethod	facto	rv trim standard cal		
	Sensor Cal L		Ideto	,		
	Sensor Cal D		01/0	01/1984 00:00:00.000		
	Sensor Cal V					*
Tag: FT106 - Device: EJA (Software Download) /LC1 - Device ID: 5945430008J001603	4 - DD: \594543\00	08\0105.ffo			O FF Activity O	Trend Activity NUM

3 Select the information for the log file:

Select Parameters – Select up to four parameters to display at a time. More than four can be recorded. Press the CNTRL key to select multiple parameters.

Select All – All parameters are recorded, but only four are displayed.

Enter Interval - Input a number and select an interval from the drop down box, i.e. Seconds, Minutes, Hours, and Days.

For How Long? – Input duration for how long to log the parameter(s). This part will be grayed out if the "Continuous" check box is selected. Unselect it for a finite duration.

Filename – The default directory is based on Windows User Accounts however a log file can be saved anywhere.

Create CSV File – When selected a .csv file is also created for use in

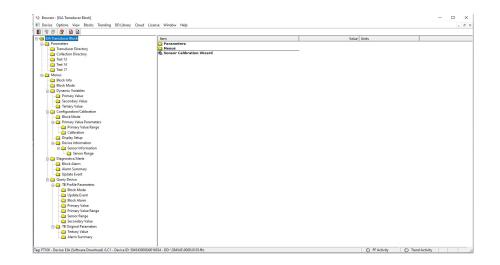


Step	Action		
	3 rd party software.		
	Continue Trend on DevComFF.Win Restart – When selected, the define trend is automatically restarted whenever DevComFF.Win is launched.		
	Notes – The section can only be 250 characters long.		
4	Click the "Start" button to start the Trend.		
5	The Trend will then be started. At the lower right hand corner of DevComFF.Win the "Trend Activity" light will come on. This indicates that a Trend is in process. You cannot start another Trend until this one is finished or the user stops the trend manually.		
	FF Activity Trend Activity		

5.12.2 View Current Trend

When a trend is created DevComFF.Win creates a window that shows the graph of the current trend. To view this trend, perform the following steps:

Step	Action
1	Ensure that the application is running and is connected to a device.



2 Ensure that a trend is in progress. The "Trend Activity" light at the bottom of the screen is on if a trend is in progress. If not then the light will be off.





Step	Action	
3	Select Trending → View Current Trend from the r	main window.
4	The DevComFF.Win Trend dialog opens up.	
	Tay F1161 - Denice Bia (Software Download) (J.C1 - Denice Di 35654300000016934 - DO 1556543000000193860 O 175	F Activity NUM

The user can manipulate the graph as desired. "Tracking" is the term used to describe how the graph control follows the data, changing the axis in real time so that all of the data is shown. Below are the specific parts of the graph:

Tool Bar: There are multiple things that the user can do with the graph.



<u>Resume All Tracking</u>: The "Resume All" button - • is grayed out while tracking. If either axis is changed or the "Pause" button is pressed, this will be come green - • Pressing "Resume All Tracking" will resume the tracking on the graph.

Pause All Tracking: The "Pause" button - III - pauses the graph in its current state. Data is still added, however the current X-axis and Y-axis spans no longer change. Pressing the "Resume" button will continue tracking.

Scroll Axis: This is the default way to scroll both the X and Y-axis.

The "Scroll Axis" button - + - allows the user to scroll in both directions on the graph.

<u>Zoom Axis</u>: The "Zoom Axis" button - $\frac{1}{2}$ - allows the user to shrink or enlarge the scale of either axis. By moving up or down, left or right, the span of each axis is changed.

<u>Zoom Out All Axis</u>: The "Zoom Out All Axis" button - \square - zooms out both the X-axis and Y-axis at the same time giving the user a broader look at the graph.

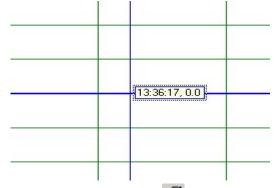


Step	Action
Step	Action

Zoom In All Axis: The "Zoom In All Axis" button - 🔍 - zooms in both the X-axis and Y-axis at the same time giving the user view over a smaller time period.

<u>Zoom Box</u>: The "Zoom Box" button - — - changes the cursor allowing the user to select a specific area of the graph to zoom in on for a more detailed look.

<u>Cursor</u>: The "Cursor" button - $\bullet \bullet \bullet$ - adds a cursor to the screen that gives the coordinates of the graph at a certain time. Clicking and moving the cursor can give the coordinates of any point on the graph. See below for an example of using the "Cursor" tool:



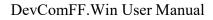
<u>Properties</u>: The "Properties" button - 🖆 - brings up the "Properties" dialog box which gives the user the ability to customize the graph as desired. Below is an example of one of the "Properties" tabs:

	-		Border Style	Outer Margin
Copy To ClipBoard Format	Meta File	•	○ None	5
File Column Separator	Teb	•	C Raised	5 - 5 -
Clip Annotations To Axes			Covered	5 .

<u>Copy To Clipboard</u>: The "Copy To Clipboard" button - 🖻 - copies the graph to the clipboard to allow the graph to be pasted into documents like a report.

Save: The "Save" button - 🖬 - saves the graph as a "*.bmp".

<u>Print</u>: The "Print" button - 🖨 - prints the graph.





Step	Action
	<u>Preview</u> : The "Preview" button - 🖸 - gives a print preview of the graph.
	Title: The title gives the name of the parameter being trended, the units that the parameter is being measured in, and the date(s) of the graph.
	(Parameter) (Units) - (Date)
	Pressure inH2O - (2011/03/14)
	Axis: The Y-axis is the units of the parameter. The X-axis is the time in HH:MM:SS format.
	Redraw: This section is disabled for View Current Trend.

5.12.3 View Past Trends

DevComFF.Win keeps a list of trends that have been done in the past. These trends are saved so that they can be viewed at a later date. To select a trend to be viewed perform the following steps:

Step	Action				
1	Ensure that the application is running, you do not have to be connected to a device to use View Past Trends .				
	Verser Uteh handset Bisk! One to be the breing DDLbary Coul Lorer Winder Heig One to be the breing DDLbary Coul Lorer Winder Heige One to be the breing DDLbary Coul Lorer Winder Heige One to be the breing DDLbary Coul Lorer Winder Heige One to be the breing DDLbary Coul Lorer Winder Heige One to be the breing DDLbary Coul Lorer Winder Heige One to be t				
2	$\frac{1}{10000000000000000000000000000000000$				
3	The Select Trend To Graph dialog will open.				



Step Action

N	Tag	Device	Date	Start Time	Т
01 02 03	F1106-1 F1106-1 R-0301-TEMP2	5945430008J0016034 5945430008J0016034 0011510644-EPM-TEMP-0x2268B810	2021-03-11 2021-03-15 2021-03-18	09:10:32 13:17:18 14:19:25	
	Device Tag: Device: File Name: Date:	Browse	Paramete Paramete Paramete Paramete	er2 er3	
	Start Time:		_		
	Notes:				

This dialog box is very similar to the "Download/View" dialog box.

Graph: Opens the trend as a graph

<u>Text</u>: Opens the trend as a text file.

<u>Delete</u>: Deletes the trend from the database.

<u>Close</u>: Closes the dialog box.

4 The **DevComFF.Win Trend** dialog opens up when "Graph" is selected.



The user can manipulate the graph as desired. "Tracking" is the term used to describe how the graph control follows the data,



Step Action

changing the axis in real time so that all of the data is shown. Below are the specific parts of the graph:

Tool Bar: There are multiple things that the user can do with the graph.

▶ || 🕂 �� ♀ ♀ □ ⋈ ฮ ங∎⊜े.

<u>Resume All Tracking</u>: The "Resume All" button - • is grayed out while tracking. If either axis is changed or the "Pause" button is pressed, this will be come green - • Pressing "Resume All Tracking" will resume the tracking on the graph.

Pause All Tracking: The "Pause" button - III - pauses the graph in its current state. Data is still added, however the current X-axis and Y-axis spans no longer change. Pressing the "Resume" button will continue tracking.

Scroll Axis: This is the default way to scroll both the X and Y-

axis. The "Scroll Axis" button - + - allows the user to scroll in both directions on the graph.

<u>Zoom Axis</u>: The "Zoom Axis" button - \Im - allows the user to shrink or enlarge the scale of either axis. By moving up or down, left or right, the span of each axis is changed.

Zoom Out All Axis: The "Zoom Out All Axis" button - Q - zooms out both the X-axis and Y-axis at the same time giving the user a broader look at the graph.

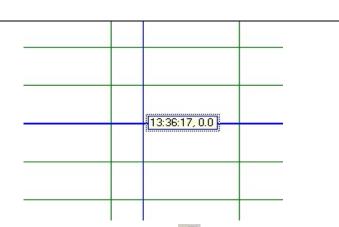
Zoom In All Axis: The "Zoom In All Axis" button - 🔍 - zooms in both the X-axis and Y-axis at the same time giving the user view over a smaller time period.

<u>Zoom Box</u>: The "Zoom Box" button - — - changes the cursor allowing the user to select a specific area of the graph to zoom in on for a more detailed look.

<u>Cursor</u>: The "Cursor" button - **I** - adds a cursor to the screen that gives the coordinates of the graph at a certain time. Clicking and moving the cursor can give the coordinates of any point on the graph. See below for an example of using the "Cursor" tool:



```
Step Action
```



<u>Properties</u>: The "Properties" button - Properties up the "Properties" dialog box which gives the user the ability to customize the graph as desired. Below is an example of one of the "Properties" tabs:

Seneral Title Background Print Hints File	VO Annotation Defaults
Copy To ClipBoard Format Meta File File Column Separator Tob Clip Annotations To Axes	Border Style Outer Margin None 5 Raised 5 Lowered 5
Update Frame Rate 60 🚽 🔽 Auto Frame Rate	

<u>Copy To Clipboard</u>: The "Copy To Clipboard" button - 🖹 - copies the graph to the clipboard to allow the graph to be pasted into documents like a report.

Save: The "Save" button - 🖬 - saves the graph as a "*.bmp".

<u>Print</u>: The "Print" button - 🗁 - prints the graph.

<u>Preview</u>: The "Preview" button - 🖸 - gives a print preview of the graph.

Title: The title gives the name of the parameter being trended, the units that the parameter is being measured in, and the date(s) of the graph.

(Parameter) (Units) - (Date) Pressure inH2O - (2011/03/14)

Axis: The Y-axis is the units of the parameter. The X-axis is the time in HH:MM:SS format.



Step	Action		
	Redraw: Up to four parameters can be By clicking the check box for a parame at the same time for easy comparison of	eter u can show one or four	
	Pressure inH2DGraph 2	🗖 Graph 3 🔲 Graph 4	
	Click "Redraw" and the parameters checked will be shown.		

5.12.4 Stop Current Trend

	Ensure that the application is running and is connected to a device.				
Service Options View Block Trending DD Librery	Cloud License Window Help		- 🗆 ×		
B 7 7 3 D B					
EIA Transducer Block	Item	Value Units			
Parameters Transducer Directory	Parameters Menus				
Collection Directory	Sensor Calibration Wizard				
Test 13					
- Cal Test 14					
Test 17					
Block Info					
Block Mode					
🖃 🦳 Dynamic Variables					
Primary Value					
Secondary Value					
Configuration/Calibration					
Block Mode					
Primary Value Parameters					
Calibration					
Display Setup					
Device Information					
E-C Sensor Information					
Sensor Range					
Diagnostics/Alerts Block Alarm					
Alarm Summary					
Update Event					
Query Device					
E TB Profile Parameters					
Block Mode Update Event					
Block Alarm					
Primary Value					
Primary Value Range					
Sensor Range					
Secondary Value TB Original Parameters					
Tertiary Value					
Alarm Summary					

2 Ensure that a trend is in progress. The "Trend Activity" light at the bottom of the screen is on if a trend is in progress. If not then the light will be off.





Step A	Action
	DevComFF ×
	Do you want to stop the current Trend in progress?
	Yes No
5 7	The "Trend Activity" light will now be off.
	O FF Activity O Trend Activity

5.13 DD Functions

5.13.1 Adding a DD

DevComFF.Win allows the user to add a DD to the library when necessary. Each DD must be in its appropriate destination for DevComFF.Win to find the DD. The format is:

"C:\ProComSol\FF\Library\xxxxx\yyyy\" where "xxxxx" represents the manufacturer ID and "yyyy" represents the device type ID. The user does not need to add the directory structure, DevComFF.Win does that automatically. To add a DD perform the following steps:

Step	Action
1	Ensure that the application is running, you do not have to be connected to a device to use Add DD .
	Victore: Life Instance Index
2	Select DD Library \rightarrow Add DD from the main window.
3	The Add DD dialog will open.



	Add DD ×
	Select .ffo DD File: C:\ack\0101.ffo Browse
	Select.cff DD File: C:\ack\010101.cff Browse
	For FF, a .ffo file and a .cff file are required.
	DD Information
	Manufacturer No: 001151 Device No: 0644
	Device Rev: 01 DD Rev: 01 Add DD Close
4	Click "Browse" and go to the location of the DD that is to be added.
-	-
	The "DD Information" section will be populated. Confirm that it is
	the correct DD. Below is an example of 0000c2/0021/0201.fm6:
	DD Information
	Manufacturer No: 001151
	Device No: 0644
	Device Rev: 01
	DD Rev: 01
5	If the DD information data is compated with Add DD to add the files
)	If the DD Information data is correct, click Add DD to add the files
	to the DD Library.

5.13.2 DD Library Updates

The DD Library is updated generally every quarter. Users are notified by email when this occurs. You can also check for updates by clicking **DD Library**-**Check for Updates**. DevComFF.Win will then contact the ProComSol DD Library Server and determine if a new DD Library is available. Note that you must have a valid Update Subscription.

To check for DD Library updates perform the following steps:

Step	Action
1	Ensure that the application is running, you do not have to be connected to a device to use Check for Updates . However you do need internet access.



Step	Action			
	V Browser - [EIA Transducer Block]	brary Cloud License Window Help		×
	8888808			
	EIA Transducer Block	Item	Value Units	
	Parameters	Parameters	The one	
	Transducer Directory	🛄 Menus		
	Collection Directory	Sensor Calibration Wizard		
	- Test 13			
	Test 17			
	Block Info			
	Block Mode			
	Dynamic Variables			
	Primary Value			
	-C Secondary Value			
	- Tertiary Value			
	E Configuration/Calibration			
	Block Mode			
	Primary Value Parameters Primary Value Range			
	Calibration			
	Display Setup			
	Device Information			
	E Sensor Information			
	Sensor Range			
	E Diagnostics/Alerts			
	Block Alarm			
	- 🛄 Alarm Summary			
	Update Event			
	Query Device TB Profile Parameters			
	Block Mode			
	Update Event			
	Block Alarm			
	Primary Value			
	Primary Value Range			
	Sensor Range			
	Secondary Value			
	🕀 🤐 TB Original Parameters			
	- Tertiary Value			
	Alarm Summary			
	Tag: FT106 - Device: EJA (Software Download) /LC1 - Devic	e ID: 5945430008/0016034 - DD: \594543\0008\0105.Ho	O FF Activity	O Trend Activity

- 2 Select **DD Library** \rightarrow **Check for Updates** from the main window.
- 3 The **DD Library Update** dialog box will open. What is displayed is based on the Current DD Library Version, Available DD Library Version, and status of the Update Subscription for this license.

DD Library Update	×.
Current Version:	2017-04
DD Library Up to	Date
	ОК

DD Library is current, no update required.



Step A	ction
--------	-------

DD Library	/ Update	
	Current Version: 2017-03	
	DD Library Update Subscription Expired	
	ОК	

Update Subscription expired for this license. Contact ProComSol to renew your subscription.

DD Libra	y Update	×
	Current Version: 2017-03	
	DD Library Update Available	
	2017-04 Install	
	ОК	

DD Library Update is available. Press "Install" to download the new library.

5 While the DD Library download and installation is occurring, a bar shows progress:



Step	Action
Diep	1 ionom

DD Library Upd	ate	×
	Downloading DD Library	
	OK	

6 The user is notified when the download and installation is complete:

Install	DevComFF			×	
	🛕 DD Li	ibrary Update	e complete		
			ОК		

5.14 Program Updates

The DevComFF.Win program is updated periodically to add new features or to fix reported issues. Users are notified by email when this occurs. You can also check for updates by clicking Help \rightarrow About DevComFF \rightarrow Check for Updates. DevComFF.Win will then contact the ProComSol Update Server and determine if a new program update is available. Note that you must have a valid Update Subscription.

To check for program updates perform the following steps:



Step	Action			
1	-	vice to use Check	ng, you do not have to f for Updates. Howeve	
	field internet dece	33.		
	Srowser - [EJA Transducer Block] Device Options View Blocks Trending DD Library Cloud	License Window Help		- 🗆 ×
	Call A Construct UNS Construct Construct UNS Construct UNS Construct UNS Cons	Item Prenue Prenue Sensor Colibration Wixerd	Value Units	
		10016034 - DD: \594543\0008\0105.ffe	O FF Activity	Trend Activity

- 2 Select Help \rightarrow About DevCom FF \rightarrow Check for Updates from the main window.
- 3 The **Update** dialog box will open. What is displayed is based on the Current Program Version, Available Program Version, and status of the Update Subscription for this license.

Updates	×
Current Version:	0.1
DevComFF Up to Dat	te
	ОК
	UK .

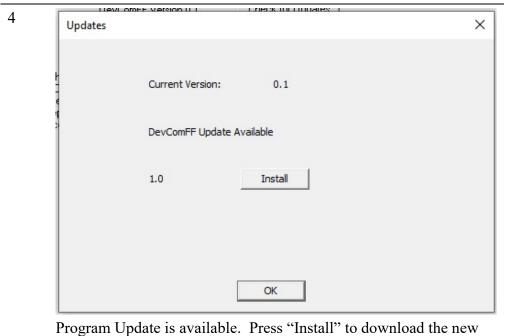
Program is current, no update required.



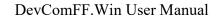
Ctar	Antina
Step	Action

	alex_1
Updates	×
Current Version: 0.1	
Update Subscription Expired	
ОК	

Update Subscription expired for this license. Contact ProComSol to renew your subscription.



- library.
- 5 While the Program download and installation is occurring, a bar shows progress:





Updates	×
Downloading DevComFF Update	
OK	
	n is complete
 The user is notified when the download and installation	n is complete
The user is notified when the download and installation	×
The user is notified when the download and installation Updates	×

5.15 Cloud Functions

5.15.1 Enabling Cloud Functions

Cloud functions are not yet available. Stay tuned!



Appendix A

Troubleshooting Guide

Problem: No FF devices in Live List

Hardware Check:

Verify the following: FF device is connected to power conditioner and is powered. mobiLink is connected to power conditioner and is powered.

<u>Problem:</u> Activation by Internet blocked by Firewall

Try the following:

- 1. Allow one time access to internet via your computer's Firewall settings.
- 2. Disable Firewall.
- 3. Use manual activation method.

<u>Problem:</u> Active Windows not shown in Windows drop down list

Try the following:

- 1. Select Window→Cascade or Window→Tile.
- 2. All Windows will now be shown



Appendix B

Contact Information

ProComSol, Ltd

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