

# Configuration Manual For SCADA *iFIX v4.0*



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## Chapter 1

## iFIX 4.0

## 1-1 OPC Server

👜 OPC TechsMod bus30CF	G.mdb - OPCTechsModbus	30CFG				
<u>File Edit View Go T</u> ool	s <u>H</u> elp					
🗋 🗅 😂 😼 🚰 🧇 🚽	) 🗈   👗 🗈 📾 🐔   🏝 🦫		3 60 60	8 AD		
🖃 🗄 Address Space 📃 🔺	Name 🛆	Simulate	Simple Tem	Parameteri	ze Location	Гуре 🔺
🖻 🔗 Port1	AI_01	No			Input Reg	jister (woj🚽
⊡… III Device1	AI_02	No			Input Reg	jister (woi
AI_01	AI_03	No			Input Reg	;ister (woi
	ATAI 04	No	1		Input Reg	ister (woi
AT AL 04			]			
A AL 05						▲
A AI_06	<u>N</u> ame: Device1					
AI_07	Address: 1					Simulate
AI_08	Device Type		- Timeouts (ms) —			
AI_09			Read:	1000	Write:	1000
	Custom		Timeouts to	2	S <u>u</u> spend	10000
			suspend:	3	period:	10000
A AO 03			Optimizations			
A AO_04			The numbers he	low indicat	e how much upu	hea
AO_05			data can be tran	sferred in o	ne message to m	erge
- AO_06	Parameters:		together address	ses that are o	close but not adja	icent. —
AO_07	Ideal	-	Bits:	160	Words:	5
▲ AO_08			- ,			
<b>▲</b>	•					
Ready			40 Object(s)		Mode: Demo	N //

Please create tags according to the Configuration Manual.

Later, click [ File ]  $\rightarrow$  [ Make Active ] to activate new created configuration file.

😳 OPCTechsModbus30CFG.mdb - OPCTechsl	sModbus30CFG	×
<u>File Edit View Go Tools H</u> elp		
<u>N</u> ew Ctrl+N Open Ctrl+O	□     □     □     □     Image: Simulate     Image: Simulate	
Save <u>A</u> s <u>C</u> onnection Properties	No Input Register (wo No Input Register (wo	" <b>—</b>
Export (WinCE, Embedded WinNT)	No Input Register (wo No Input Register (wo	n n <b>▼</b>
CSV Export  CSV Import		
XML Export XML Export Schema XML Import	vice1	æ
XML Validate <u>M</u> ake Active	Read:         1000         Write:         1000           Timeouts to suspend:         3         Suspend period:         10000	
<u>1</u> OPCTechsModbus30CFG.mdb <u>2</u> 11.mdb Exit	Optimizations The numbers below indicate how much unused data can be transferred in one message to merge together addresses that are close but not adjacent.	
A AO_09 A AO_10 ↓ Ideal	Bits: 160 Words: 5	-
Make current database active for using by OPC server	40 Object(s) Mode: Demo	N //

## **1-2** Connect OPC Client to OPC Server through iFIX 4.0

Start IFIX 4.0. Select [ SCU ] to set up OPC Client.

🤗 Proficy iFIX Startup	×		
Proficy iFIX			
Start Proficy iFIX with th Node Name: FIX SCU File: C.P Description: Conf	ese settings: rogram Files\GE Fanuc\Proficy iFIX\LOCAL\FIX.S( 💌 iguration File for Node FIX		
Sample System			
Start the Sample System Proficy iFIX will run capabilities.	n using a special set of files designed to demonstrate it's 		
Desktop Shortcut Create a desktop shortcut Create a shortcut on	your desktop using the settings listed above.		
Don't show this dialog box again; always start Proficy iFIX.			

## SCADA Configuration



Select "Enable" on [SCADA Support ], and then click the "?" nearby [ I/O Driver Name ].

SCADA Configuration	
SCADA Support Database Definition	/
Enable O Disable Database Name: DATA	BASE ?
1/0 Driver Definition	
I/O Driver Name:	?
Configured I/O Drivers	
	Add
	Configure
	Setup
	Delete
Partner SCADA SCADA Name:	
0K Cancel	Help

## Select "OPC Client v7.34a"; then click [ OK ].

SCADA Confi	guration				
	SCADA Support Database Definition				
Enable	le 🔿 Disable	Database Name:	DATABASE	?	
−I/0 Drive	er Definition				
I/O Driv	Drivers available	_		?	
Configu	DDE - 32-bit D OPC - OPC Cli P31 - Paradyn SIM - Simulati SM2 - Sim Dri	DE Driver Rev 6.0 ent v7.34a n-31 Driver V6.00b on Driver ver 2 v6.02c		id jure	
	0	K Can	cel	ete	
Partner	SCADA SCADA Na	ame:			
0K		Cancel		Help	

Click [ Add ] to add the I/O Driver you need.

SCADA Configuration	
SCADA Support Database Definition	
Enable O Disable Database Name: DATAE	BASE ?
1/0 Driver Definition	
I/O Driver Name: OPC - OPC Client v7.34a	?
Configured I/O Drivers	
	Add
	Configure
	Setup
	Delete
Partner SCADA SCADA Name:	
0K Cancel	Help

\_\_\_\_\_

Click [Configure...] to set up the DataItem connected to OPC Client.

CADA Configuration	
SCADA Support Database Definition	
• Enable • Disable Database Name: DA	TABASE ?
I/O Driver Definition	
I/O Driver Name: OPC - OPC Client v7.34a	?
Configured I/O Drivers	
OPC - OPC Client v7.34a	Add
	Configure
	Setup
	Delete
Partner SCADA	
SCADA Name:	
OK Cancel	Help

Select the OPC Server or Remote OPC Server you need; than click "Connect..." . Later, the Power Tool window will be opened.

Use Local OPC Client Driver	Remote machine name or TCP/IP address:
🔘 Use Remote OPC Client Driver	
To run the User Interface, you must first connect to an I/O Driver OLE Automation OPC Client Driver.	. Intwork
If you want to connect to the OPC Client Driver on this machine, select "Use Local OPC Client".	
If you want to connect to a OPC Client Driver on another machine, select "Use Remote OPC Client" and enter the machine name, or a TCP/IP address of the machine that has the driver that you want to connect to.	
You can use the tree browser to help select a remote machine name.	
✓ Show this dialog on startup	

Please select

🕂 🔁

to add the OPC Server.

2 C:\PROGRA~1\GEFANU~1\PROFIC~2\Untitled.opc - PowerTool	
<u>File Edit View Display Mode Options Help</u>	
	<b>#</b> ≜↓
Name: OPC Name: OPCDrv OLE for Process Control Client, Version 7.34a Number of Server: O Number of O Number of O Number of O	
+ 💷 + 🗊 井 🗊 🖌 🗡	
For Help, press F1 Configuration NUM	

C:\Program Files\GE Fanue File Edit View Display Mode	Proficy iFIX\Untitled.opc - PowerTool Options Help	
OPC	Select an OPC Server         1         OPCTechs.Melsec30DA.3         OPCTechs.MelsecNet30DA.3         OPCTechs.MelsecNet30DA.3         OPCTechs.MelsecNet30DA.3         OPCTechs.MelsecNet30DA.3         OPCTechs.Modbus30DA.3         OPCTechs.Modbus1CF30DA.3         OPCTechs.Modbus1CF30DA.3         OPCTechs.Omron30DA.3         OPCTechs.Omron30DA.3         OPCTechs.NonunNet30DA.3         OPCTechs.Panasonic30DA         OPCTechs.UP100_30DA.3         OPCTechs.UP100_30DA.3         OPCTechs.Vesta30DA         OPCTechs.Vesta400A	4a
+ <u></u> + <u></u>		$\times$
For Help, press F1		Configuration NUM //

Select the OPC Server you need, and then click "OK".

Select [ Enable ] to connect to OPC Client.

C:\PROGRA~1\GEFANU~1\PROFIC~2\Untitled.opc - PowerTool	1×1
<u>File E</u> dit <u>V</u> iew <u>D</u> isplay Mode <u>Options</u> <u>H</u> elp	
	₽↓
Server Name: Server1     Description: Modbus30DA   OPC Server Settings:   ProgID: OPC Techs.Modbus30DA.3   OPC Server Connection Setup   Server Location: Local   Machine   Name:   OPC Server Persist Settings:   Save on Disconnect   Client Settings:   Serven Window   FIX DBB I/O Address   Image:	
+ 🛥 🖌 + 🗊 井 🗊 🖌 🗙 🖌	
For Help, press F1 NUM	

C:\PROGRA~1\GEFANU~1\	PROFIC2\Untitled.opc - PowerTool	<u>_                                    </u>
<u>File E</u> dit <u>V</u> iew <u>D</u> isplay Mode	Options <u>H</u> elp	
		<b>M</b> ≜↓
COPC	Server Name:       Server1       Enable         Description:       Modbus30DA         OPC Server Settings:       ProgID:       OPC Techs.Modbus30DA.3         OPC Server Connection Setup       Server Location:       Local       Machine Name:         OPC Server Persist Settings:       Save on Disconnect       Client Settings:       Server Location:       Image: Server Client Settings:         Image:       Image: Server Client Settings:       Image: Server Client Settings:       Image: Server Client Settings:         Image:       Image: Server Client Settings:       Image: Server Client Settings:       Image: Server Server Server Server Server Server Settings:         Image:       Image: Server Server Server Server Settings:       Image: Server Server Server Server Server Settings:         Image:       Image: Server Se	
• <b></b>		
For Help, press F1	Configuration NUM	

Select [ Enable ] to connect to the group.

C:\PROGRA~1\GEFANU~1	PROFIC~2\Untitled.opc - PowerTool	- D ×
<u>File Edit V</u> iew <u>D</u> isplay Mode	Options Help	
		₩å
OPC	Group Name:       Group1         Description:       Imable         OPC Group Communications Settings:       Imable         I/O Type:       Asynchronous       Imable         Data Source:       Cache       % Dead band:       Imable         Asynchronous Communications Settings       Poll Rate:       Imable       Imable         Poll Rate:       Imable       Imable       Imable       Imable         Async Timeout:       Imable       Imable       Imable       Imable	
<b>+</b> ≤ <b>■</b> + <b>■</b>	🖌 🛉 🗗 🚺 🚺 🖌	
For Help, press F1	Configuration NUM	

## Click to add a DataItem.

CAPROGRA~1/GEFANU~1/PROFIC~2/Untitled.onc - PowerTool	
File Edit View Display Mode Options Help	
	<b>₩</b> 2↓
Group Name: Group1 Group Name: Group1 Description: OPC Group Communications Settings: I/O Type: A synchronous Vupdate Rate: 01 Data Source: Cache V Deadband: 0 A synchronous Communications Settings Poll Rate: 05:00 A sync Timeout: 10000	
→ 🚰 + 🗒 + 🗊 🕇 + 🗊 🖌 🗡	
For Help, press F1 Configuration NUM	

Define the name of the Item and select "Enable". Click [ Browse Server ] to display all the tags.

C:\PROGR&~1\GEF&NU~1\PROFIC~2\Untitled.opc - PowerTool					
<u>File Edit Yi</u> ew <u>D</u> isplay Mode <u>Options</u> <u>H</u> elp					
	# ≜↓				
Item Name: AI_01     Group1     OPC Item Name:     OPC Item Settings:     Item ID:     Access Path:     No Access Path     Item Start:     Item Start:     Item Start:     Item Start:     Item Start:     Item Length:     Array     Requested Datatype:     Server     Browse Server     Client Settings:     Disable Outputs   Latch Data   Enable Block Writes					
• 📲 🕂 📲 🖊 📲 🗡					
For Help, press F1 Configuration NUM					

Select the Item to be connected with; then click [ OK ].

Browse OPC Server	×
_ Item IDs and Access Paths:	
Item IDs:	Access Paths:
<ul> <li>□- OPCTechs.Modbus30DA.3</li> <li>□- Port1</li> <li>□- BaudRate</li> <li>□- Device1</li> <li>□- Device1</li> <li>□- AI_02</li> <li>□- AI_03</li> <li>□- AI_04</li> <li>□- AI_05</li> <li>□- AI_06</li> <li>□- AI_06</li> <li>□- AI_07</li> <li>□- AI_08</li> <li>□- AI_09</li> <li>□- AI_10</li> <li>□- AO_01</li> <li>□- AO_03</li> <li>□- AO_04</li> <li>□- AO_05</li> </ul>	• Port1.Device1.AI_01
ItemID:	Access Path:
Port1.Device1.AI_01	
- iFIX Process Database Tag	
Enable iFix PDB Tag Auto-creation	Tag Desc Prefix: AG-
iFIX Database Tag Type: 🛛 AI - Analog Input 💌	Tag Name Prefix:
<u>O</u> K <u>C</u> ance	l <u>H</u> elp

C:\PROGRA~1\GEFANU~1\PROFIC~2\Untitled.opc - PowerTool
<u>File Edit View Display Mode Options H</u> elp
Server1         Group1         Item Name:         AI_01         Enable         OPC Item Settings:         Item ID:         Porti Device1 AI_01         Access Path:         No Access Path         Item Start:         Item Start:         Item Start:         Disable Outputs         Disable Outputs         Latch Data         Access Time:         Disable Block Writes
+ 📲 + 🛄 + 🗊 👫 👫 🗡
For Help, press F1 Configuration NUM

Item ID will be defined automatically.

#### Save the settings.

C:\Program Files\GE Fanue\Proficy iFIX\default.OPC - PowerTool				
<u>File Edit View D</u> isplay Mode Op	ntions <u>H</u> elp			
<u>N</u> ew Open		<b>₩</b> ≜↓		
<u>S</u> ave Save <u>A</u> s	tem Name: AI_01 Enable			
<u>1</u> default.OPC	Description:			
2 CAPROGRA~1\\Untitled.opc Exit	PC Item Settings:	-		
		_		
	Access Path: No Access Path			
	Item Start: 0 Item Length: 0 Array			
	Requested Datatype: Server  Browse Server.			
	Client Settings:			
	Disable Outputs			
	Latch Data Access Time: Disabled			
	🥅 Enable Block Writes			
		<u> </u>		
• <u></u> •	_ +Ø 14 14 X			
Save the active document	Configuration			

Select the location where the setting will be stored.

C:\Program Files\GE Fanuc\Proficy iFIX\default.OPC - PowerTool	. <u> </u>
□-% OPC Enable Group Name: Group1 Enable ✓	
□ · · · · · · · · · · · · · · · · · · ·	
ALM     Image: NLS     Image: System       APP     Image: PDB     Image: XLSTART       Image: Config Files Backup     Image: PIC     Image: System	
Image: HTR     Image: RCC       Image: HTRDATA     Image: RCM       Image: LOCAL     Image: Resources	
檔案名稱(N): OPC <u>Save</u>	
存檔類型(I): Config Files (*.OPC)	
+ 💷 + 🗓 + 🗊 🏄 🗡 📈	
For Help, press F1 Configuration CAP NUM	//

## Click $\ulcorner$ Options $\lrcorner \rightarrow \ulcorner$ Setup $\lrcorner$

😤 C:\Program Files\GE Fanuc\Proficy iFIX\OPC.OPC - PowerTool
<u>File Edit View D</u> isplay Mode Options Help
Beset Counters     Image: Counters       Image: Counters     Image: Counters       Setup
□     □ </th
OPC Group Communications Settings:
I/O Type: Asynchronous Update Rate: 01
Data Source: Cache 💌 % Deadband: 0
Asynchronous Communications Settings Poll Rate: 05:00 Finable Asynchronous Watchdog Async Timeout: 10000
+ ∰ + ∭ + ∭ + ∭ + ∭ +
Driver Setup Configuration CAP NUM

C:\Program Files\GE Fanue\Proficy iFIX\OPC.opc - PowerTool File Edit View Display Mode Options Help	
PowerTool         Image: Serveri and Serveri	X V 
+ 🛥 + 🗓 + 🗂 🏞 🗂 🚜	×
For Help, press F1 Com	figuration NUM

Define the name and location for Config File

Close Power Tool and SCADA Configuration.

#### Start iFix 4.0

🤗 Proficy iFIX Star	tap	×		
Proficy iFIX				
Start Pro	oficy iFIX with these settings:			
No	de Name: FIX			
SC SC	U File: C.\Program Files\GE Fanue\Proficy iFIX\LOCAL\FIX.S( -			
Des	scription: Configuration File for Node FIX			
– Sample System –				
Start the	Sample System			
Pro cap	oficy iFIX will run using a special set of files designed to demonstrate it's pabilities.			
-SCU				
Run the	System Configuration Utility			
All	lows you to configure the iFIX system.			
Desktop Shortcut —				
Create a	desktop shortcut			
Create a shortcut on your desktop using the settings listed above.				
Don't show this dialog box again; always start Proficy iFIX.				

Click to create tags and enable the connection with OPC Client.





🔒 Proficy il	📲 Proficy iFIX Database Manager - [FIX : 0 rows]					×			
🖪 Database Edit Yiew Blocks Drivers Icols Help 📃 🗗 🤰						×			
	Tag Name	Туре	Description	Scan Time	I/O Dev	I/O Addr		Curr Value 🛛 🕹	-
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
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20									
21									
22									
23									
24									
25									
26									
27									
28									•
								<b>&gt;</b>	
For Help, press	F1				OF	F EDIT default	default	default	//.

## Select the data type.

Proficy iF	<b>IX Database Manage</b> <u>E</u> dit <u>V</u> iew <u>B</u> locks I	r - <b>[FIX</b> D <u>r</u> ivers	( : <b>0 rows]</b> <u>T</u> ools <u>H</u> elp					_     ×
	🏭 🛃 🐰 🖻 🛱	4	1111 • • • • • • •					
	Tag Name	Туре	Description	Scan Time	I/O Dev		I/O Addr	Curr Value 🔎
1								
2								
3								
4								
5								
6							1	
- /			Select a block type:			<u>? ×</u>		
8								
9			FIX	é se a la se	61	-		
11				Analog	Lanut			
10				golanA Analog	Outout			
12				Analog	Register			
14			BB	On-Off	Control			
15			👩 BL	Boolea	n			
16				Calcula	tion			
17				Digital	Alarm			
18				Device	Control			
19			🗊 DI	Digital	Input			
20			DO	Digital (	Dutput	<b>T</b>		
21					1i-t			
22			<u>0k</u>	<u>C</u> ancel		Help		
23								
24								
25								
26								
27								
28								•
•								
For Help, press	F1				OF	EDIT defau	ult default	default

Define the Tag Name; select "OPC Client" for Driver and type in its I/O Address. (Note1)

nalog Input - [AI_01]*								
Basic Alarms A	Advanced							
Tag Name : A Description : Previous :	AI_01 AI_01							
Addressing Driver : I/O Address : Signal Conditioning:	OPC OPC Client v7.34a  Server;Group;ItemID[;AccessPath] None Hardware Server Options:	O Configuration						
Scan Settings Process by Exc Scan Time : 1 Phase At :	xeption     Engineering Units       Low Limit :     0.00       High Limit :     100.00       Units :							
<u>Save</u> <u>Cancel</u> <u>H</u> elp								

Note 1:I/O Address format is Server;Group;ItemID[;AccessPath]

😤 C:\Program Files\GE Fanue\Proficy j71X\OPC_pc - PowerToo			
<u>File Edit View D</u> isplay Mode <u>Options</u> <u>H</u> elp			
	**		Ź↓
Item Name:       AI_01         Group1       Description:         OPC Item Settings:       Item ID:         Item ID:       Fort1 Device1 AI_         Access Path:       No Access Path         Item Start:       Item Start:         Client Settings:       Disable Outputs         Disable Outputs       Item Description         Enable Block Writes       Item Start	01 Item Le	Enable Ingth: Array Browse Server Access Time: Disabled	
For Help, press F1		Configuration	

## E.g. the I/O Address of AI\_01should be as follows:

C:\Program Files\GE Fanue\Proficy iFIX\OPC.opc - PowerTool
<u>File Edit View Display Mode Options Help</u>
Item Name:       AI_01       Enable         Group1       Escription:       Description:         OPC Item Settings:       Item ID:       Port1.Device1.AI_01         Access Path:       No Access Path         Item Start:       Item Length:       Array         Requested Datatype:       Server       Browse Server         Client Settings:       Disable Outputs       Latch Data         Access Time:       Disabled       Enable Block Writes
•📲 +📆 •🗂 🏞 🖌 📉
For Help, press F1 Configuration NUM

#### Server1;Group1;Port1.Device1.AI\_01;No Access Path

## Click [ Save ].

Analog Input - [AI_	_01]?	×
Basic Alarms	Advanced	
Tag Name :      Description :      Previous :	AI_01           Next :	
Addressing Driver : I/O Address : Signal Conditioning:	OPC     OPC Client v7.34a     I/O Configuration       Server1;Group1;Port1.Device1.AI_01;No Access Path        None     Hardware Options:     Server	
Scan Settings Process by Ex Scan Time : 1 Phase At :	Engineering Units       Low Limit :     0.00       High Limit :     100.00       Units :     1	
	Save Cancel Help	

## Click [ Database ] $\rightarrow$ [ Save ]; then close Database Manager.

🔒 Proficy il	FIX Database Manage	er - [FD	K : 1 rows]				
🖪 Database	<u>E</u> dit <u>V</u> iew <u>B</u> locks	Drivers	<u>T</u> ools <u>H</u> elp				_ & ×
	<b>116</b> / 116	2 #4	<u>116 • • • • • • • • • • • • • • • • • • </u>				
	Tag Name	Туре	Description	Scan Time	I/O Dev	I/O Addr	Curr Value 📥
1	AI_01	Al		1	OPC	Server1;Group1;Port1.Device1.Al_01;No	A????
2							
3							
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5							
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7							
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22							
23							
1 24	I	I	1	I	1		
For Help, press	: F1				OFF EDI	IT default default d	lefault //

Draw tags and make connections.

📫 Proficy iFIX WorkSpace (Con	ligure)			
<u>File Edit WorkSpace</u> Object <u>V</u> ie	w <u>I</u> nsert Form	a <u>t W</u> indow <u>H</u> elp		
ਫ਼₽₽₽₽₽₽	281	20 🐸 👪 👸 🚳	\ \   5 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9, 92 92 92 9
FIX Application Support Application Validato Cross Reference Toc Database Documents Figure Dynamo Sets Figure FIX Desktop FIX Recipes	Contraction of the second seco	.grf		Ioolbar     Ioolbar     Ibox     Ibox     Ibox     Ibox
Globals     Help & Information     Historical Configura     Historical Configura     Historical Configura     Historical Control     Historical Control     Ficture Support Files     Fictures     ChartGroupDen     LocalAsBackup     LocalAsPrimary     NetworkStatusD:     NetworkStatusRe     Mitted1		#####		
Toolbar Files	•			•
For Help, press F1		Configure	PCM Disabled	NUM //

## Set up the property of Text1.

		<u>? ×</u>
e <u>T</u> oolTip 🛛 🕅	Enable Highlight	Enable Select
Movement Positi Scale	on Bill Difference of the second sec	Fill       Fill Percentage       Visibility       Yisibility       Yisibility
		Additional Animations
ione)	<u>H</u> elj	Co <u>n</u> figure
	IoolTip [ Movement - Positi Scale Rotat one)	IoolTip       Enable Highlight         Movement       Image: Scale         Scale       Image: Scale         Rotate       Image: Scale         Image: Scale       Image: Scale         Image: S

Text1 Animations
General Visibility Size Misc Position Color Style Gradient Text Behavior
Properties Property Name Current Setting Animate Property Description:
Caption #### The text string which is currently
FontName Arial
FontSize 12
FontStyle 0
Dynamic Setting for the Caption Property
Data Source: 📃 📰 🛄
Data Conversion: Format
Data Entry
Type: None 🔽 Confirm
Formatting
Raw Format Type: Alpha-Numeric
Justify: Left V Lines: 1 Chars/Line: 10
OK Cancel Help

## Select the Tag to be connected and then click [ OK ].

Expression Builder	? ×
┌ Data Source Browser	
🚜 FIX Database 🔲 Pictures 💽 Globals 🖅 Data Servers 🕑 Alarm Counters	
Node Names Tag Names Field Names	- 1
FIX       ALOI       FAUTO         F CV       F DBAND         F DBAND       F EHI         F ENAB       F ESIGACK         F ESIGTAP       F ESIGTAP         F ESIGTAP       F ESIGTAP         F DALM       F ESIGTAP         F ESIGTAP       F ESIGTAP         F E E E E E E E E E E E E E E E E E E E	
Fix32.FIX.AI_01.F_CV         Tolerance:         0.001000           Deadband:         0.000000	
Refresh Rate: 0.100000	<u> </u>
Check Syntax OK Cancel Help Mathematical Functions	>>

## Normal connecting status

File WorkSpace Window Help	
😭 untitled 1 . grf	
II 2	
	Ш
	Ш
	Ш
	Ш
257.00	
237.00	
For Help, press F1	1