# Technical bulletin 199 XSeries<sup>G4</sup> liquid application Upgrade phase 0 to phase 1 procedure

	Totalflow products	Doc name:	Technical bulletin 199
File name:	2105377TBAA_TB199.docx	Status of document:	Released
Issued by department:	Totalflow customer service	Distribution:	External public
Date:	4/28/2015	Creator name:	USDADUA
Revision:	AA	Contact:	+1 918.338.4880 or 800.442.3097
Page:	15	Language:	EN

Proprietary information



### 1. Introduction

This technical bulletin describes the procedure for upgrading the phase 0 API liquid tube application (selectable units) to phase 1 API liquid tube application (selectable units).

## 2. Description

Totalflow has made significant changes to their liquid tube application with the release of the following flashes, referred to as phase 1 liquid tube application. The Liquid tube application that is in flash part numbers prior to the listed part numbers below is referred to as phase 0. This procedure applies only to customers using phase 0 liquid tube application.

- Part number: 2102861-062 (XFC<sup>G4</sup> (US) NoWeb)
- Part number: 2103132-062 (XRC<sup>G4</sup> (US) NoWeb)
- Part number: 2104158-033 (XFC<sup>G4</sup> EX (SU) NoWeb)
- Part number: 2104159-033 (XFC<sup>G4</sup> EX (US) NoWeb)
- Part number: 2104339-025 (XFC<sup>G4</sup> (SU) NoWeb)
- Part number: 2104340-025 (XRC<sup>G4</sup> (SU) NoWeb)
- Part number: 2104497-020 (μFLO<sup>G4</sup> (US) NoWeb)
- Part number: 2104498-020 (μFLO<sup>G4</sup> (SU) NoWeb)
- Part number: 2105151-002 XFC<sup>G4</sup> (US)
- Part number: 2105152-002 XFC<sup>G4</sup> (SU)
- Part number: 2105153-002 XRC<sup>G4</sup> (US)
- Part number: 2105154-002 XRC<sup>G4</sup> (SU)

These changes make it impossible for users of phase 0 liquid tube application to simply upgrade to flashes after the phase 1 liquid release and retain configuration and measurement data for their phase 0 liquid tube runs, manual steps have to be taken to recover configuration and backup measurement data for a smooth upgrade from phase 0 to phase 1.

### 3. Is your product affected?

The phase 0 API Liquid tube application used in any flash versions prior to the versions listed in section 2 is affected. Customers using this phase 0 liquid application attempting to upgrade to phase 1 must follow the procedures described in this bulletin.

#### 4. Resolution

The procedure included in this bulletin describes the major steps to successfully upgrade phase 0 API liquid applications to phase 1 API liquid applications. The steps include: saving existing application configuration, collecting and backing up data, removal of phase 0 API liquid application(s), flash upgrade, instantiation and configuration of the phase 1 API liquid applications. The steps must be followed in the order presented to be completed successfully.

#### 4.1. Procedure

1. In PCCU entry mode, save screen shots of the following highlighted tabs (one screenshot for each tab) of all phase 0 liquid tube application(s). See Figure 1 to Figure 5.

**Note**: This step has been included to illustrate a way to save the existing configuration. If you have documented the configuration already, skip to the next step. If you need an example of how to perform a screen capture using PCCU, see procedure in section 4.2.

Ag PCCU32 - [Entry]									
🔳 Operate View Window Help									
10 🔤 🚾 🕺 Vii 🔤 🕸 10 🖅 🖃 🛄 🎎 🖉									
TF XFC     General Use of Control View									
Communications									
Totalflow - TCP		<b>D</b> = a sisting							
Totalflow - USB		Description	value						
MMI Serial - COM0	79.5.0	Device/APP ID	SUAPILIQ-1						
TF Remote - COM1	79.5.2	Tube Description	TotalFlow						
Spare - COM2	79.0.0	Contract Hour	00						
. LevelMaster	79.1.6	Vol Calc Period 1 Second							
. I/O Interface	79.2.0	Log Period	60 minutes						
Generation AGA3-1	79.7.4	Flow Period (Seconds)	1						
SUCOR-1	79.0.9	Calculation Type	API Liquid						
ia SUAPILIO-1	79.30.0	K Factor Type	Quantity/Pulse						
Digital Outputs	79.35.0	Heating Value Method	Volume Based						
No Flow	79.38.0	Ticket Number	0						
Adv Setup	79.50.0	Meter Body Serial Number							
···· Multipoint Cal.	79.50.1	Meter Internals Serial Number							
Holding Registers	79.2.12	Hold Time Out (Seconds)	3600						

Figure 1: API Liquid application Setup General tab

h, PCCU32 - [Entry]								
Dperate View Window Help								
🚰 📅 💽 Var 🔤 🧇 🎬 🖃 🗰 🎯								
TF XFC     Digital Output 1 Digital Output 2								
Totalflow - TCP			1					
Totalflow - USB		Description	Value					
MMI Serial - COM0	79.4.5	Digital Output	0.0.0					
TF Remote - COM1	79.3.69	Volume Setpoint	0.000	bbl				
Spare - COM2	79.1.10	Trip on Volume	No					
	79.1.10	Trip on Indicated Vol/Period Mass Low	No					
	79 1 10	Trip on Indicated Vol/Period Mass High	No					
⊕ AGA3-1	79.1.10	Trip on PF Low	No					
SUCOR-1	79.1.10	Trip on PF High	No					
SUAPILIQ-1	79.1.10	Trip on TF Low	No					
	79.1.10	Trip on TF High	No					
No Flow	79.1.10	Trip on Gross FR Low	No					
- Adv Setup	79.1.10	Trip on Gross FR High	No					

Figure 2: API Liquid application Digital Outputs screen

Printed copies are uncontrolled copies. This version is current as of 4/28/2015. For latest version check www.abb.com/totalflow

ዜ PCCU32 - [Entry]								
🔳 Operate View Window Help								
1 🔤 🖫 💽 🕅	Archi	" 🔄 🛄 setup   🧇						
Totalflow - TCP								
Totalflow - USB Description								
MMI Serial - COM0	79.4.4	Digital Input	0.0.0					
TF Remote - COM1	79.0.49	DI Action	Disabled					
	79.0.50	Flow State	Flow					
		L	Å					
- Flow Measurement								
SUAPILIQ-1								
Setup								
Digital Outputs								
No Flow								
Adv Setup								





Figure 4: API Liquid application Adv Setup Screen

E PCCU32 - [Entry]								
II Operate View Window Help								
10 🛅 🛅 💽 🕅	Archiv	* 📑 🏧 🧟 🖉						
E TF XFC	etun							
Communications								
Totalflow - TCP		Description	Value					
MMI Serial COM0	79.31.0	Dynamic K	o					
TE Remote - COMI	73.31.0	bynamie k	v					
Spare - COM2	79.30.4	Multi point Calibration Enable	No					
XMV Interface	79.30.2	Calibration Points	0					
LevelMaster	79.30.0	K Factor Type	Quantity/Pulse					
	79.32.0	Point 1 Frequency	0					
E- Flow Measurement	79.33.0	Point 1 K-Factor	0					
⊕ AGA3-1			-					
SUCOR-1	79.32.1	Point 2 Frequency	0					
⊡- SUAPILIQ-I	79.33.1	Point 2 K-Factor	0					
Digital Outputs	79.32.2	Point 3 Frequency	0					
No Flow	79.33.2	Point 3 K-Factor	0					
Ache Satup	79.32.3	Point 4 Frequency	0					
Display	79.33.3	Point 4 K-Factor	0					
Holding Registers	79.32.4	Point 5 Frequency	0					

Figure 5: API Liquid application Multipoint Cal. Setup screen

- 2. Use PCCU to collect "All Data" for ALL tube application(s) to a laptop file, select the output options (typically Archive File, Spreadsheets and/or CFX files) that are appropriate according to the user's operating procedure.
- 3. If WinCCU Archive File and/or Long Term Database are used to store long term data for tube applications, user needs to import the collected laptop file to WinCCU and output it to Archive File and/or Long Term Database.
- 4. If PCCU/WinCCU Archive File(s) are used to store long term data for tube applications, user needs to back up the Archive File(s) for all phase 0 liquid tube application(s).
  - a. Back up Archive File(s) rename the archive file(s) for phase 0 liquid tube applications (for example, rename SUAPILIQ.-1\_ to SUAPILIQ.-1\_Phase0).

**Note**: the PCCU/WinCCU Long Term Database (Access or SQL) will retain the liquid phase 0 data since a liquid phase 1 archive file cannot be updated to the long term database. Updating of the latest version of liquid data to the long term database is planned for liquid phase 2.

- 5. If non-Totalflow software tool(s) are used to store long term data for tube applications, follow the procedure of these tools to merge in the collected laptop file and backup the long term data for all phase 0 liquid tube application(s).
- 6. In PCCU entry mode, go to the "Applications" tab under the top tree node (Figure 6), delete all phase 0 liquid tube application(s) and then "Send".

PCCU32 - [Entry]								x		
🔳 Operate View Window Help							_	ъ×		
1 🔄 🔁 Vii 🐨 🕸 1 💭 1 🗰 📣										
TF XFC	S	tation Setup	plications App Licensing Selectable Units Se	etup   Battery I	nformation	n Resources Syster	n Log Security Log Registr	y		
Totalflow - TCP								_		
Totalflow - USB		App Number	Туре	Revision	Station	Directory	Restart	^		
MMI Serial - COM0		2	Communications	2101340-004		Dir = \Comm-2				
TF Remote - COM1		3	Communications	2101340-004		Dir = \Comm-3		_		
Spare - COM2		4	Communications	2101341-004		Dir = \Comm-4				
· XMV Interface		5	Communications	2101303-004		Dir = \Comm-5				
e I/O Interface		7	I/O Interface XSeries	2103134-005		Dir = \IOS				
- Flow Measurement		8	Display XSeries	2103137-002		Dir = \Display				
⊡- AGA3-1		9	Holding Registers	2101312-001		Dir = \Holding				
- Analysis		10	Operations	2101320-003		Dir = \Operations				
Digital Outputs		11	AGA-3 Measurement	2101306-004		Dir = \AGA3-1				
No Flow		12	Coriolis SU	2103980-004		Dir = \SUCOR-1				
Speed of Sound		41	XMV Interface	2101314-007		Dir = \XMV-1				
■ SUCOR-1		51	LevelMaster	2101317-003		Dir = \\Level-1		=		
SUAPILIQ-1     Jisplay		72	Oil Custody Transfer Measurement	2103140-002		Dir = \OilXfer-1				
- Holding Registers		78	TFWeb Server	2101999-001						
Operations	<	79	API Liquid SU 🗸	2104609-002		Dir = \Facility-1				
		80	Alarm System	2101310-004		Dir = \Alarms-2				
Alarm System-1		94	Alarm System	2101310-004		Dir = \Alarms\				
Marm System-2		101	PID Controller	2103289-003		Dir = \PID-1				
H- Valve Control		102	Valve Control	2101311-006		Dir = \Valve-1				
Plunger		121	Plunger Control	2103141-009		Dir = \Plunger-1				
Pulse Accumulator		141	Pulse Accumulator	2103138-002		Dir = \Pulse-1				
H- Shutdown		161	Shutdown System	2103142-005		Dir = \Shutdown-1				
Duct	Re-read Add App Delete App Send Close Help									
Ready			#Polls: 4	9 #Errors:	0 C	onnected to TF XFC	Login: user	. d		

Figure 6: System Applications Tab Screen

7. In PCCU entry mode, go to "Station Setup" tab under the top tree node (Figure 7), on the "Update Cold Start Configuration" field choose "Delete and Re-Create TfCold" and then "Send".

Entry]					X					
Operate View Window Help				-	Ξ×					
1 🔁 🔁 VA 🖼 🚳 V 🏦 🖃 🌒										
TF XFC										
Communications     Station Security Log Registry										
- Totalflow - TCP										
Totalflow - USB			Description	Value	<b>^</b>					
TE Demente COMU		0.0.4	Station ID							
Spare - COM2		0.0.5	Location	2103393-005						
MV Interface		0.9.0	Date/Time	04/24/2015 12:15:45						
. LevelMaster		0.9.0	Set Device with PCCU Date/Time	No						
			Security							
- Flow Measurement		0.00	Council Could Loweld							
AGA3-1		0.0.6	Security Code Level 1							
Setup		0.0.7	Security Code Level 2							
Analysis		0.7.3	Security Switch Status	On						
Digital Outputs			Sleep Mode							
Adv Setup		0.10.2	Remote Comm Cutoff Voltage	11.90						
ter SUCOR-1		0.10.2	Sloop Mode Entry Voltage	10.00	=					
. SUAPILIQ-1		0.10.5	sleep mode Entry Voltage	10.30						
🚊 - Display		0.8.8	Sleep Mode Hold-off Time (sec)	120						
Holding Registers		0.9.11	Wake Up Time	03:00:00						
Operations     Oil Transfer		0.7.14	Wake Up Time Mode	Time from Start of Sleep						
TEWeb Server			Lithium Battery Status							
Alarm System-1		0.7.10	Lithium Battery Status	ОК						
Alarm System-2			Backup							
PID Control		0.21	Update Cold Start Configuration	Delete and Re-Create TfCold						
Valve Control			Sunda							
Hunger     Pulse Accumulator			System into							
En Shutdown		0.9.5	Last System Boot Date/Time	04/19/15 16:26:43						
E Shataonn			LCD Display Date/Time Format							
		0.7.15	Date/Time Format	mmddyy hhmmss						
0.7.12 Dista Consister Clieft /										
		Re-read	Monitor Pri	nt Screen Save Send Close Help XHelp a	<b>e</b> .					
Ready			#Polls:	22 #Errors: 0 Connected to TF XFC Login: user						

Figure 7: System Station Setup Screen

8. Use PCCU "32 Bit X-Series Loader" (Figure 8) to upgrade flash to one that has the phase 1 liquid tube applications and cold start the device.

**Note**: Before upgrading, obtain the appropriate flash for your system. See section 2 to verify the flash part numbers which support the Phase 1 API liquid (SU) application.

₽. PCCU32		
Operate View Window Package Help		_ <i>8</i> ×
TI Estra Collect 💽 🕅 🔤 Loader	🍘 🏥 🖃 🗰 😪	
-Multiple File Package Select		
C:\TWI\TWI Flash packages\XFC	US units_package\XFC.US_units_package\2105151-001EX\Package\2105151-001EX.xfc32	▼
© FC	Windows CE	
○ Undate		━ ━ …
	Flash	
Shutdown Flash	C:\PCCU7\PackageRaw\2105151-001EX.xfc32\Totalflow.exe	•
Reset Device	ISSCRAF Runtime	
Download Flash		
☐ Download ISaGRAF Runtime ▼ Delete tfData Directoru		
Delete tfCold Directory	Configuration Files	
Download Configuration		<b></b>
Connection Network 🗸	▼ Start Stop Close	e Help
Ready	Not Connected to Device	Login: user
Ready	Not Connected to Device	Login: user

Figure 8: 32 Bit XSeries Loader screen

- 9. When the device is re-started after flash upgrade, in PCCU entry mode, go to the "Applications" tab under the top tree node, "Add" the same number of liquid tube applications as before the upgrade and then "Send".
- 10. In PCCU entry mode, go to each and every instantiated liquid tube application, on each and every tab that was saved during step 1, change configurations according to the saved screen shots. For configurations that were not available in phase 0, set them appropriately according to users' needs.

#### 4.2. Using PCCU to save screens (optional)

The following steps illustrate how to use PCCU to save screens in order to save your configuration before flash upgrade.

- 1. In PCCU Entry mode, select Station Setup (Figure 9)
- 2. Select Screen Save at the bottom of the screen.

隆. PCCU32 - [Entry]		and the second			
Operate View Window Hel	p		- 8 ×		
fi 🖾 🖪 🐨 😝 Ma	<b>a</b> 1 <b>3</b>	📅 🖼 🛞 🇯 🚚 🛄	1 😤 2 🔗		
TOTALFLOW			n taniça Swup		
	Re	sources System Log	Security Log		
-Totalflow - TCP	Station S	Applications App Lic	ensing Selectable Units Setup Bat		
- Totalflow - USB					
- MMI Serial - COM0 - TF Remote - COM1 - Spare - COM2 - Bluetooth - XMV Interface		Description	Value		
	0.0.4	Station ID	TOTALFLOW		
	0.0.5	Location	2103393-005		
	0.9.0	Date/Time	04/23/2015 07:55:43		
	0.9.0	Set Device with PCCU Date/Time	No		
		Security			
Flow Measurement	0.0.6	Security Code Level 1			
AGA3-1	0.0.7	Security Code Level 2			
E-SUAPILIQ-1	0.7.3	Security Switch Status	Off		
Display		Sleep Mode			
- Holding Registers	0.10.2	Remote Comm Cutoff Voltage	11.90		
Operations	0.10.3	Sleep Mode Entry Voltage	10.90		
Trend System	0.8.8	Sleep Mode Hold-off Time (sec)	120		
Valve Control	0.9.11	Wake Up Time	03:00:00		
	0.7.14	Wake Up Time Mode	Time from Start of Sleep		
		Lithium Battery Status			
	0.7.10	Lithium Battery Status	ок		
		Low Charger Alarm Enable			
		· · · · · · · · · · · · · · · · · · ·			
	Re-read	Monitor Print Sci	reen Save Send Close H		
Ready		#Polls: 15 #Errors:	0 Connected to TOTALFLOW Log		

Figure 9: Station Setup screen

- 3. At the Save Data to Disk screen, select each of the API Liquid application items (Figure 10).
- 4. Click OK.

<u>ዜ</u> PCCU32 ~ [Entry]	to industri	
Operate View Window Help		- 8 ×
10 📅 🚾 💽 🐼 🎲 🎝 🏭 🛅 🖼 🖉 🎲 🚽 🛄	🖇 🧕 🤌	
- TOTALFLOW		
Communic Save data to disk		Sotup Pat
Totalflo		S Setup Bau
Totalfic	ОК	
MMI Se		Value
- TF Rem	Cancel	
Spare -		
Bluetoc Flow Measurement		
⊡ XMV Int B- AGA3-1		
I/O Interfa		
Flow Meas		
🕀 AGA3-1		
🗄 SUAPILI		
Display		
-Holding R		
Operation     Operations		
Trend Syst		
⊞ Valve Cont		
Select All Unselect All		
Low Charger Alarm Enable		
Re-read Monitor Print Screen	Save Send	Close
Ready #Polls: 15 #Errors: 0	Connected to TO	TALFLOW Log

Figure 10: Save data to disk screen

5. At the Device Configuration File window, type the file name with the **.fcu** extension (Figure 11). The file is saved in the PCCU folder.

Budger Configuration File					
Computer  Local	Disk (C:) 🕨 I	PCCU7.40.1 >	-	✓  ✓  ✓  ✓	rch PCCU
Organize 🔻 New folder					
<ul> <li>PCCU7.40.1</li> <li>alrmfile</li> <li>archfile</li> <li>ascifile</li> <li>CalReports</li> <li>devconfi</li> <li>devexprt</li> <li>DeviceID</li> <li>IniFiles</li> <li>lotermdb</li> <li>pccudata</li> <li>pccutemp</li> <li>PDFReports</li> <li>RBAC</li> </ul>		Name  alrmfile achfile acifile CalReports devconfi devexprt DeviceID IniFiles Iotermdb pccudata pccutemp PDFReports	111	Date modified 4/10/2015 2:36 PM 4/10/2015 2:36 PM 4/16/2015 12:55 PM 4/17/2015 9:29 AM 4/10/2015 2:36 PM	Type File fold File fold
File name: API Liquid Scre Save as type: FCU Files (*.fcu)	en Savefcu			Save	

Figure 11: Device Configuration File screen

6. To view the screen shots using PCCU, click on **Operate**, and choose *Open Configuration File* from the dropdown menu (Figure 12).

ta PCCU	132 - [Entry]		-			
	erate <u>V</u> iew <u>W</u> indow <u>H</u>	elp				
ð í	Open Configuration File	K		9 🛷		
<b>.</b>	Laptop File Utilities					
	Archive File Utilities				Setup	
	Communications	•				-
	File Utilities	•			79.31.0	Dynam
					79.30.4	Multi p
	Security	•			79.30.2	Calibra
	Setup	•			79.30.0	K Facto
	Exit				79.32.0	Point 1
					79.33.0	Point 1
	Setup				79.32.1	Point 2
	Analysis				79.33.1	Point 2
	Digital Outputs					

Figure 12: Opening Configuration file using PCCU

- 7. At the Device Configuration File screen, locate and select the configuration file saved earlier in the PCCU7 folder (Figure 13).
- 8. Click Open.

Burger Configuration File	3	******		
Computer + Local Disk (C:) + PCCU7.4	0.1 🕨		• 4	Search PC
Organize 🔻 New folder				
<ul> <li>PCCU7.40.1</li> <li>alrmfile</li> <li>archfile</li> <li>ascifile</li> <li>CalReports</li> <li>devconfi</li> <li>devconfi</li> <li>devcprt</li> <li>DeviceID</li> <li>IniFiles</li> <li>lotermdb</li> <li>pccudata</li> <li>pccutemp</li> <li>PDFReports</li> <li>RBAC</li> <li>spreadsh</li> <li>TFModbus</li> </ul>		Name CalReports devconfi DeviceID IniFiles lotermdb pccudata pccutemp PDFReports RBAC spreadsh TFModbus trends API Liquid Screen Save_fcu		Select a fi
File name:			•	FCU Files (*.fcu) Open

Figure 13: Device Configuration Files

9. View all the API Liquid Tube configuration screens (Figure 14).

PCCU32 - [Configuration File C:\F	CCU7.40.1\API Liqu	id Screen Savefc	J]					
Operate View Window Hel	p							
		Archive		9			1,272	
			Denninger Tom So	Sētup 🛛 💙				
	Log Ca	Log Capacity		Current Values		Last Calc Values		
	General	Liquid Co	onstants	Limits	Fixed Values (	On Errors	Command	
Setup		Description	1		Value			
- Digital Outputs	12.5.0 Device	Device/APP ID SUAPILIQ-1						
- No Flow	12.5.2 Tube D	escription	TotalFI	TotalFlow				
Multipoint Cal.	12.0.0 Contra	Contract Hour 0						
	12.1.6 Vol Ca	lc Period	1 Seco	1 Second				
12.2.0 12.7.4 12.0.9 12.30.0 12.35.0 12.38.0 12.50.0	12.2.0 Log Pe	riod	60 minu	60 minutes				
	12.7.4 Flow P	eriod (Seconds)	1					
	12.0.9 Calcula	ation Type	API Liquid					
	12.30.0 K Facto	K Factor Type Quantity/Pulse						
	12.35.0 Heatin	Heating Value Method		Volume Based				
	12.38.0 Ticket	Number	0					
	12.50.0 Meter	Body Serial Numbe	r					
	12.50.1 Meter	nternals Serial						
12.2.12	12.2.12 Hold T	ime Out (Seconds)	3600					
				Screen	Save Close	e Help	Pri	
Ready		#Polls:	46 #Error	rs: 0 Conr	nected to TOTAL	FLOW Login	: user	

Figure 14: Configuration File view screen

**Note**: If connected to the device using PCCU in entry mode, both the entry mode and the configuration file screens can be displayed simultaneously. After the upgrade, if you open the configuration file while connected to the device, you can resize and move the configuration file screen (Figure 15) to be able to view the entry screen as well (Figure 16).

PCCU32 - [Configuration File C:\PCCU7\/	API Liquid Screen Savefcu]				- • x		
Operate View Window Help					- 8 ×		
1 🖻 🔁 💀 🚳	P 🛄 Setup 🧇				_1_		
E- Device	Log Capacity	Current '	Values	Last Calo	Values		
E- Flow Measurement	General Liquid	Constants Lin	nits Fixed	Values On Errors	Commands		
Setun							
Digital Outputs	Descr	iption	Value				
- No Flow	79.5.0 Device/APP ID		SUAPILIQ-1				
Adv Setup	79.5.2 Tube Description		TotalFlow				
Multipoint Cal.	79.0.0 Contract Hour	79.0.0 Contract Hour		0			
79.1.6 Vol Calc Period			1 Second				
	79.2.0 Log Period	Log Period		60 minutes			
	79.7.4 Flow Period (Seco	Flow Period (Seconds)		1			
	79.0.9 Calculation Type	Calculation Type		API Liquid			
	79.30.0 K Factor Type	K Factor Type     K Factor Type     Heating Value Method     Ticket Number		Quantity/Pulse			
	79.35.0 Heating Value Me			Volume Based			
	79.38.0 Ticket Number			0			
	79.50.0 Meter Body Seria	Meter Body Serial Number					
	79.50.1 Meter Internals S	erial Number					
	79.2.12 Hold Time Out (Se	econds)	3600				
			^				
					•		
			Screen Save	Close Hel	p Print		
Ready		#Polls: 102 #	#Errors: 0	Connected to TF	XFC L		

Figure 15: Resizing configuration file window

To avoid confusion between the screens check the screen name at the top of the window. The window name indicates if showing the entry mode or the configuration file screens.



Figure 16: Entry mode and configuration file screens in PCCU

## 5. Additional Information

Totalflow product customer service 7051 Industrial Blvd. Bartlesville, OK 74006 Phone: +01 918 338 4880 Toll Free: +01 800 442 3097 (US only) www.abb.us/totalflow