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Application Note 51628 (Revision -, 10/2020) Original Instructions

Instructions for SPC Software Update

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SPC Software Update Instructions

This instruction is dedicated to Woodward P/N's: 8200-226 and 8200-227

8200-227 SPC CANopen Update in the Field

Package Contents:

- FieldUpdateTool_revA.wstool
- 5418-7615A_UpdateFinalize.wset
- 5418-7615 A.SCP
- 51628-.pdf this file

IMPORTANT Before continuing make configuration parameters are backed up.

To perform an SPC update in the field follow the steps below.

 Use SPC Service Tool to save configuration file. Download latest revision 9927-1029 P from this link : <u>https://www.woodward.com/en/support/software%20assets/calibration%20tool/2020/06/04/10/25/992</u> <u>7-1029-p</u> or search for 9927-1029 in: <u>https://www.woodward.com/soarch#to_Title_According&resources_Software</u>

 $\underline{https://www.woodward.com/search#o=Title,Ascending&resources=Software}$

- Download Woodward Toolkit from : <u>https://www.woodward.com/search#o=Title,Ascending&resources=Software</u> Search for 9927-1226 and download latest available version.
- 3. Install Woodward Toolkit
- 4. Double click on FieldUpdateTool_revA.wstool it will open Toolkit and load update tool
- 5. Click File and Load Application to open update window



6. Make sure unit is I/O locked. Click Next

💥 Load Application	×
Loading Application Please acknowledge the following safety warning.	
The device will be I/O locked while the application is loaded. Verify that the device and what it is controlling are in a safe state before proceeding. Failure to do so may result in personal injury or damage to equipment.	
⊊ancel	<u>N</u> ext >

7. Browse for 5418-7615 A.SCP file on your disk and click Next.

💥 Load Application	×
Application File Selection Select the application file to load.	
Click 'Browse' to select the file. C:\SPC\5418-7615 A.SCP	Browse
Set selected directory as default directory	
	<u>C</u> ancel <u>N</u> ext >

8. Don't select checkbox and click next

💥 Load Application		×
Restore Settings What do you want to do?		
What do you want to do with the device's settings? Restore the device's current settings after loading the application. The device's current settings may be lost. 		
	Cancel	<u>N</u> ext >

9. Select COM port where SPC is connected. Then click Next to start update.

💥 Load Application			×
Network Selection Select the network to connect wi	th.		
Select a network:	Baud Rate:		
-# COM5	AutoDetection		
-# СОМЗ			
-# COM4			
-# COM7			
-# COM13			
TCP/IP			
- Kvaser Virtual #0 (Channel 0)			
- Kvaser Virtual #0 (Channel 1)			
-]		-
		Cancel	<u>N</u> ext >

10. Wait until update is done

💥 Load Application	×
Finished	
Application loaded successfully.	
	<u>C</u> lose

- 11. Once done click Close button
- 12. Select Settings and "Load Settings File to Device..."



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13. Browse to 5418-7615A_UpdateFinalize.wset on your disk. Click Next.

K Load Settings File to Device		×
Settings File Selection Select the settings file to load.		
Click 'Browse' to select the file.		
C:\SPC\5418-7615A_UpdateFinalize.wset		Browse
Set selected directory as default directory	•	
	<u>C</u> ancel	<u>N</u> ext >

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14. On next screen select COM port where SPC is connected. Then click Next to load settings file.

💥 Load Settings File to Device			×
Network Selection Select the network to connect w	ith.		
Select a network:	Baud Rate:		
- COM5 COM3 COM4 COM7 COM7 COM13 COM13 Com13 Com13 Com14 Com13 Com14 Com13 Com14 Com13 Com14	AutoDetection		
		Cancel	<u>N</u> ext >

15. Make sure device is I/O locked and click "Next".

K Load Settings File to Device		×
Load Settings Please acknowledge the following safety warning.		
The device will be I/O locked while settings are loaded. Verify that the device a in a safe state before proceeding. Failure to do so may result in personal injury or damage to equipment.	ind what it is co	ontrolling are
	<u>C</u> ancel	<u>N</u> ext >

16. Wait until load is done



- 17. Click close button
- 18. Close this tool
- 19. Open SPC Service Tool rev P
- 20. Open configuration parameters from the device and review all parameters are correct
- 21. Load configuration again to the device (select Load to control) even if not changed to finalize update procedure
- 22. Update process is done once configuration parameters are loaded to the device
- 23. If there is need to keep back up configuration file on disk store it again. Configuration files stored from previous software version will not be compatible with new software version.

8200-226 SPC DeviceNET Update in the Field

Package Contents:

- SPC 5418-2322 B.SCP
- 51628-.pdf this file

IMPORTANT Before continuing make configuration parameters are backed up.

To perform an SPC update in the field follow the steps below.

- Use SPC Service Tool to save configuration file. Download latest revision P <u>https://www.woodward.com/en/support/software%20assets/calibration%20tool/2020/06/04/10/25/992</u> <u>7-1029-p</u> Or search for 9927-1029 in: https://www.woodward.com/search#o=Title,Ascending&resources=Software
- Download Woodward Toolkit from : <u>https://www.woodward.com/search#o=Title,Ascending&resources=Software</u> Search for 9927-1226 and download latest available version.
- 3. Install Woodward Toolkit
- 4. Open Woodward Toolkit
- 5. Click File and Load Application

*	Woodward	ToolKit							
Main	View	Settings	Tools						
		2	H	B	Å		10 SM		
New	Open	Close	Save	Save As	Design Mode	Connect	Disconnect	Load Application	Communication Statistics
		Tool						Device	

6. Make sure unit is I/O locked. Click Next

💥 Load Application	×
Loading Application Please acknowledge the following safety warning.	
The device will be I/O locked while the application is loaded. Verify that the device and what it is controlling are in a safe state before proceeding. Failure to do so may result in personal injury or damage to equipment.	
⊊ancel	<u>N</u> ext >



7. Browse for 5418-2322 B.SCP file on your disk

Application File Selection Select the application file to load.	
Click 'Browse' to select the file.	
C:\SPC\SPC 5418-2322 B.SCP	Browse
Set selected directory as default directory	
<u>C</u> ancel	<u>N</u> ext >

8. Don't select checkbox, click next

K Load Application		×
Restore Settings What do you want to do?		
What do you want to do with the device's settings? Restore the device's current settings after loading the application. The device's current settings may be lost.		
	Cancel	<u>N</u> ext >

9. Select COM port where SPC is connected. Then click Next to start update.

💥 Load Application			×
Network Selection Select the network to connect w	ith.	<u> </u>	
Select a network:	Baud Rate:		
-# COM5 -# COM3 -# COM4 -# COM7	AutoDetection		•
-# COM13			
 ■ TCP/IP ■ Kvaser Virtual #0 (Channel 0) ■ Kvaser Virtual #0 (Channel 1) 			
		<u>C</u> ancel	<u>N</u> ext >

10. Wait until update is done

💥 Load Application	×
Finished	
Application loaded successfully.	
	<u>C</u> lose

- 11. Once done click Close button
- 12. Close this tool
- 13. Open SPC Service Tool rev P
- 14. Open configuration parameters from the device and review all parameters are correct
- 15. Load configuration again to the device (select Load to control) even if not changed to finalize update procedure
- 16. Update process is done once configuration parameters are loaded to the device
- 17. If there is need to keep back up configuration file on disk store it again. Configuration files stored from previous software version will not be compatible with new software version.



SPC Unit Replacement

This instruction describes how to load saved configuration to replacement unit and it applies to:

- 8200-226
- 8200-227

To replace the SPC Unit, follow the steps below.

- 1. Open SPC Service tool rev P
- 2. When prompted for COM port click Cancel

😤 SPC Service Tool

 \Box \times

File Communication Help

SPC Service Tool Conr	nection X
Select a Port:	
COM5 serial port	
COM3 serial port	
COM4 serial port	
Contro senar por c	
01/2	Cancel

Not Connected



3. Select File and "Open Configuration File". Navigate and select cfg file with back up parameters.

R	🗞 SPC Service Tool	
File	e Communication Help	
C	New Configuration Open Configuration File Open Control Configuration Load Configuration File to Control	
	Exit	

- 4. New window with parameters will be opened. Move it aside.
- 5. On main window click File and "New Configuration File"

🛠 SPC Service Tool	-	×	😤 Configuration File Editor - Test conf	fig.cfg	- 0 X
File Communication Help			File Help		
New Configuration			🗅 😅 🖬 🖄 🖄 🖇		
Open Configuration File			Servin Controller Position Demand Feedb	ack Position Error Driver DeviceNet	
Open Control Configuration					
Load Configuration File to Control			Position Demand Source	Analog Settings	
Exit				0% Position Demand:	4,00 mA
			O DeviceNet Only	100% Position Demand:	20,00 mA
			DeviceNet Primary	Redundant Position Demand Settings	
				Tracking Error Threshold:	5,00 %
			O Analog Only	Tracking Error Delay:	0,00 s
			Analog Primary	Position Demand Fault Response:	O Shutdown Alarm
				Latch position demand faults	
		 _			



- 6. When prompted for service interface version select:
 - a. 5418-2322B for 8200-226 unit
 - b. 5418-7615A for 8200-227 unit

The selection will open new window with empty configuration.

7. Arrange windows side by side and replicate all parameters manually to new configuration.

Configuration File Editor - Configuration 1.cfg	X 🛠 Configuration File Editor - Test config.cfg —					
Servo Controller Position Demand Feedback Position Error Driver DeviceNet	Servo Controller Position Demand Feedback Position Error Driver DeviceNet					
Controller Type Proportional P PI PI PI w/Lag Not Configured	Position Demand Source Analog Settings O PericeNet Only 0% Position Demand: 4,00 mA O DeviceNet Only 100% Position Demand: 20,00 mA O DeviceNet Primary Redundant Position Demand Settings Trading Error Threshold: 5,00 % O Analog Only Trading Error Delay: 0,00 s O Analog Primary Position Demand Fault Response: O Shutdown @ Alarm					

8. Once all parameters are copied save configuration file on your disk.

😤 Configuration File Editor - Configuration1.cfg					
File	Help		_		
	New				
	Open		Feedba	ck	Position
	Save		eeuba	ICK.	POSICION
	Save As				
	Open From Control				
	Load To Control	Ctrl+L			Forward
	Properties				Actuato
	Close				Actuato

- 9. Close configuration windows and connect to the device.
- 10. If needed, load stored configuration to the device.



We appreciate your comments about the content of our publications. Send comments to: <u>icinfo@woodward.com</u>

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