## **Installation Note**

# Fitting Advanced Communications Card to SP PRO series II

#### Introduction

This instruction will show how to install the Advanced Communications Card (Comm Card 2017) into a SP PRO series II.

The Advanced Communications Card Installation kit is not suitable for SP PRO Series I.

This installation note is applicable to the following installation kits.

Kit Name	Order Code	Included Items
Universal Comm Card 2017 upgrade Kit		Advanced Communications Card
	005295	<ul> <li>Grey BMS to SP PRO CAN bus cable</li> </ul>
		Blue patch lead
		Termination connector.

#### **Summary of steps**

The following is a summary of the steps needed to complete the installation. Once the installation is completed, use the below points as a check list:

- □ Install the latest version of SP LINK on your computer from <u>http://www.selectronic.com.au</u>
- □ Connect to the SP PRO via the original **green** comm card using SP LINK software.
- □ Update the SP PRO firmware, selecting a firmware suitable for your AC coupled inverter if applicable.
- □ Install the Advanced Communications Card in the SP PRO.
- □ Update firmware in Advanced Communications Card using SP LINK.

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The SP PRO firmware must be the latest. You must install SP LINK on a Windows computer, connect to the SP PRO and update its firmware. This is done by following the steps below:

- 1. Leave the original **green** comm card in the SP PRO until the firmware update process is complete.
- Download the SPLINK software from the Selectronic web site and install it on a Windows PC. Windows XP, Vista, 7, 8.1 and 10 are supported. <u>http://www.selectronic.com.au/splink</u>
- 3. Connect the PC to the SP PRO via the supplied USB cable.
- 4. Connect the DC power to the SP PRO. Wait until the SP PRO front panel LEDs are stable.



- 5. Start Selectronic SP LINK.
- 6. At the Easy Start Guide, select "Firmware Update..."



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7. The Easy Start Guide will automatically detect when the SP PRO is ON and USB cable is plugged into the SP PRO and computer.

Click "Connect" to start the SP PRO Firmware Update process.

Easy Start Guide	
Firmware Update:	
Select USB Device:	
The following devices have been detected on a USB cable:	
Model:SPMC482 Serial:118101 V	
Connect and update firmware:	
User Access Password: Selectronic SP PRO	
Connet	
Connect	
Connect	
Connect	
COTTEL	
COTTRU	

8. In the SP PRO Firmware Update screen, click on the "Upload firmware and restart SP PRO on completion" button.

The second of the second se	10.98 M4		
String Inverter Support:	Fronius		
Model:	SPMC482, 48V DC, 7.5kW, 240V AC		
Serial:	167128		
Control Board Serial:	163493		
Comms Card Version:	Not Present		
Comms Card Serial:	Not Present		
New Firmware Informa	ation		
Version:	11.11 M4		
String Inverter Support:	Fronius		
Model:	All models		
Control Board Senal:	All senal numbers		
Comms Card Version: Comms Card Serial:			
Comms Card Version: Comms Card Serial: After restarting, the SP	PRO may be inaccessible for a few minutes.		
Comms Card Version: Comms Card Serial: After restarting, the SP Upload firmware and restart SP PRC on completion	PRO may be inaccessible for a few minutes.		

#### **Important:**

- **a.** Some batteries may turn themselves OFF during the firmware update. If this occurs, turn the batteries ON, close the SP PRO Firmware Update window and reconnect to the SP PRO. Continue the firmware update (step 7 and 8), repeat the process until the firmware is updated.
- **b.** In the case where the SP PRO firmware upload is complete and the batteries turn OFF while the SP PRO is performing a firmware upgrade, turn the batteries ON and wait until the front panel LEDs are stable. This may take a few minutes.



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9. Verify the firmware has updated successfully. Once the SP PRO has restarted, wait another 20 seconds then click "Connect" again at the Easy Start Guide.

Firr	nware Update:	
Se	lect USB Device:	
	The following devices have been detected on a USB cable:	
	Model:SPMC482 Serial:118101	
6	noest and undate firmware.	
Co	nnect and update firmware: User Access Passwort: Selectronic SP PRO	
C	nnect and update firmware: User Access Password: Selectronic SP PRO	
C.	nnect and update firmware : User Access Password: Selectronic SP PRO	

10. The "Upload firmware and restart SP PRO on completion" button will now be disabled if the **Current** and **New** versions are the same.



11. Disconnect SP LINK and power down the SP PRO inverter (All lights on the front panel will be OFF). The three blue lights across the top will still be lit if there is AC source power (grid or generator). This is OK.

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- 1. Make sure that the SP PRO inverter is powered down (All Lights on the front panel will be off) The three blue lights across the top will still be lit if there is AC source power (grid or generator). This is Ok.
- Remove the 4 Torx screws holding the original green comm card in the SP PRO.
   Do not throw away the Torx screws. These screws (mounting screws) will be used to remount the Advanced Communication Card.
- 3. Remove the 2 short grey RJ45 connectors from the Control Board in the SP PRO. (Internal Communications Ports 1 and 2)
- 4. Remove the white, 2 pin plug on the top right corner of the **green** comm card (Power).
- 5. Remove the original **green** comm card.
- 6. Connect the white, 2 pin plug (power) to the top, right corner of the Advanced Communication Card.
- 7. Connect the two, small grey RJ45 leads to the Advanced Communications Card and into the Control board in the SP PRO (Internal Communications Ports 1 and 2).
- 8. Screw down the Advanced Communications Card into the SP PRO using the 4 Torx screws.



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#### **Updating Firmware in the Advanced Communication Card**

- 1. Start Selectronic SP LINK.
- 2. Select "Firmware Update..."



3. The Easy Start Guide will automatically detect when the SP PRO is ON and USB cable is plugged into SP PRO and computer.

Click "Connect" to start the firmware update process.

Firmware Opdate:	
Select USB Device:	
The following devices h	ave been detected on a USB cable:
Model:SPMC482 Serial	:118101 ~
Connect and update fin	mware:
Connect and update fin	mware: Selectronic SP PRO
Connect and update fin User Access Password: Connect	mware: Selectronic SP PRO
Connect and update fin User Access Password Connect	mware: Selectronic SP PRO
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4. In the SP PRO Firmware update screen click on the "Upload firmware and restart SP PRO on completion" button.

Note: If firmware is already up to date then this button will be disabled.



#### **Important:**

- Batteries may turn OFF during the firmware update. If this occurs, turn the batteries ON, close the SP PRO Firmware Update window.
   Reconnect to the SP PRO and continue Firmware update (step 7 and 8). Repeat the process until the firmware is updated.
- b. In the case where the SP PRO firmware upload is complete and the batteries turn OFF while the SP PRO is performing a firmware upgrade, turn the batteries ON and wait until the front panel LEDs are stable. This may take a few minutes.
- After the update is completed, the SP PRO will automatically restart. You will need to wait about
   2.5 minutes for the Advanced Communications Card to restart. Communications with the SP PRO will be lost during this time.



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6. Verify the firmware has updated successfully. Once the SP PRO has restarted, wait another 20 seconds then click "Connect" again at the Easy Start Guide.

Easy Start Guide	
Firmware Undate:	
Select USB Device:	
The following devices have been detected on a USB cable:	
Model:SPMC482 Serial:118101 V	
Connect and update firmware:	
User Access Password: Selectronic SP PRO	
Connect	
Denting	

Make sure the Current Comms Card Version is 2.06 or higher, and matches the New version.
 Note: If the Advanced Communications Card Firmware is up to date then the "Upload firmware and restart SP PRO on completion" button will be disabled (greyed out).

Current SP PRO Firms	vare Information	1
Version:	11.09 M4	
String Inverter Support:	Fronius	
Model:	All models	
Serial:	167128	
Control Board Serial:	163493	
Comms Card Version: 🤇	2.06	
Comms Card Serial:	16777215	
New Firmware Informa	ation	
Version:	11.09.M4	Check Firmware versions
String Inverter Support:	Fronius	match each other
Model:	All models	indeen eden ooner
Control Board Serial:	All serial numbers	P.
Comms Card Version:	2.06	12
Comms Card Serial:	All serial numbers	Ê.
After restarting, the SP	PRO may be inac	cessible for a few minutes.
Upload firmware and restart SP PR( on completion		Cancel
Button Greved out		
secon stayed out		Switch to Manual mode
atus		
manuara landed Dee	dute condite 9	PPPA

#### **ADDITIONAL INFORMATION**

Selectronic web site – <u>http://www.selectronic.com.au</u> or contact the Selectronic Sales Team.