

CCGX & Fronius PV Inverters

By connecting a Fronius PV Inverter and [Color Control GX](#) (CCGX) together you can:

1. See Fronius information on the CCGX.
2. Monitor the Fronius on the VRM Portal.
3. Enable the Fronius kWh reading to be used for the solar yield and also the consumption tab on VRM.
4. Allow the Victron system to control the Fronius output power, Zero feed-in. See the [ESS manual](#), chapter 2.1.3 Fronius Zero feed-in for details.

This document describes how to setup the monitoring functions. To configure a Fronius PV inverter and the Multi or Quattro, see [AC-coupled PV with Fronius PV Inverters](#).

1. Requirements

Model	Required accessory
Fronius Symo Light	Purchase and install the datamanager 2.0
Fronius Symo	No accessory needed, datamanager card installed from factory
Fronius Galvo	No accessory needed, datamanager card installed from factory
Fronius IG Plus (*)	Purchase and install the datamanager 2.0
Fronius Agilo	Purchase and install the datamanager box

(*) The Fronius Zero feed-in feature - which is part of an Energy Storage System [ESS](#) - will work on all the above models except the *IG Plus*.

All the new Fronius inverters - for example the upcoming Fronius Primo - will arrive fitted with a *datamanager 2.0*, as standard.

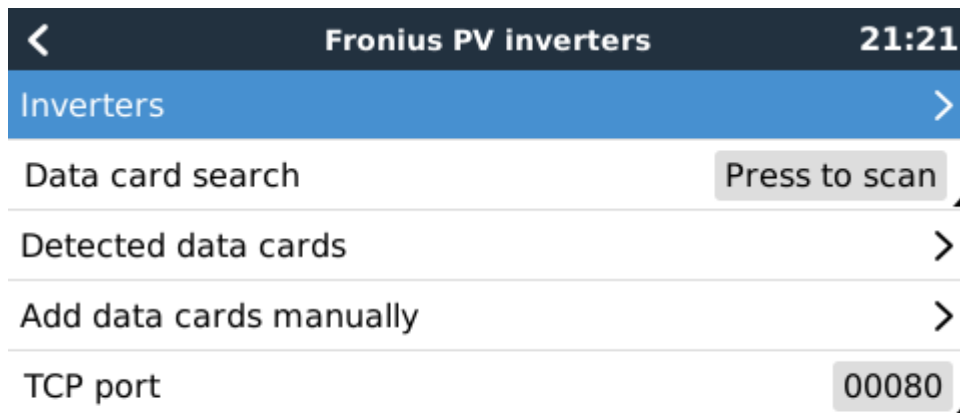
Both the Fronius and the CCGX need to be connected on the same LAN, either via Wi-Fi or Ethernet.

Note that the [Datalogger Web](#) is not supported. Contact your Fronius dealer to find out about the upgrading options.

2. Configuring

2.1 Setup

1. Connect both the Fronius and the CCGX on the same LAN network, in the same subnet. If you don't know what a subnet is, don't worry, you'll probably be fine.
2. Configure the Fronius datamanager according to its manual. (On DHCP networks, no configuration of the datamanager is needed)
3. In the CCGX, navigate to settings and then the Fronius PV Inverters section. You will see this menu:




The screenshot shows the 'Fronius PV inverters' menu. At the top, there is a back arrow, the title 'Fronius PV inverters', and the time '21:21'. Below the title bar, the 'Inverters' option is highlighted in blue with a right arrow. Other menu items include 'Data card search' with a 'Press to scan' button, 'Detected data cards' with a right arrow, 'Add data cards manually' with a right arrow, and 'TCP port' with a text field containing '00080' and a dropdown arrow.



The bottom navigation bar is dark blue. It contains a 'Pages' icon (a small bar chart) and the text 'Pages', and a 'Menu' icon (three horizontal lines) and the text 'Menu'.

4. Press scan in the CCGX menu, and after completion go into the Inverters submenu to see the results. In case scanning does not find the inverter, manually add the IP address of the Fronius Datamanager card or box.
5. After it has found inverters, you can see them in the Inverters menu. The name used in the menu is the serial number of the inverter, which you can find on the inverter itself:

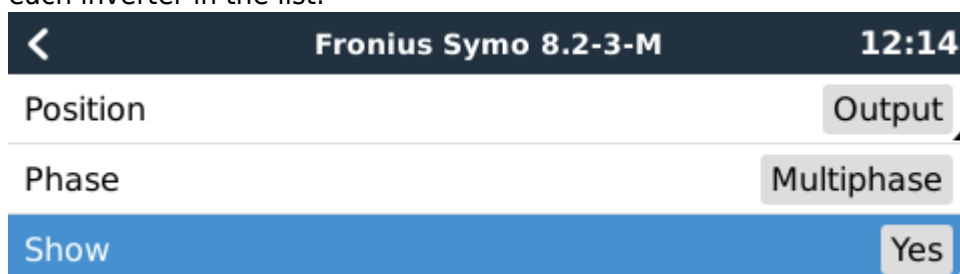


The screenshot shows the 'Inverters' menu. At the top, there is a back arrow, the title 'Inverters', and the time '12:14'. Below the title bar, the inverter 'Fronius Symo 8.2-3-M' is listed in blue with a right arrow. To the right of the inverter name is a button labeled 'AC-Out MP' with a right arrow.



The bottom navigation bar is dark blue. It contains a 'Pages' icon (a small bar chart) and the text 'Pages', and a 'Menu' icon (three horizontal lines) and the text 'Menu'.

6. Configure the position relative to the Multi or Quattro (AC Input / AC Output). and phase for each inverter in the list:



The screenshot shows the configuration screen for 'Fronius Symo 8.2-3-M'. At the top, there is a back arrow, the title 'Fronius Symo 8.2-3-M', and the time '12:14'. Below the title bar, there are three settings: 'Position' with a dropdown menu showing 'Output', 'Phase' with a dropdown menu showing 'Multiphase', and 'Show' with a dropdown menu showing 'Yes'.



The bottom navigation bar is dark blue. It contains a 'Pages' icon (a small bar chart) and the text 'Pages', and a 'Menu' icon (three horizontal lines) and the text 'Menu'.

- Position: the position relative to the Multi or Quattro [AC Input 1 / AC Input 2 / AC Output]
- Phase: the phase on which the PV Inverter installed. Disabled and set to Multi-phase for split- and three-phase PV Inverters
- Show: show this device in the system or not. Use this feature when there are multiple, separate, energy systems on the same LAN.

7. Done!

2.1 Device scan details

As mentioned above the CCGX should find all Fronius inverters automatically. It will scan all IP-addresses in the local network (that is, all IP-addresses within the netmask assigned to the CCGX) to check whether or not they are Fronius datamanager cards. This scan will be performed during CCGX startup, and whenever the CCGX loses connection to a data card. The scan can be started manually as well by pressing 'Press to scan'.

Usually a device scan is completed within a minute. If you have a large subnet, the scan may need much more time. If you don't want to wait for completion, you can enter an IP-address manually.

All data cards found will be inserted into the 'Detected data cards' list. The CCGX will regularly (once every minute) scan the IP-addresses in this list in order to find new data cards, or reconnect to data cards when the connection was lost.

If you changed to TCP port number on the data manager, you can change this as well on the CCGX (TCP port). Otherwise, leave this setting at its default (80).

3. Monitoring CCGX

When the Fronius is detected and configured on the CCGX every PV inverter will be visible in the devicelist.

Device List		12:16
BMV-702		>
MultiPlus 48/5000/70-50		>
Fronius Symo 8.2-3-M		>
PV Inverter on output		>
Notifications		>
Settings		>
📶 Pages		⌵
		☰ Menu

To see the device details navigate into the menu. Here you can see the current state, current power generated, total power generated

Fronius Symo 8.2-3-M			12:12
Status			Running
Error Code			0
AC Phase L1	228V	1.0A	225W
AC Phase L2	229V	1.0A	231W
AC Phase L3	228V	1.0A	229W
AC Totals	2.9A	685W	
<div><div><div></div><div>Pages</div><div></div></div><div></div><div><div></div><div>Menu</div><div></div></div></div>			

Fronius Symo 8.2-3-M			12:13
AC Totals	3.0A	704W	
		1578.87kWh	
Energy L1	522.37kWh		
Energy L2	532.77kWh		
Energy L3	523.74kWh		
Device			>
<div><div><div></div><div>Pages</div><div></div></div><div></div><div><div></div><div>Menu</div><div></div></div></div>			

For more details on the device navigate into the Device menu. Here you can find: ipadres, Product name, product ID, serial number

Device		12:14
Connection	192.168.1.109 - 1	
Product	Fronius Symo 8.2-3-M	
Product ID	41282	
Firmware version	--	
Device instance	20	
Serial number	65915	
Pages		Menu

4. Monitoring on the VRM Portal

To see the yield on the VRM site in the Advanced tab, do not forget to enable the PV Inverter yield widget(s) in Settings → Advanced tab setup.

PV Inverter Status [20]			
Running			
Voltage			
L1 Voltage	L2 Voltage	L3 Voltage	
234.6 V	234.7 V	232.9 V	
Current			
L1 Current	L2 Current	L3 Current	
2.72 A	2.79 A	2.74 A	
Power			
L1 Power	L2 Power	L3 Power	
645 W	662 W	645 W	
Energy			
L1 Energy	L2 Energy	L3 Energy	
524.32 kWh	534.77 kWh	525.70 kWh	

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