

CCGX & Fronius PV Inverters

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

1. See Fronius information on the CCGX.
2. Monitor the Fronius on the VRM Portal.
3. 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. For more information on using Fronius PV Inverters in a Victron system, 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 recent Fronius inverters - for example the Fronius Primo - will arrive fitted with a *datamanager 2.0*, as standard.

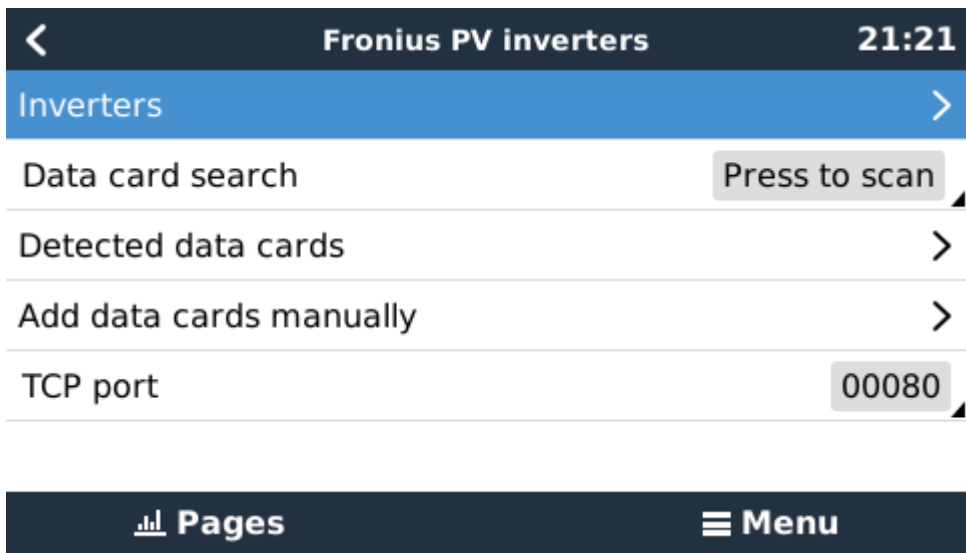
Both the Fronius and the CCGX need to be connected on the same LAN - either via Wi-Fi or Ethernet.

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

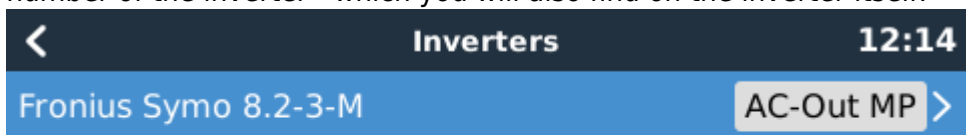
2. Configuring

2.1 Setup

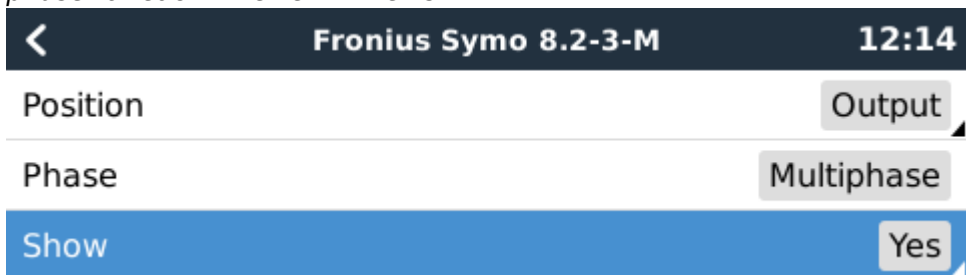
1. Connect both the Fronius and the CCGX on the same LAN network, in the same subnet. (If you don't know what a subnet is, don't worry - you'll probably be fine!)
2. Configure the Fronius datamanager using its manual. (On DHCP networks, no configuration of the datamanager is required.)
3. In the CCGX,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



- 4. Select *Scan* in the CCGX menu, and after completion go into the Inverters submenu to see the results. If scanning does not find the inverter, manually add the IP address of the Fronius Datamanager from its card, or box.
- 5. Once located, you will see the Inverters listed in the menu. The name used will be the serial number of the inverter - which you will also find on the inverter itself:



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



- 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; whenever the CCGX loses connection to a data card; and a scan can also be initiated manually by selecting 'Press to scan'.

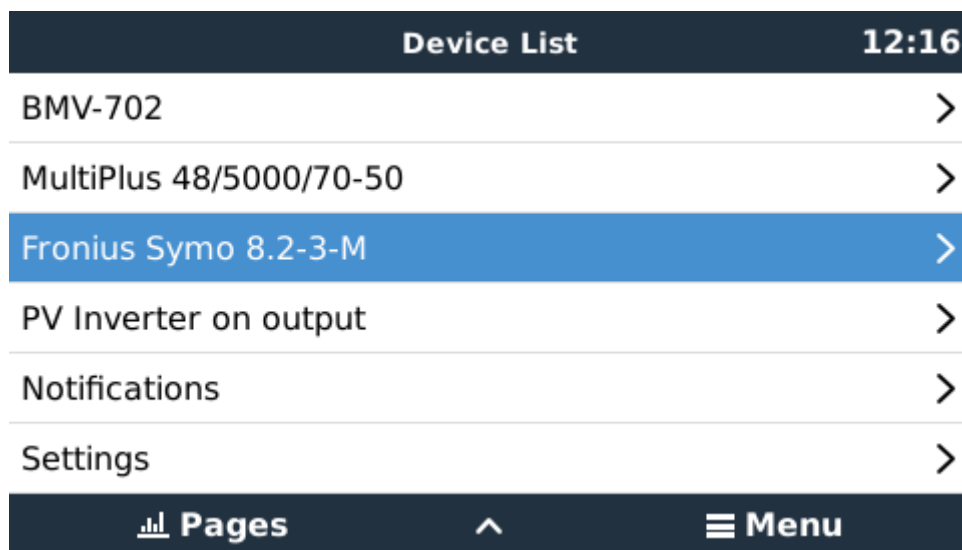
Usually a scan is completed within a minute - though if you have a large subnet it may take much more time. If you don't want to wait for completion, enter an IP-address manually.

All data cards found will be entered in 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 whenever the connection was lost.

If you changed to *TCP* port number on the data manager, you should change this setting on the CCGX, too (TCP port) - otherwise leave the setting at its default (80).

3. Monitoring CCGX

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



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

The screenshot shows the monitoring interface for a Fronius Symo 8.2-3-M inverter. The top header displays a back arrow, the device name 'Fronius Symo 8.2-3-M', and the time '12:12'. Below this, the 'Status' is 'Running'. The 'Error Code' is '0'. The AC phase data is as follows:

Phase	Voltage (V)	Current (A)	Power (W)
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

The bottom section of the screenshot shows a navigation bar with 'Pages' and 'Menu' options. Below it, the 'AC Totals' are shown as 3.0A and 704W, with a cumulative energy of 1578.87kWh. Individual phase energy values are: Energy L1 (522.37kWh), Energy L2 (532.77kWh), and Energy L3 (523.74kWh). The 'Device' menu is highlighted with a right arrow.

For more details on each device navigate to the Device menu. Here you will find: IP address, Product name, product ID, and Serial number, etc.

The screenshot shows the 'Device' menu for the Fronius Symo 8.2-3-M. The top header displays a back arrow, the device name 'Device', and the time '12:14'. The details are as follows:

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

The bottom section of the screenshot shows a navigation bar with 'Pages' and 'Menu' options.

4. Monitoring on the VRM Portal

To see the yield on the VRM site (in the *Advanced* tab), don't 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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