

# 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. Fronius kWh reading will be used for the solar yield and also the consumption tab on VRM.
4. Have the Victron system 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 <a href="#">datamanager 2.0</a>     |
| 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 <a href="#">datamanager 2.0</a>     |
| Fronius Agilo      | Purchase and install the <a href="#">datamanager box</a>     |

All the new inverters, for example the upcoming Fronius Primo are fitted by default with the datamanager 2.0.

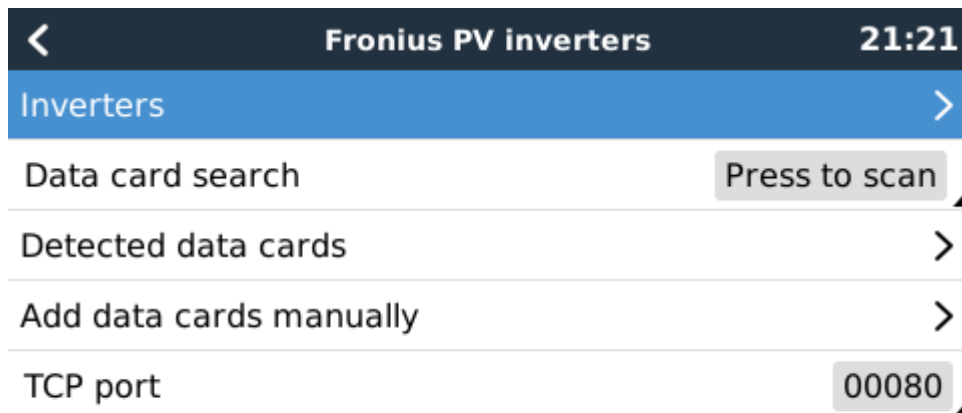
Both the Fronius and the CCGX need to be connected on the same LAN, either via Wi-Fi or Ethernet.

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.



A dark blue navigation bar containing a 'Pages' icon (three horizontal bars) and the text 'Pages' on the left, and a 'Menu' icon (three horizontal bars) and the text 'Menu' on the right.

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:

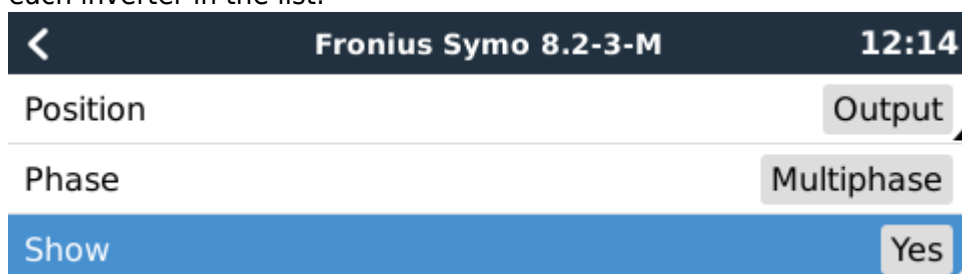


The screenshot shows the 'Inverters' menu. At the top, there is a back arrow, the title 'Inverters', and the time '12:14'. Below the title bar, the inverter 'Fronius Symo 8.2-3-M' is listed in blue with a right arrow. To the right of the inverter name is a button labeled 'AC-Out MP' with a right arrow.



A dark blue navigation bar containing a 'Pages' icon (three horizontal bars) and the text 'Pages' on the left, and a 'Menu' icon (three horizontal bars) and the text 'Menu' on the right.

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'.



A dark blue navigation bar containing a 'Pages' icon (three horizontal bars) and the text 'Pages' on the left, and a 'Menu' icon (three horizontal bars) and the text 'Menu' on the right.

- 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> Pages</div><div></div><div> Menu</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> Pages</div><div></div><div> Menu</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                |       |
| <div><div> Pages</div><div></div><div> Menu</div></div> |                      |       |

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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