

Symphon·Ξ

Configuration Manual — Fronius PV Inverter

Version:2026.9.1

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1. Introduction

1. Introduction

Manual 2026.9.1

These instructions are used to configure the following Fronius PV inverters:

Fronius

[Download platform](#) 

- Symo GEN24 3.0–10.0 kW
- Symo 3.0 - 20.0 kW
 - EXCEPT 'Light' models



The *Light* version of the Fronius Symo is explicitly **not supported**, as it does not have a dedicated communication module. The integration of the Fronius Symo GEN24 (Plus) is limited to the pure function as a PV inverter.



The latest firmware should always be installed.

2. Configuration via Web Interface — Fronius Symo GEN24

Before integrating the inverter into EMS, you should make sure that all necessary preparations have been made.

This includes configuring the inverter via the web interface.



Before configuring the PV inverter, make sure it has been installed properly. To do this, follow the Fronius manufacturer's installation instructions: [Fronius download platform](#) 

To integrate into the EMS, configure the device via the web interface. You can access this by calling up the IP address of the inverter in the browser. We recommend setting the assignment of the IP address to "Automatic" when commissioning the device.



To be able to access the web interface, your PC/notebook/smartphone must be in the same network as the inverter.

2.1. IP address

The connection between EMS and the PV inverter is always established via the customer network. For this purpose, the IP address of the PV inverter is stored statically in EMS. It is therefore necessary that the IP address of the PV inverter never changes.

- Variant 1: Configure the inverter according to the instructions so that it is assigned a static IP address.

1. **Communication** → **Network**

2. **Network** → **LAN**

3. **LAN → IP address:** Set a free IP address in the address range of the router (default: **169.254.0.180**)
 4. **LAN → Subnet mask:** Set the subnet mask used in the network (default: **255.255.255.0**)
 5. **LAN → Gateway:** Set the IP address of the router as the gateway.
- Option 2: Configure the inverter according to the instructions so that it is assigned a dynamic/automatic IP address. **Additionally**, configure the DHCP server in the customer's network (e. g., [AVM FritzBox](#) ) so that the inverter is always assigned the same IP address.
 1. **Communication → Network**
 2. **Network → LAN**
 3. **LAN → Select the Automatic option**

Then click on *Connect*. The inverter should now be connected via LAN, see figure [fig4:LAN-connected].

Netzwerk

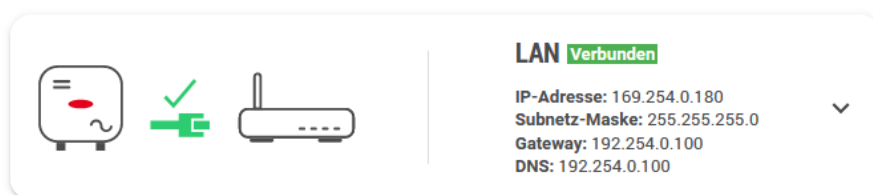


Image 1. LAN connected

2.2. Ping test

To test the correct configuration of the IP address, we recommend pinging the inverter in the local customer network.

In the example below, the IP address **192.168.188.40** was set for the inverter in the configuration.

```
PING 192.168.188.40 (192.168.188.40) 56(84) bytes of data:
64 bytes from 192.168.188.40: icmp_seq=1 ttl=64 time=3.23 ms
64 bytes from 192.168.188.40: icmp_seq=2 ttl=64 time=1.89 ms
64 bytes from 192.168.188.40: icmp_seq=3 ttl=64 time=3.08 ms
64 bytes from 192.168.188.40: icmp_seq=4 ttl=64 time=0.889 ms

--- 192.168.188.40 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 6ms
rtt min/avg/max/mdev = 0.889/2.273/3.229/0.952 ms
```

Image 2. Ping test

If the inverter cannot be reached via ping, check the settings under [IP address](#).

2.3. Modbus Settings



Technician login is required to adjust the Modbus settings. Take the access data from your invoice or contact Fronius Support with your PIN and device number. They will then send you an activation code with which you can reassign the password.

Make the following settings according to the instructions:

3. Configuration via Web Interface — Fronius Symo

1. **Communication** → **Modbus**
2. **Modbus** → Activate **Slave as Modbus TCP** option
3. **Modbus port** → Set the value **502** (*default setting*)
4. **SunSpec Model Type** → Set **float** (*default setting*)
5. **Counter address** → Set **200** (*default setting*)
6. **Inverter control via Modbus** → Deactivate (*default setting*)

The configuration has now been successfully completed. The settings should now look like Figure [Modbus settings](#):

The screenshot shows the Fronius Symo web interface. On the left, a sidebar under 'Kommunikation' has 'Modbus' selected. The main content area is titled 'Modbus-Datenausgabe'. It contains two sections for 'Modbus RTU-Schnittstelle 0' and 'Modbus RTU-Schnittstelle 1', each with radio buttons for 'Master' (selected), 'Slave', and 'Deaktiviert'. Below these is a toggle for 'Slave als Modbus TCP' which is turned on. Further down are input fields for 'Modbus-Port *' (502), 'Zähleradresse *' (200), and 'SunSpec Model Type *' (float). At the bottom is a toggle for 'Wechselrichter-Steuerung über Modbus' which is turned off.

Image 3. Modbus settings

Then continue with step [feedback service](#).

3. Configuration via Web Interface — Fronius Symo



Before configuring the PV inverter, make sure it has been installed properly. To do this, follow the manufacturer's installation instructions: [Fronius download platform](#)

To integrate into the EMS, configure the device via the web interface. You can access this by calling up the IP address of the inverter in the browser. We recommend setting the assignment of the IP address to "Automatic" when commissioning the device.



To be able to access the web interface, your PC/notebook/smartphone must be in the same network as the inverter.

3.1. IP address

The connection between EMS and the PV inverter is always established via the customer network. For this purpose, the IP address of the PV inverter is stored statically in EMS. It is therefore necessary that the IP address of the PV inverter never changes.

- Variant 1: Configure the inverter according to the instructions so that it is assigned a static IP address.
 1. **Settings** → **Network**
 2. **Network** → Select the setting **Internet via LAN** under **Connection mode**.
 3. Adjust the following settings under **LAN settings**
 4. **Obtain address** → **Static**
 5. **Hostname** → freely selectable (e. g. "PV")
 6. **IP address** → Set a free IP address in the address range of the router (default: 169.254.0.180)
 7. **Subnet mask** → Set the subnet mask used in the network (default: 255.255.255.0)
 8. **Gateway** → Set the IP address of the router as the gateway.
 9. **DNS server** → Set the IP address of the router as the DNS server.
- Option 2: Configure the inverter according to the instructions so that it is assigned a dynamic/automatic IP address. **Additionally**, configure the DHCP server in the customer's network (e. g., [AVM router](#) ) so that the inverter is always assigned the same IP address.
 1. **Settings** → **Network**
 2. **Network** → Select the setting **Internet via LAN** under **Connection mode**.
 3. Adjust the following settings under **LAN settings**
 4. **Obtain address** → **dynamic**

3.2. Ping test

To test the correct configuration of the IP address, we recommend pinging the inverter in the local customer network.

In the example below, the IP address 192.168.188.40 was set for the inverter in the configuration.

```
PING 192.168.188.40 (192.168.188.40) 56(84) bytes of data.  
64 bytes from 192.168.188.40: icmp_seq=1 ttl=64 time=3.23 ms  
64 bytes from 192.168.188.40: icmp_seq=2 ttl=64 time=1.89 ms  
64 bytes from 192.168.188.40: icmp_seq=3 ttl=64 time=3.08 ms  
64 bytes from 192.168.188.40: icmp_seq=4 ttl=64 time=0.889 ms  
  
--- 192.168.188.40 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 6ms  
rtt min/avg/max/mdev = 0.889/2.273/3.229/0.952 ms
```

Image 4. Ping test

If the inverter cannot be reached via ping, check the settings under [IP address](#).

3.3. Modbus



Admin login is required to adjust the Modbus settings. Take the access data from your invoice or contact Fronius Support with your PIN and device number. They will then send you an activation code with which you can reassign the password.

Make the following settings according to the instructions:

1. **Modbus** → Activate the option **tcp** under **Data output via Modbus**
2. **Modbus port** → Set the value **502** (*default setting*)
3. **String Control Address Offset** → Set the value **101** (*default setting*)
4. **Sunspec Model Type** → Set **float** (*default setting*)
5. The **Demo mode** and **Inverter control via Modbus** do **not** need to be activated

The settings should now look like Figure [Modbus settings](#):

Pv

Einstellungen

- ALLGEMEIN
- PASSWÖRTER
- NETZWERK
- FRONIUS SOLAR.WEB
- IO-ZUORDNUNG
- LASTMANAGEMENT
- PUSH SERVICE
- MODBUS**
- WECHSELRICHTER
- FRONIUS SENSOR CARDS
- ZÄHLER
- EVU-EDITOR

Modbus

☐ aus ☒ tcp ☐ rtu
 Modbus Port:
 String Control Adress-Offset:
 Sunspec Model Type: ☒ float ☐ int + SF
 Demo Modus: ☐
 Wechselrichter-Steuerung über Modbus: ☐

Steuerungs-Prioritäten

1. IO-Steuerung
 2. Dynamische Leistungsreduzierung
 3. Steuerung über Modbus

Legende:
 1 ... höchste Priorität
 2 ... mittlere Priorität
 3 ... niedrigste Priorität

Hinweis: eine Veränderung der Steuerungsprioritäten ist nur im EVU Editor Menü mit dem Service Passwort möglich.

Image 5. Modbus settings

3.4. Night mode

By default, the Fronius Symo does not record any data during the night. This means that no measurement data is recorded in Online Monitoring either. We therefore recommend activating logging during the night (see [Settings — Night Mode](#))

You can find the settings under: **Settings** › **Fronius Solar.Web**

Pv

Einstellungen

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- ZÄHLER
- EVU-EDITOR

Fronius Solar.web

✓ ✕

Datenlogging Einstellungen

Abfragezyklus Wechselrichter 5 Minuten ▼

Abfragezyklus Fronius Sensor Cards 5 Minuten ▼

[aufgezeichnete Logdaten löschen ...](#)

Logging während der Nachtstunden

☐ Nein ☒ Ja

Hinweis: Durch das Aktivieren dieser Einstellung wird das Abschalten des Wechselrichters während der Nachtstunden verhindert. Die Einstellung "Nightmode" am Wechselrichter ist dadurch nicht mehr gültig.

Service Meldungen an Fronius Solar.web sofort senden

☐ Nein ☒ Ja

Hinweis: Durch das Aktivieren dieser Einstellung werden Service Meldungen sofort an Fronius Solar.web gesendet. Dies kann bei limitierten Datenvolumen zusätzliche Kosten verursachen.

Aktuelle Daten an Fronius Solar.web senden

☐ Nein ☒ Ja

Archivdaten an Fronius Solar.web senden

☐ niemals ☐ täglich ☒ stündlich

☐ 00:00	☐ 01:00	☐ 02:00	☐ 03:00	☐ 04:00	☐ 05:00	☒ 06:00	☒ 07:00
☒ 08:00	☒ 09:00	☒ 10:00	☒ 11:00	☒ 12:00	☒ 13:00	☒ 14:00	☒ 15:00
☒ 16:00	☒ 17:00	☒ 18:00	☒ 19:00	☒ 20:00	☒ 21:00	☐ 22:00	☐ 23:00

[bei Solar.web registrieren ...](#)

Image 6. Settings — Night Mode

Activate logging during the night hours here.

The configuration has now been successfully completed.

4. Integrating the PV inverter into EMS

After you have configured the settings on the PV inverter, you can integrate it into EMS.

Prepare to install the EMS App by following these instructions:

- For the latest versions of EMS:
 - Navigate to the main menu item **Your Energy Journey** > **AppCenter**
 - Follow these instructions: [General Installation Manual for FEMS Apps](#).

After entering the key, you will see the following screen:

PV inverter

Alias* PV inverter

IP-Address* 192.168.178.85

IP address of the PV inverter.

Port* 502

Port of the PV inverter.

Modbus Unit-ID* 0

The Unit-ID of the Modbus device. Be aware, that according to the manual you need to add '123' to the value that you configured in the PV inverter web interface.

Phase All

Connected phase(s) of the inverter

INSTALL APP



Some of the input fields are pre-filled.

The alias is the name under which the PV inverter is displayed in EMS. You can choose any name you like, but it should be meaningful.

Required fields are marked with an *.

1. Check the IP address. You can find this either in the web interface of the respective PV inverter or in the list of devices registered on the router (e. g., Fritz!Box). If necessary, adjust the IP address so that they match.
2. The port should be set to **502** in accordance with the standard.
3. For the **Modbus Unit ID**, if a value has already been set in the PV inverter's web interface, **123 must be added to that value**. Enter this result as the Modbus Unit ID in EMS.
4. Finally, specify which phase(s) is/are connected to the PV inverter.

Complete the installation by selecting [**INSTALL APP**].

The integration of the PV inverter into EMS is now complete.

You will then find the integrated PV inverter as a submenu item under [Production in the Heckert Solar App](#).

5. Contact us

For support, please contact:

Symphon-E Service

Service phone: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

6. Directories

6.1. List of illustrations

[Image 1. LAN connected](#)

[Image 2. Ping test](#)

[Image 3. Modbus settings](#)

[Image 4. Ping test](#)

[Image 5. Modbus settings](#)

[Image 6. Settings — Night Mode](#)