

Fronius Hybrid and Solar Inverters: SYMO, PRIMO, TAURO, VERTO, GALVO, ECO – regular, GEN24, GEN24 plus

Connect your Fronius solar or hybrid inverter to the Reduxi Controller via Modbus over Ethernet.

🔌 Fronius inverter · Reduxi Controller

🌐 Modbus TCP (Ethernet)

🔌 Port 502 · inverter unit ID 1 (example)



Fronius Symo inverter

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1 Technical documentation and supported models

1.1 Supported models

The integration of Fronius solar and hybrid inverters with the Reduxi system uses Modbus communication via Ethernet. These models are supported:

- [Symo](#) – Fronius product page
- [Symo GEN24](#) – Fronius product page
- [Symo GEN24 Plus](#) – Fronius product page
- [Primo UL](#) – Fronius product page
- [Primo GEN24](#) – Fronius product page
- [Primo GEN24 Plus](#) – Fronius product page
- [Tauro](#) – Fronius product page
- [Verto](#) – Fronius product page
- [Eco](#) – Fronius product page

SnapInverter models are supported as well.



Tested models

The integration has been tested only on Symo GEN24 and Symo. If you have issues, contact our helpdesk.



Fronius Symo



Fronius GEN24

1.2 Fronius manuals

Follow the original Fronius documentation. More information about the Fronius inverters is on the [Fronius GEN24 Plus page](#).

- [Fronius operating instructions: network connection](#) – Setting up the LAN or WLAN connection
- [Fronius operating instructions: Modbus](#) – Modbus settings of the inverter
- [Video: Solar.start app](#) – Installation steps in the app
- [Video: network configuration](#) – Connect the inverter to your network

2 Required equipment

You need the following:

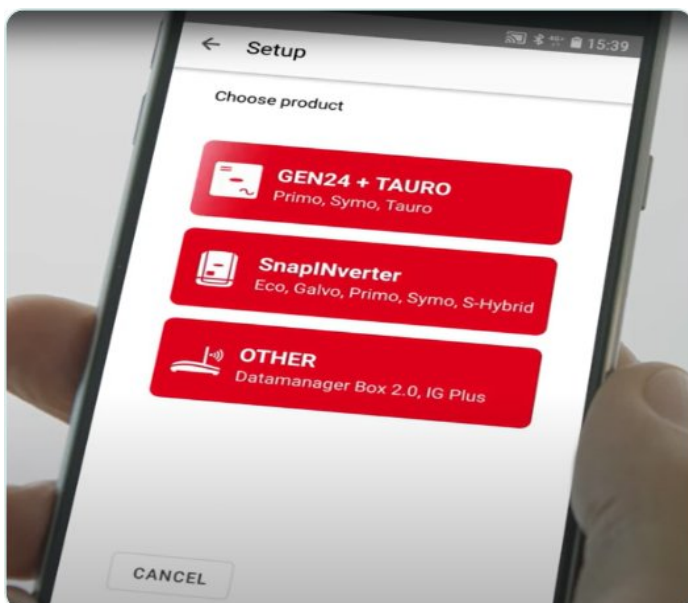
- ☐ Fronius solar or hybrid inverter
- ☐ Reduxi Controller
- ☐ Network connection (LAN or Wi-Fi) for the inverter and for the Reduxi Controller
- ☐ Smartphone with the Fronius Solar.start app, or a device that connects to the hotspot of the inverter
- ☐ Admin password of the inverter (see [Point 3](#), Point 3.4, if you lost it)
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Configure the Fronius inverter

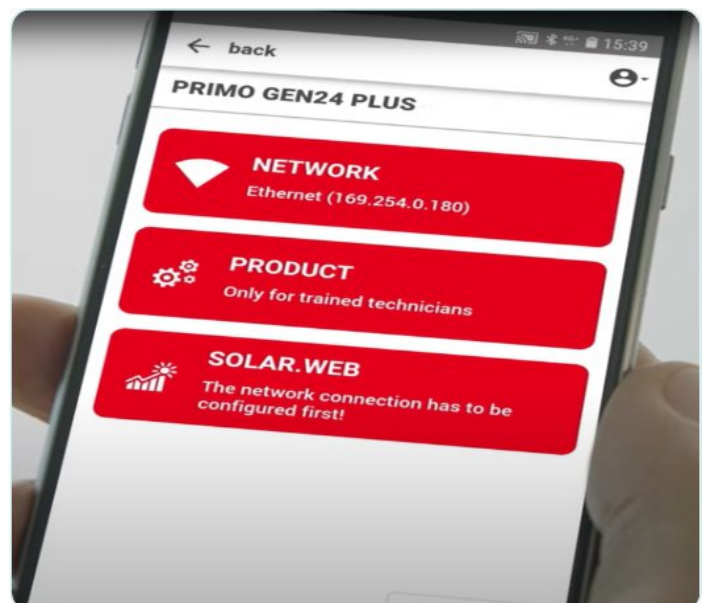
The network and Modbus settings connect the Fronius inverter to the Reduxi environment.

3.1 Install the Solar.start application

Install the Fronius Solar.start app from [Google Play](#) or the [App Store](#). The app guides you through the installation steps. For more details, watch the [Solar.start video](#).



Choose the product



Menu of the app

3.2 Configure the network

Use the app or connect directly to the hotspot of the Fronius inverter. For more details, watch the [network configuration video](#) and read the [Fronius manual](#).

LAN:



Establishing a connection:

- 1 Enter the host name.
- 2 Select the connection type: **Automatic** or **Static**.
- 3 For the **Static** connection type, enter the IP address, subnet mask, DNS, and gateway.
- 4 Click the **Connect** button.

✓ The connection is established.

After connecting, the status of the connection should be checked (refer to the chapter headed [Internet services](#) on page (→)).

Connection via LAN

Selecting and connecting to a WLAN network:

The networks found are displayed in the list. Clicking on the Refresh button will  perform a new search for available WLAN networks. The selection list can be limited further via the **Search network** input field.

- 1 Select network from the list.
- 2 Select the connection type: **Automatic** or **Static**.
- 3 For the **Automatic** connection type, enter the WLAN password and host name.
- 4 For the **Static** connection type, enter the IP address, subnet mask, DNS, and gateway.
- 5 Click the **Connect** button.

✓ The connection is established.

After connecting, the status of the connection should be checked (refer to the chapter headed [Internet services](#) on page (→)).

Connection via WLAN



Write down the IP address

Check the connection and write down the IP address of the inverter. You need it later when you configure Reduxi.

3.3 Log in with the admin password

On some inverters you need the **admin password** to change the Modbus settings. Log in with it first.

Login

admin

▼

Password

☐ Keep me logged in

Login

[Forgot password?](#)

Login as **admin**

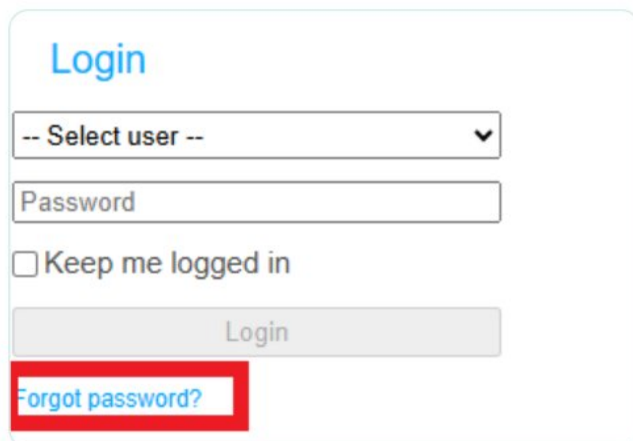
3.4 Reset a lost admin password

If you lost the admin password, request a new one in the Solar.web portal:

1

Request the PIN on the inverter

Click **Forgot password** under the login button. Select **admin**. The page shows a **6-digit PIN**. Write it down.



The screenshot shows the 'Login' interface. At the top is the title 'Login'. Below it is a dropdown menu labeled '-- Select user --' with a downward arrow. Underneath is a text input field labeled 'Password'. Below the password field is a checkbox labeled 'Keep me logged in'. At the bottom of the form is a grey button labeled 'Login'. Below the 'Login' button, the text 'Forgot password?' is highlighted with a red rectangular box.

1. Forgot password



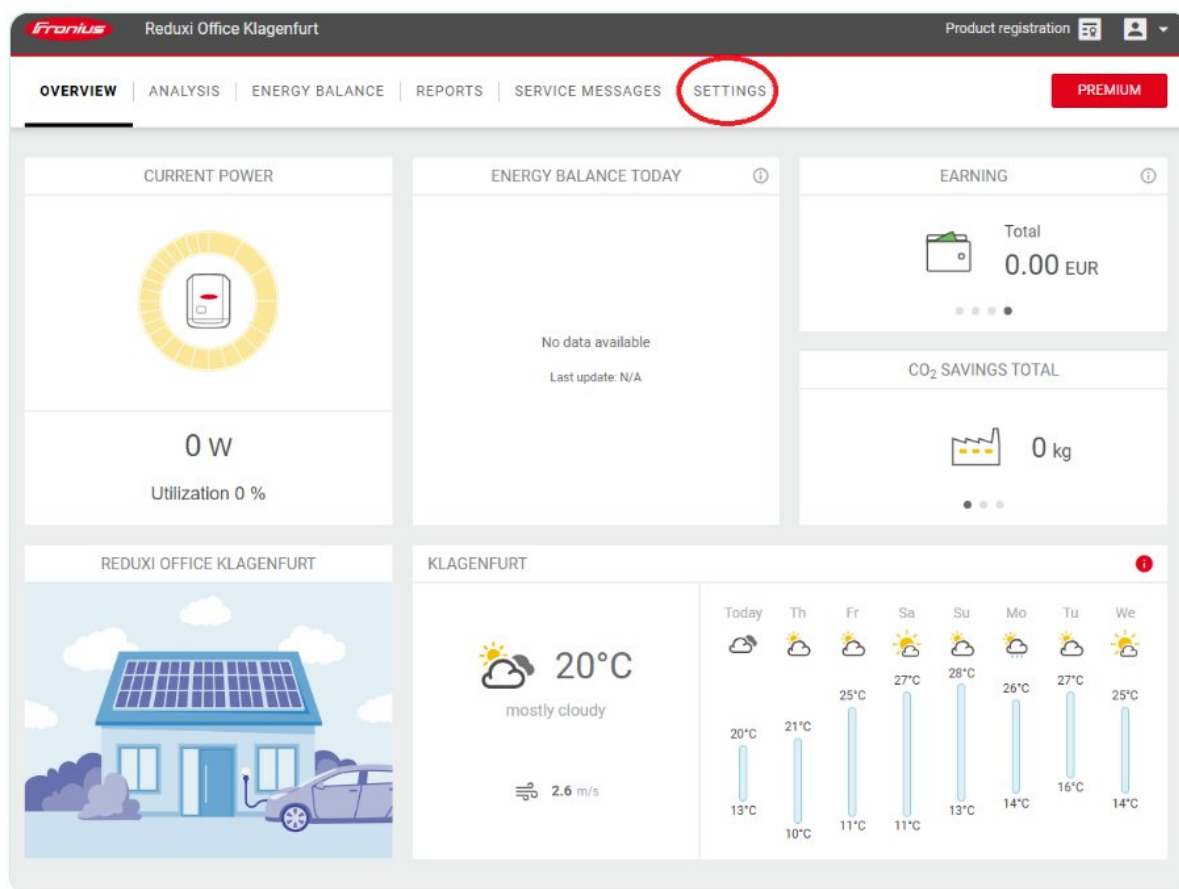
The screenshot shows the 'Forgot password' interface. At the top is the title 'Forgot password'. Below it is the instruction 'Choose a user for which you want to reset the password'. Underneath is a dropdown menu with 'admin' selected. Below the dropdown is the text 'The pin for resetting the password is' followed by the PIN '567484', which is circled in red. Below this is a paragraph: 'System owners may reset the admin password themselves in Solar.web under Settings-Components. For all other passwords please contact the Fronius TechSupport, there you will receive your recovery key.' Below the paragraph are three text input fields labeled 'Recovery key', 'Password', and 'Repeat password'. At the bottom of the form is a grey button labeled 'Save' and a blue link labeled 'Cancel'.

2. The PIN

2

Open the settings in Solar.web

Go to **Settings** in the Solar.web portal.

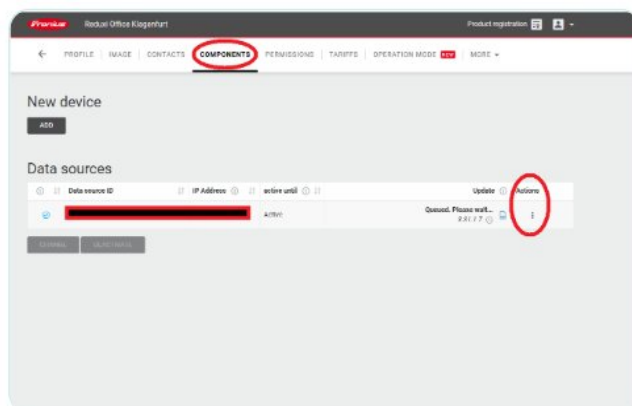


Solar.web: **Settings**

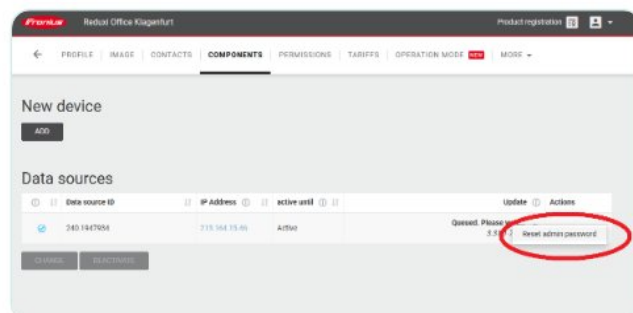
3

Reset the admin password

Open **Components**. On the right side of the data manager, click the three dots and select **Reset admin password**.



1. **Components**



2. **Reset admin password**

4

Enter the PIN

Enter the 6-digit PIN from the inverter login page and generate the recovery key.

Enter the PIN

5

Enter the recovery key on the inverter

Copy the recovery key. Enter it on the login page of the inverter, choose a password, confirm it and save.

1. Copy the key

Forgot password

Choose a user for which you want to reset the password

admin

The pin for resetting the password is

567484

System owners may reset the admin password themselves in Solar.web under Settings-Components. For all other passwords please contact the Fronius TechSupport, there you will receive your recovery key.

MCECDwCIKgSAB8J2VaDA9523xgIOHyjFTDH0F6XJDK

Password

Repeat password

Save

Cancel

2. Enter key and new password

3.5 Configure Modbus

The Fronius inverter must support Modbus control. Log in with the new password and open the Fronius web interface or app. Set the Modbus settings as shown below.

GEN24 / Verto / Tauro:

The screenshot shows the 'Modbus' configuration page in the Fronius web interface. On the left is a navigation menu with options: Communication, Network, Modbus (selected), Cloud control, Solar API, Solar.web, and Internet Services. The main content area is titled 'Modbus' and contains the following settings:

- Modbus 0 (M0) RTU:** Radio buttons for Modbus Client (selected), Modbus Server, and Disabled.
- Modbus 1 (M1) RTU:** Radio buttons for Modbus Client (selected), Modbus Server, and Disabled.
- Control secondary inverter via Modbus TCP:** A toggle switch labeled 'Activate' which is turned on.
- Modbus Port *:** A text input field containing '502'.
- SunSpec Model Type *:** A dropdown menu showing 'float'.
- Meter Address *:** A text input field containing '200'.
- Allow Control:** A toggle switch which is turned on.
- Restrict Control:** A toggle switch which is turned off.

Modbus settings for GEN24, Verto and Tauro

SnapINverter:

The screenshot shows the 'Modbus' configuration page in the Fronius SnapINverter web interface. On the left is a navigation menu with options: GENERAL, PASSWORDS, NETWORK, FRONIUS SOLAR WEB, IO MAPPING, LOAD MANAGEMENT, PUSH SERVICE, MODBUS (selected), INVERTERS, FRONIUS SENSOR CARDS, METER, and DNO EDITOR. The main content area is titled 'Modbus' and contains the following settings:

- Data export via Modbus:** Radio buttons for off, tcp (selected), and rtu.
- Modbus port:** A text input field containing '502'.
- String control address offset:** A text input field containing '101'.
- Sunspec Model Type:** Radio buttons for float (selected), int, and SF.
- Demo mode:** A checkbox which is unchecked.
- Inverter control via Modbus:** A checkbox which is checked.
- Restrict the control:** A checkbox which is unchecked.
- Controlling priorities:** A list with three items: 1. Controlling via Modbus, 2. IO control, and 3. Dynamic power reduction.
- Legend:** A list with three items: 1 ... highest priority, 2 ... medium priority, and 3 ... lowest priority.
- Note:** a change of control priorities is possible only in the DNO editor with the service password.

Modbus settings for SnapINverter

For more details, see the [Fronius manual](#).



Write down port and address

Write down the Modbus port and the unit ID. You need them later in Reduxi.

4 Log in to the Reduxi web interface

You can open the Reduxi web interface in two ways:



Reduxi app

Via tunnel connection · works from anywhere

REMOTE



Web browser

In the local network · via IP address or reduxि.local

4.1 Via the Reduxi app

1 Open the app and log in

Launch the Reduxi app on your smartphone or tablet and log in with your credentials.

2 Open Reduxi devices

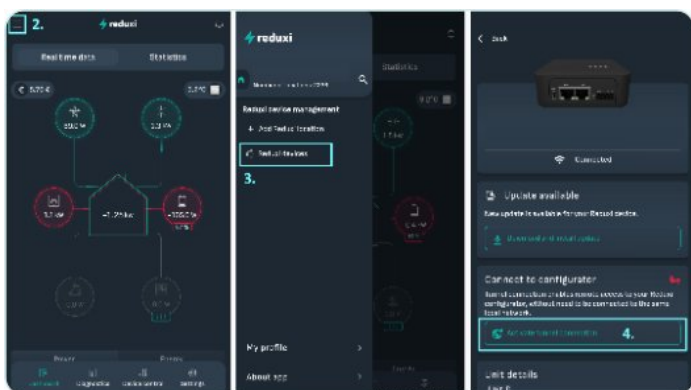
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

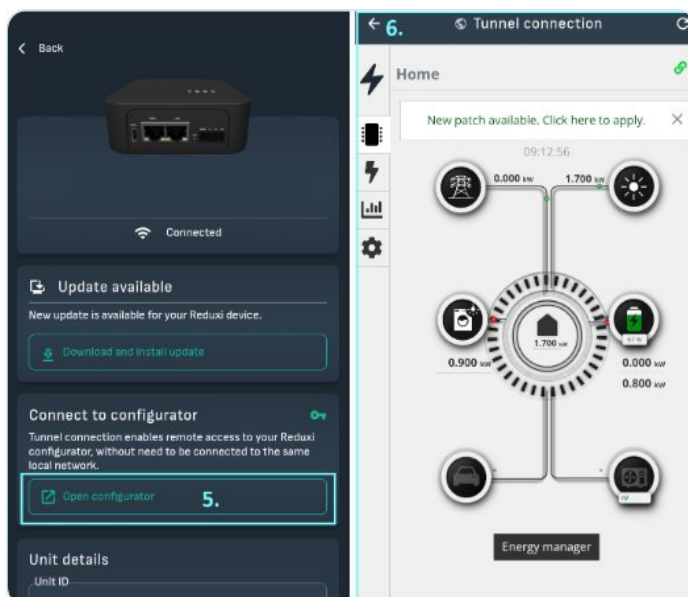
Switch on the tunnel connection and wait a moment until it is active.

4 Open the configurator

Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)



Open configurator (step 4)

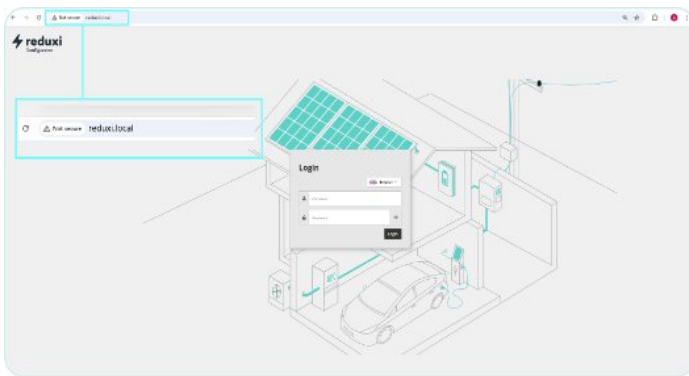
4.2 Via a web browser

1 Open the login page

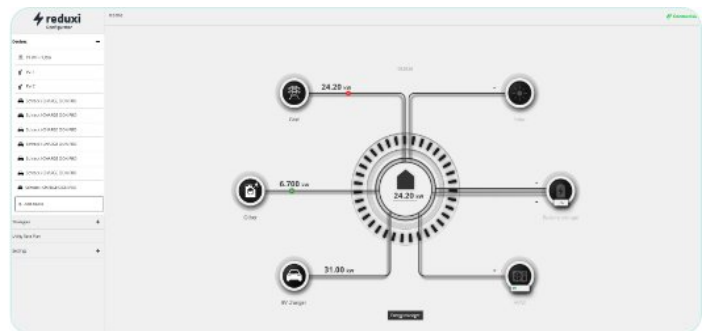
On a device in the same network, open a web browser and enter the controller's IP address or `http://reduxi.local`. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

Username: `admin` · Password: `admin` (factory default)



Reduxi Controller login screen



Controller web interface after login

5 Add the Fronius inverter to Reduxi

Use these steps to add a new Fronius inverter or to edit an existing one. The general procedure is in section 7 "Devices" of the [Reduxi Configurator](#) article.

5.1 Basic settings

Log in to the Reduxi Configurator (see [Point 4](#)), click **+ Add device** and select the basic parameters:

- Device type: the matching type, for example `Solar power plant`, `Battery` or hybrid inverter
- Type: the specific model, for example `Symo`
- Name: a name of your choice

Click **Next**.

5.2 Communication settings

Enter the IP address, the port and the Modbus unit IDs you configured in [Point 3](#). The example below shows the values:

PARAMETER	EXAMPLE VALUE
Connection	TCP/IP
IP	192.168.1.123 : the IP address of your inverter
Port	502
Modbus unit ID of inverter	1
Modbus unit ID of energy meter	200

Communication channel and device configuration

Connection *

TCP/IP

IP *

192.168.1.123

Port *

502

Modbus unit ID of inverter *

1

Modbus unit ID of energy meter *

200

Back

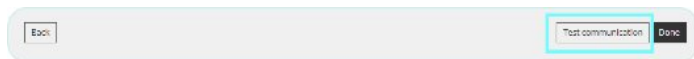
Test communication

Next

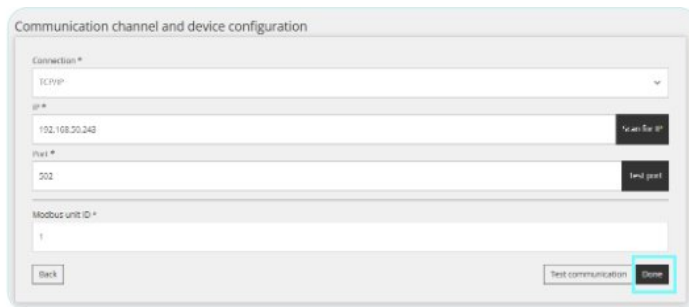
Communication settings (example)

5.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Fronius inverter once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



The **Test communication** button

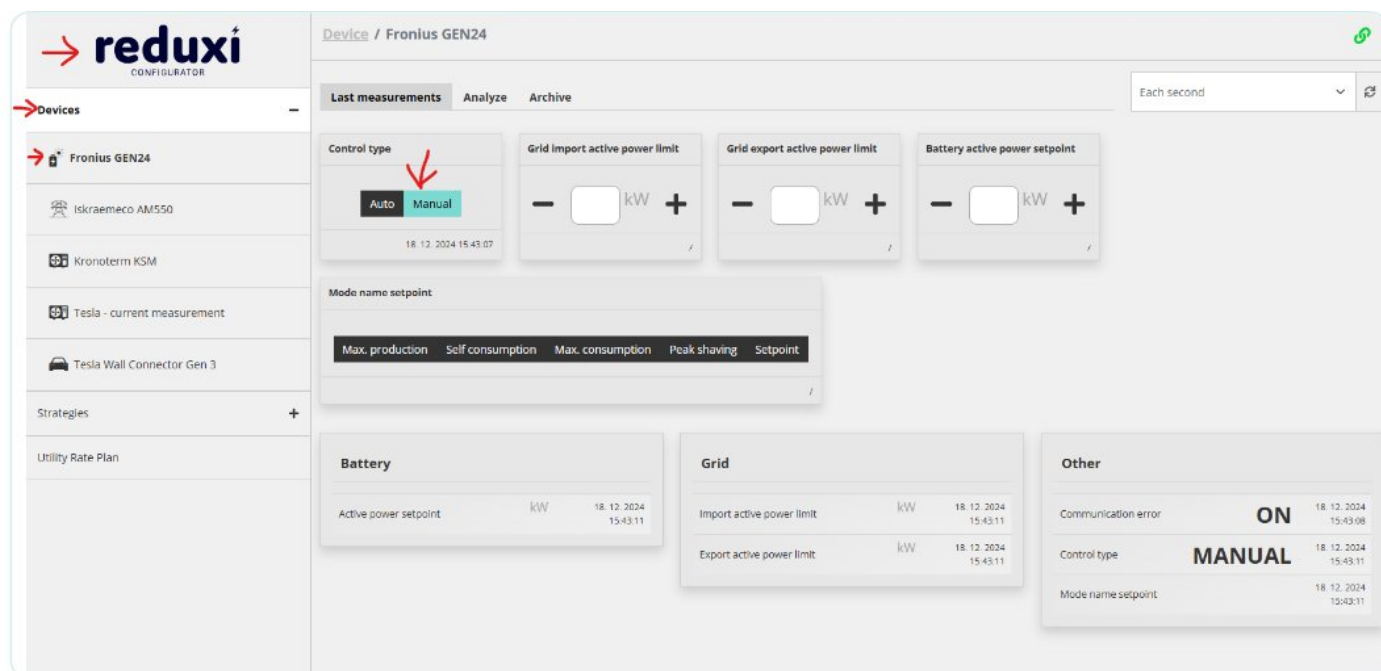


The **Done** button

6 Check the readings

6.1 Test with manual setpoints

Test the function with manually defined setpoints. Open **Reduxi – Devices – Fronius** and select **Manual** mode. Try different setpoints and watch how the inverter responds.



Fronius inverter in manual mode

6.2 Automatic control

When everything works, define strategies, connect to the cloud application and use automatic control. See [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Check the supported models and the Fronius manuals. Prepare the inverter, the network and a laptop or tablet.

Fronius inverter (Point 3): Install Solar.start, configure the network, note the IP address, get the admin password and set up Modbus. Note port and unit ID.

Add to Reduxi (Points 4–5): Log in to the Reduxi web interface, click + Add device, enter IP, port and unit IDs and click Test communication. Click Done.

Go live (Point 6): Test with manual setpoints. Then define strategies and switch to automatic control.

→ Common issues

ISSUE	SOLUTION
Modbus settings cannot be changed	Log in with the admin password. If you lost it, reset it as described in Point 3 , Point 3.4.
Test communication fails	Check the IP address of the inverter, the port and the Modbus unit IDs. Compare them with the Modbus settings of the inverter (Point 3 , Point 3.5).
Open configurator does not open or stays empty	The tunnel is not active yet. Wait about 30 seconds and check that the controller is online.
Login with <code>admin</code> is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
<code>reduxi.local</code> does not load	Your device is not in the same network as the controller. Use the IP address or the tunnel connection.
Communication test fails, device shows offline	Check reachability, IP address / port / unit ID, and that the protocol is enabled on the device.

→ Related articles

Matching guides from the Reduxi knowledge base:



Fronius manuals

Original Fronius documentation for network and Modbus settings.



Device setup guides

All step-by-step guides for connecting devices to the Reduxi Controller



List of supported devices

All devices that work with the Reduxi Controller



Strategies for the Reduxi Controller

Energy manager and other strategies explained