

How to connect SunSpec solar power plant with Reduxi controller

Add a SunSpec solar power plant to the Reduxi Controller and read its values in the Reduxi Configurator.

🔧 SunSpec solar power plant · Reduxi Controller

📖 Modbus unit ID: normally 1 🖥️ Reduxi Configurator

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1 Technical documentation

Find the instructions to connect and configure the device on the SunSpec web page. Contact SunSpec for the member login. You can also search directly for PDF documents.

- [SunSpec Alliance: member portal login](#) – SunSpec documentation (member login required)
- [Google search: solar panel SunSpec documentation](#) – Direct search for PDF documents

2 Required equipment

You need:

- ☐ Reduxi Controller
- ☐ Solar inverter with SunSpec support, connected and configured as described in the documentation (see [Point 1](#))
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 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 `reduxi.local`

3.1 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

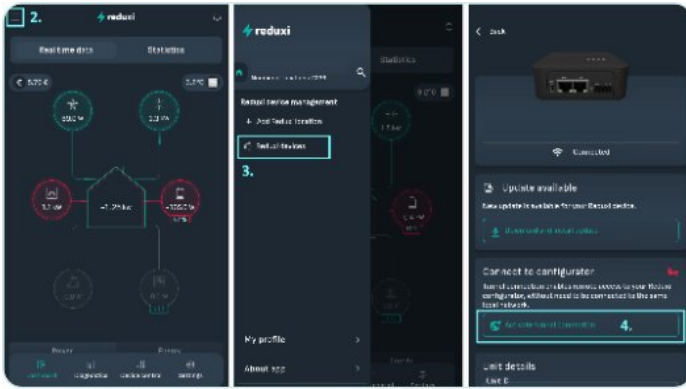
Activate the tunnel connection

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

4

Open the configurator

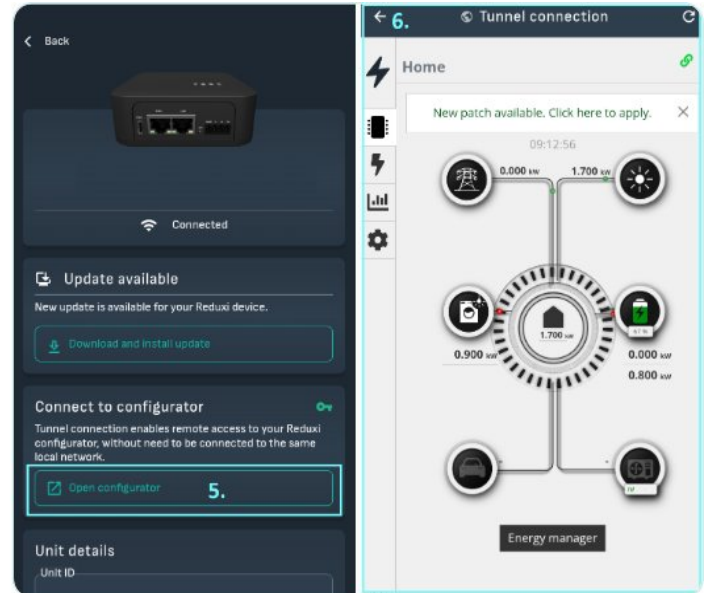
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

Text description of this image

Screenshot of three Reduxi mobile app screens side by side, with cyan boxes and number badges 2 to 4. Left screen (dashboard, dark theme): menu icon at top left marked with a box and badge 2; 'reduxi' logo; tabs 'Real time data' (active) and 'Statistics'; price 5.79



Open configurator (step 4)

Text description of this image

Screenshot of the Reduxi mobile app showing the 'Unit details' screen and the 'Tunnel connection' screen.

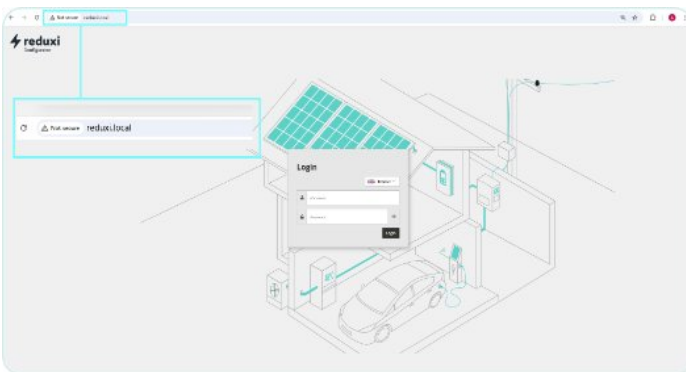
3.2 Via a web browser

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**.

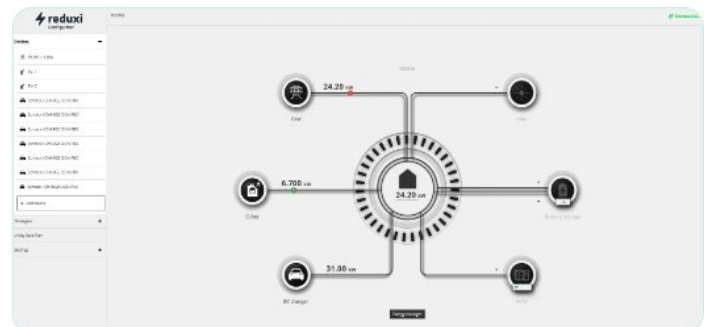
2 Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

4 Add the solar power plant to Reduxi

Use these steps to add a new device or to edit an existing one.

4.1 Basic settings

Log in to the [Reduxi Configurator](#) (see [Point 3](#)), click **+ Add device** and enter the basic settings of the device.

4.2 Communication settings

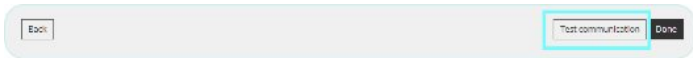
Select the communication channel and enter the device configuration:

PARAMETER	VALUE
Modbus unit ID	Normally 1 is used

Then enter and choose the advanced settings.

4.3 Test communication

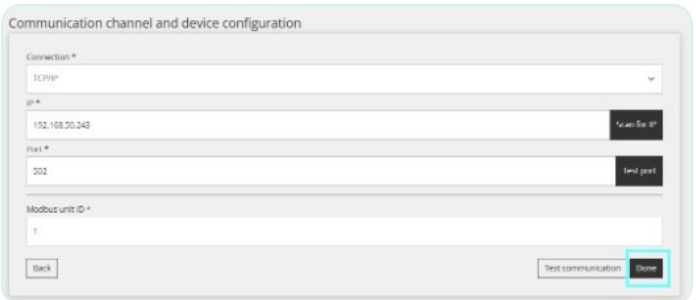
Click **Test communication** at the bottom of the wizard. It reads the SunSpec device once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



The *Test communication* button

Text description of this image

Screenshot of the bottom button bar of a Reduxi Configurator page. Left: button 'Back'. Right: button 'Test communication' (marked with a cyan box) and dark button 'Done'.



The *Done* button

2. Text description of this image

5 Check the readings

5.1 Last measurements

After communication is established, check the values under **Devices** in the Reduxi Configurator as an additional test.

5.2 Strategies

To reduce energy costs with dynamic prices and dynamic tariffs, define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Open the SunSpec documentation. Connect and configure the device. Prepare the Reduxi Controller and a laptop or tablet.

Log in (Point 3): Log in to the Reduxi web interface of the controller.

Add to Reduxi (Point 4): Click + Add device, enter the basic settings, select the communication channel, enter the Modbus unit ID (normally 1) and the advanced settings. Test the communication and press Done.

Go live (Point 5): Check the last measurements and define a strategy.

→ Common issues

ISSUE	SOLUTION
Modbus unit ID unknown	Normally 1 is used. Check the device settings in the manufacturer documentation.
No access to SunSpec documents	The SunSpec portal needs a member login. Contact SunSpec for access.
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 admin is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
reduxi.local 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:



SunSpec Alliance

The SunSpec Alliance develops open standards for interoperable energy systems.



Device setup guides

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



Strategies for the Reduxi Controller

Energy manager and other strategies explained