

How to connect SunSpec battery with Reduxi controller

Connect a battery with a SunSpec Modbus interface to the Reduxi Controller.

🔌 Battery with SunSpec Modbus interface · Reduxi Controller

🌐 Modbus 📄 Modbus unit ID: normally 1

📄 IN THIS ARTICLE

1. Technical documentation
2. Required equipment
3. Log in to the Reduxi web interface
 - Via the Reduxi app
 - Via a web browser
4. Add the battery to Reduxi
 - Basic settings
 - Communication settings
 - Test communication
5. Check the readings
6. Summary
7. Common issues
8. Related articles

1 Technical documentation

Instructions for your battery are on the SunSpec web page. For member access, contact SunSpec. Specifications are public.

- [SunSpec member login](#) – Manufacturer instructions. Contact SunSpec for a member login.
- [SunSpec Energy Storage Models \(PDF\)](#) – Battery models 802 to 809. Model 802 is the base model for all SunSpec battery devices.
- [SunSpec Modbus Fact Sheet \(PDF\)](#) – Short overview of the SunSpec Modbus interface.
- [SunSpec specifications](#) – Information models and conformance test procedures.

2 Required equipment

- ☐ Battery with a SunSpec Modbus interface
- ☐ Reduxi Controller
- ☐ Connection between battery and controller as described in the manual of the battery
- ☐ 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:



REMOTE

Reduxi app

Via tunnel connection · works from anywhere



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

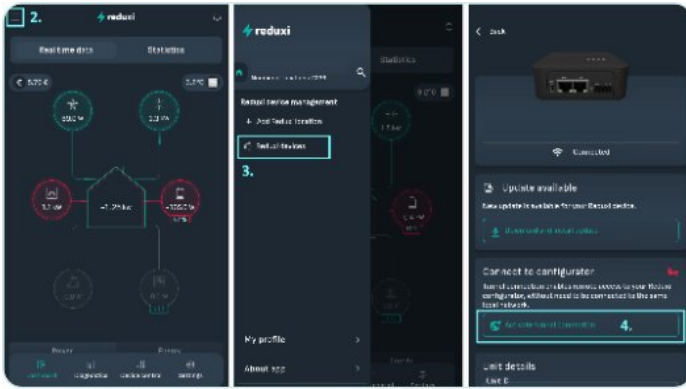
Activate the tunnel connection

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

4

Open the configurator

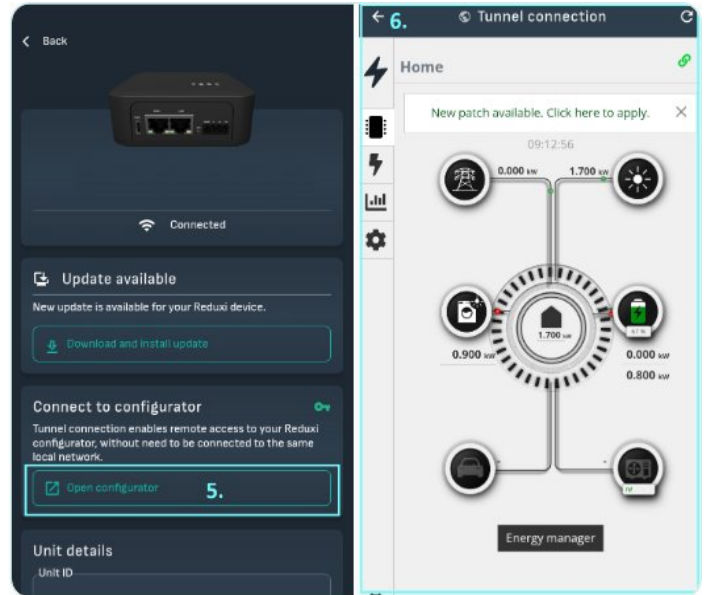
Tap **Open configurator**. The Reduxi web interface opens.



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 'Tunnel connection' screen. The screen displays a 'New patch available. Click here to apply.' message, a 'Home' button, and a 'New patch available. Click here to apply.' message. The screen also shows a 'Unit details' section with a 'Unit ID' field.

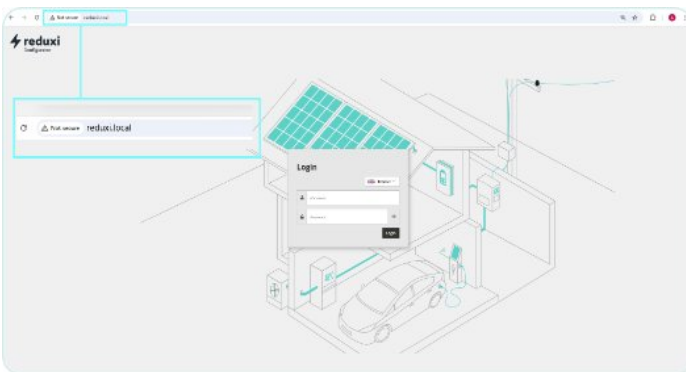
3.2 Via a web browser

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**.

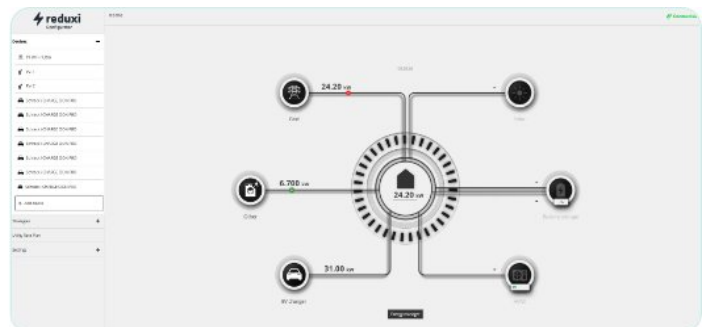
2 Log in

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 battery to Reduxi

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

4.1 Basic settings

Log in to the [Reduxi Configurator via the browser](#) (see [Point 3](#)). Click **+ Add device**.

Enter the basic settings of the battery.

4.2 Communication settings

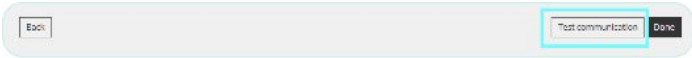
Select the communication channel of the battery. Then enter the device configuration:

PARAMETER	VALUE
Modbus unit ID	Normally 1

Enter and choose the advanced settings.

4.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the battery 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 of the battery under **Devices** in the Reduxi Configurator.

5.2 Enable control by Reduxi

For control by Reduxi, set the **control type** of the battery to **AUTO** under **Devices**. Only then do strategy commands affect the battery.

Define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Find the SunSpec documentation. Prepare the battery, the controller and the connection.

Log in (Point 3): Log in to the Reduxi Configurator on the controller.

Add to Reduxi (Point 4): Add the battery with basic, communication and advanced settings. Run Test communication, then click Done.

Go live (Point 5): Check the last measurements. Set the control type to AUTO.

→ Common issues

ISSUE	SOLUTION
Wrong Modbus unit ID	Normally the unit ID is 1. Check the unit ID of the battery in its manual.
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:



SunSpec specifications

SunSpec Modbus information models and fact sheets.



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