

How to connect Tesla Backup Gateway site meter with Reduxi controller

Connect the site meter of the Tesla Backup Gateway to the Reduxi Controller.

🔧 Tesla Backup Gateway · Reduxi Controller

📊 Site meter (energy meter)

🔑 Username and password of the Gateway



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1 Technical documentation

Find the instructions to connect and configure the Backup Gateway on the manufacturer web page.

- [Tesla Energy support](#) – Support pages of the manufacturer.
- [Connecting to Tesla Gateway](#) – How the Gateway and Powerwall connect to the network.
- [About Energy Metering](#) – Tesla Energy Library: site and solar metering in the Backup Gateway 2 installation manual.
- [Site and Solar Metering for Backup Gateway 2](#) – Tesla Energy Library: which meters measure the site.

2 Required equipment

- ☐ Tesla Backup Gateway with the site meter
- ☐ Reduxi Controller
- ☐ IP address of the Gateway in the local network
- ☐ Username and password of the Gateway (see [How to add Battery Tesla Backup Gateway](#))
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Site meter of the Backup Gateway

The Reduxi Controller reads the site meter of the Tesla Backup Gateway. The site meter shows the net power flow to and from the site from the grid's perspective.

- The site meter is installed upstream of all solar production, Powerwalls and loads.
- The Internal Primary Meter (Meter X) of the Gateway 2 measures site consumption when the grid connection is at the Supply terminals.
- If loads or solar are upstream of the Supply terminals, a Neurio Remote Energy Meter can meter the grid connection point instead.

Source: Tesla Energy Library, Backup Gateway 2 installation manual.

4 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`

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

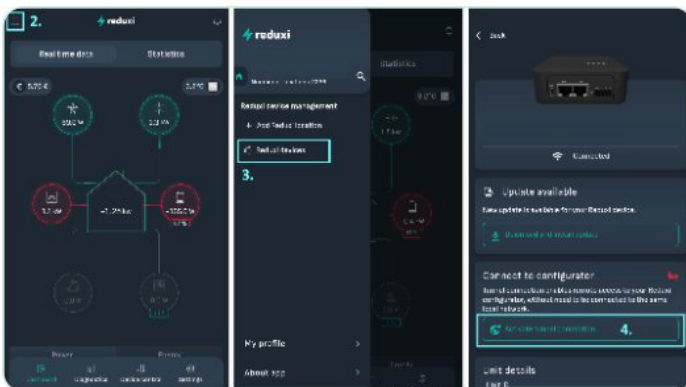
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

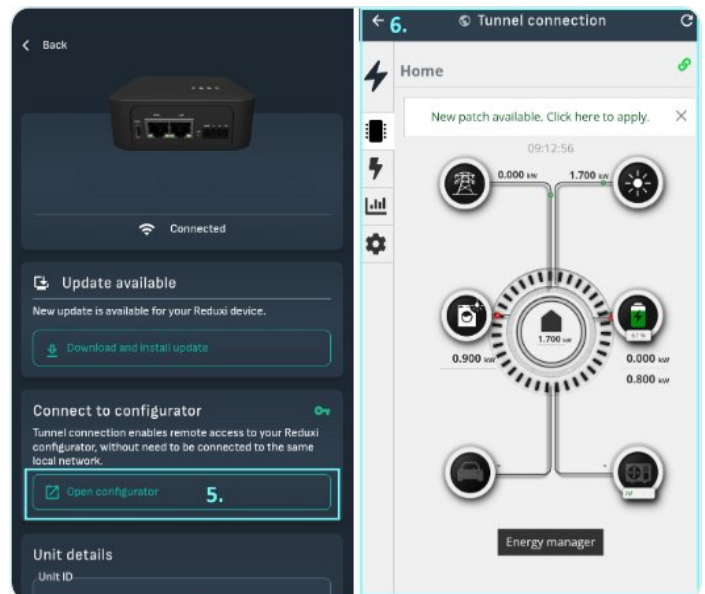
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

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)

2. Text description of this image

4.2 Via a web browser

1 Open the login page

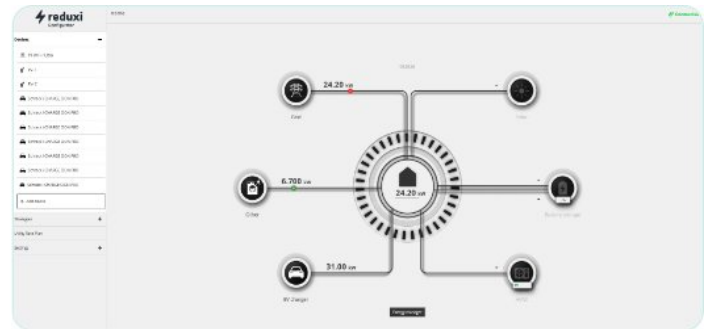
On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

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

5 Add the site meter to Reduxi

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

5.1 Basic settings

Log in to the [Reduxi Configurator via the browser](#) (see [Point 4](#)). Click **+ Add device**.

In the first step, enter the basic settings of the device: device type, type and a name of your choice.

5.2 Communication settings

Select the communication channel. Then enter the device configuration:

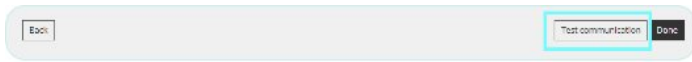
PARAMETER	VALUE
IP	IP address of the Tesla Gateway (see How to add Battery Tesla Backup Gateway)
Username and password	See How to add Battery Tesla Backup Gateway . There, Tesla names the email of your Tesla account as the username. For the first sign-in, the password is the last five characters of the Gateway password.

5.3 Advanced settings

Enter and choose the advanced settings.

5.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Tesla Backup Gateway site meter 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

Communication channel and device configuration

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices** in the Reduxi Configurator.

6.2 Enable control by Reduxi

Set the **control type** of the device as required. For strategies, see [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Find the Tesla documentation. Prepare the Gateway IP address, the login data and the Reduxi Controller.

Backup Gateway (Point 3): The site meter shows the net power flow to and from the site. It sits upstream of solar, Powerwalls and loads.

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, add the energy meter, enter IP, username and password, and test communication.

Go live (Point 6): Check the readings and set the control type.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the IP address, the username and the password of the Gateway. See How to add Battery Tesla Backup Gateway.
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:



How to add Battery Tesla Backup Gateway

Connect the battery of the Tesla Backup Gateway to the Reduxi Controller.



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