

How to connect Kaco solar power plant with Reduxi controller

Connect your KACO inverter to the Reduxi Controller via Modbus.

🔌 KACO inverter · Reduxi Controller 🌐 Modbus

📖 Unit address: normally 1



KACO blueplanet string inverter (manufacturer image)

Text description of this image

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1 Technical documentation

Manufacturer pages and manuals:

- [KACO new energy downloads](#) – Manuals and technical documentation of the manufacturer
- [KACO string and hybrid inverters](#) – Product overview of the manufacturer

2 Required equipment

You need:

- ☐ Reduxi Controller
- ☐ KACO inverter
- ☐ Communication connection between the Reduxi Controller and the inverter, as described by KACO (see [Point 1](#))
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Connect and configure the inverter

3.1 Connect and configure on the KACO side

Find the instructions to connect and configure the inverter on the manufacturer web page:

<https://kaco-newenergy.com/downloads>

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 `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

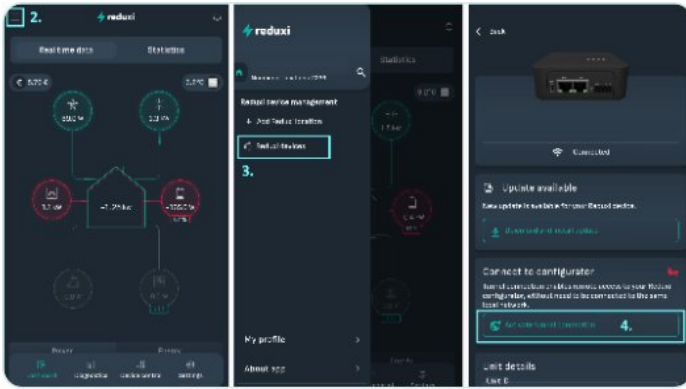
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

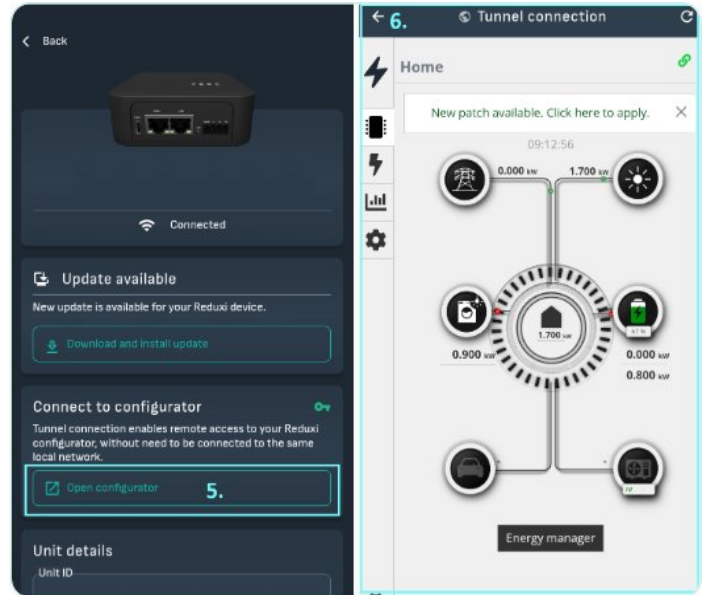
Tap **Open configurator**. The Reduxi web interface opens.



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)

Text description of this image

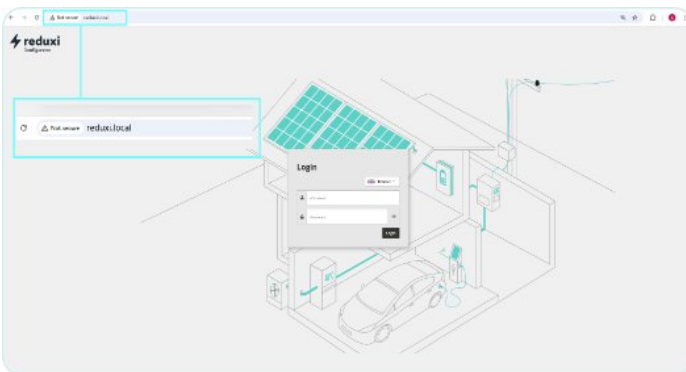
4.2 Via a web browser

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**.

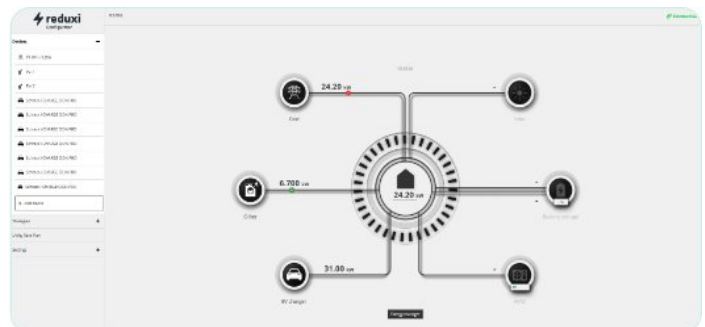
2 Log in

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

5 Add the KACO inverter to Reduxi

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

5.1 Basic settings

Log in to the [Reduxi Configurator](#) (see [Point 4](#)) and click **+ Add device**. Then enter the basic settings:

- Device type: **Solar Power Plant**
- Type: **Kaco**
- Name: a name of your choice, for example **Kaco**

Click **Next**.

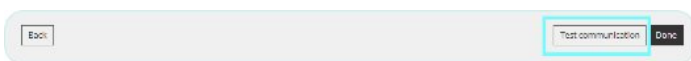
5.2 Communication settings

Select the communication channel and enter the device configuration:

PARAMETER	VALUE
Communication channel	The channel you use to connect the inverter (see Point 2)
Unit address	Normally 1
Advanced settings	Enter and choose the advanced settings as needed

5.3 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Kaco inverter 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

6 Check the readings

6.1 Last measurements

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

The List of supported devices shows the Kaco solar power plant as **Read**. Reduxi reads the values of the inverter.

✓ Summary

Preparation (Points 1–2): Check the KACO documentation and prepare the equipment.

KACO inverter (Point 3): Connect and configure the inverter as described by the manufacturer.

Plant	Kaco	Solar Power
		1)

run **Test communication** and click **Done**.

Go live (Point 6): Check the last measurements.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check that the unit address matches the inverter. It is normally 1 . Check that the communication connection to the inverter is set up as described by KACO.
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:



KACO new energy downloads

Manuals and technical documentation of the manufacturer



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