

Reduxi meets my-PV: AC•THOR, AC•THOR 9s and AC ELWA 2

Integrate my-PV power controllers and heating rods into the Reduxi Controller via Modbus TCP – so PV surplus automatically goes into hot water and heating.

🕒 approx. 15–20 min

🔌 Reduxi Controller · my-PV AC•THOR / AC•THOR 9s / AC ELWA 2

🌐 Modbus TCP (LAN / Wi-Fi via router)

📡 Up to 250 my-PV devices per controller



my-PV AC ELWA 2, AC•THOR and AC•THOR 9s with heating rods

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1 Technical documentation

Before commissioning, read the installation instructions supplied with the device and the current my-PV operating manual:

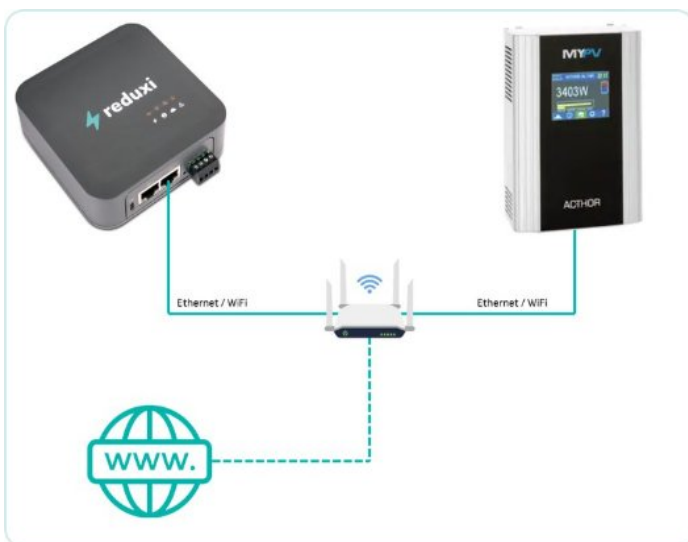
- [AC•THOR / AC•THOR 9s – operating manual \(PDF, EN\)](#)
- [AC ELWA 2 – online manual \(EN\)](#)
- [my-PV downloads – data sheets, installation instructions, wiring diagrams](#)

2 Required equipment

- ☐ **Reduxi Controller** – [Stand Alone](#) or [DIN rail](#)
- ☐ **Grid measurement** at the grid connection point: if a PV inverter is connected to Reduxi and its smart meter is read via the inverter, **no additional meter** is needed. If the my-PV device is the only device on the Reduxi Controller, install an energy meter or smart meter – see the [list of supported devices](#)
- ☐ **my-PV AC•THOR, AC•THOR 9s or AC ELWA 2** with the latest firmware
- ☐ **Network connection** (LAN or Wi-Fi) – my-PV device and Reduxi Controller in the same network, connected via a router
- ☐ Laptop, tablet or smartphone with internet access

3 System overview

The AC•THOR or AC ELWA 2 and the Reduxi Controller are connected to the same network via a router. Over this network, the Reduxi Controller tells the my-PV device via Modbus TCP how much power to consume – for example the current PV surplus.

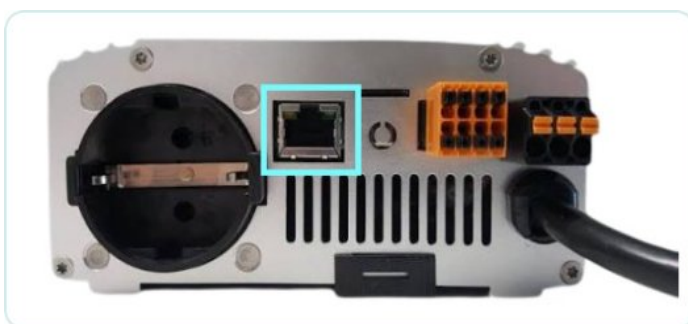


AC•THOR / AC•THOR 9s via router

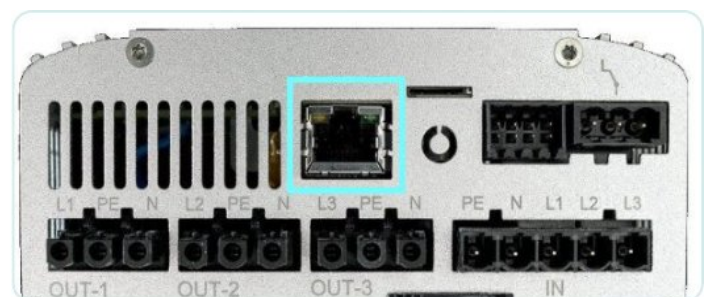


AC ELWA 2 via router

Connect the my-PV device to the router with a network cable or via Wi-Fi. The LAN port (marked) is on the underside of the device:



AC•THOR



AC•THOR 9s



AC ELWA 2



Do not also connect the my-PV device directly to the inverter or battery system

The my-PV device is controlled exclusively by the Reduxi Controller. Additional direct control by an inverter or battery system leads to conflicting setpoints.



Up to 250 devices

In theory, one Reduxi Controller can control up to 250 my-PV devices.

4 Configure the my-PV device

Prepare the my-PV device first. Then continue with [Point 5](#).

4.1 Set the control type to "Modbus TCP"

The photos show an AC•THOR 9s with the display language set to German – the menu items are in the same place in other languages.

1

Open the setup menu

On the home screen, tap the **gear icon** at the bottom.

2

Open "Steuerung" (Control)

Use the arrow keys to page to **Setup 5/10** and tap **Steuerung** (Control).

3

Select Modbus TCP

Use the arrow keys to page to **Steuerung 9/15** and tap **Modbus TCP**. The selected entry is highlighted in green.



1 – Home screen: tap the gear icon



2 – Setup 5/10: Steuerung (Control)



3 – Steuerung 9/15: Modbus TCP selected



Alternative: my-PV web interface

The same setting can also be made in the my-PV web interface. Setting it on the display is usually quicker, because you are at the device anyway and do not need its IP address yet.

4.2 Assign a fixed IP address

The IP address of the AC•THOR or AC ELWA 2 must be **static**. Otherwise the Reduxi Controller loses the connection as soon as the router assigns a new address. There are two ways to do this:

- **Recommended – DHCP reservation in the router:** leave the my-PV device on DHCP and reserve its current IP address in the router.
- **Static IP on the device:** on the display, page to **Setup 3/10**, set **IP DHCP/statisch** to static and enter **IP Adresse** (IP address), **Subnetz Maske** (subnet mask) and **Gateway Adresse** (gateway address). Choose an address outside the router's DHCP range.



Setup 3/10 – network settings on the display



Note down the IP address

You will need it in [Point 6.2](#).

5 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`



5.1 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

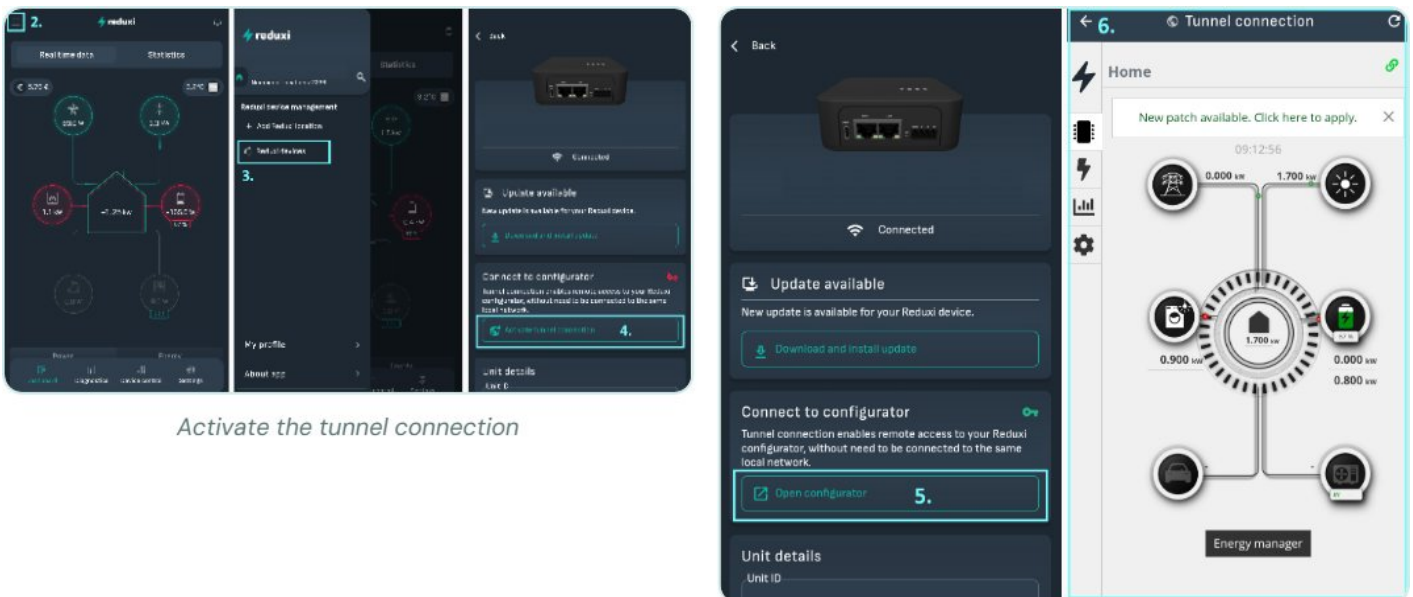
Activate the tunnel connection

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

Open configurator

5.2 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**.

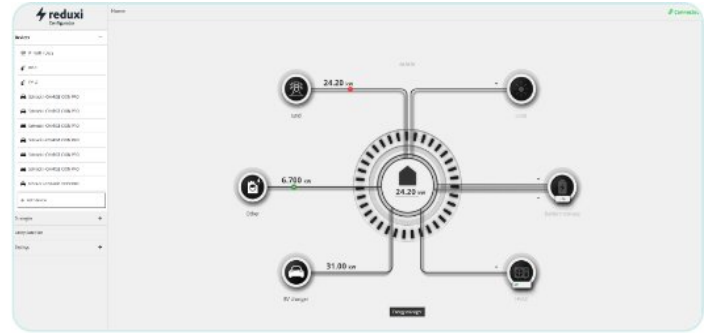
2

Log in

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



Reduxi Controller login screen



Web interface after login

6 Add the my-PV device to Reduxi



Note

Further information and images were kindly provided to my-PV by Reduxi. my-PV accepts no liability for the accuracy of the information or for the screens being up to date.

6.1 Basic settings

1

Click + Add device

On the controller's main page, select **+ Add device**.

2

Define the device

Device type: **HVAC**

Type: **myPV**

Name: any name, e.g. **myPV AC Thor 9s**

Include to strategy: tick **Regulated devices** for the strategy that should control the my-PV device.

Confirm with **Next**.


Configurator

Devices





+

Add device

Strategies

+

Utility Rate Plan

Settings

+

+ Add device

Basic settings

Device type *

HVAC

Type *

myPV

Name *

myPV AC Thor 9s

Include to strategy

Strategy	Measurement devices	Regulated devices
Energy manager new	☐	☒

Back

[How to configure?](#)

Next

Device type HVAC, type myPV, name and strategy

6.2 Communication settings

In the next window, enter the IP settings. Port and Modbus unit ID are filled in automatically.

PARAMETER	VALUE
Connection	TCP/IP
IP	IP address of the my-PV device (fixed, see Point 4.2)
Port	502 (filled in automatically)
Extended IP recovery	Yes
Modbus unit ID	1 (filled in automatically)

Communication channel and device configuration

Connection *

TCP/IP

IP *

10.0.0.252

Scan for IP

Port *

502

Test port

Extended IP recovery ⓘ

Yes

Modbus unit ID *

1

Back

How to configure?

Test communication

Done

Communication channel and device configuration



IP address unknown?

Click **Scan for IP** next to the IP field to list the devices in the network, or check the device list in your router. **Test port** checks whether port **502** is reachable.

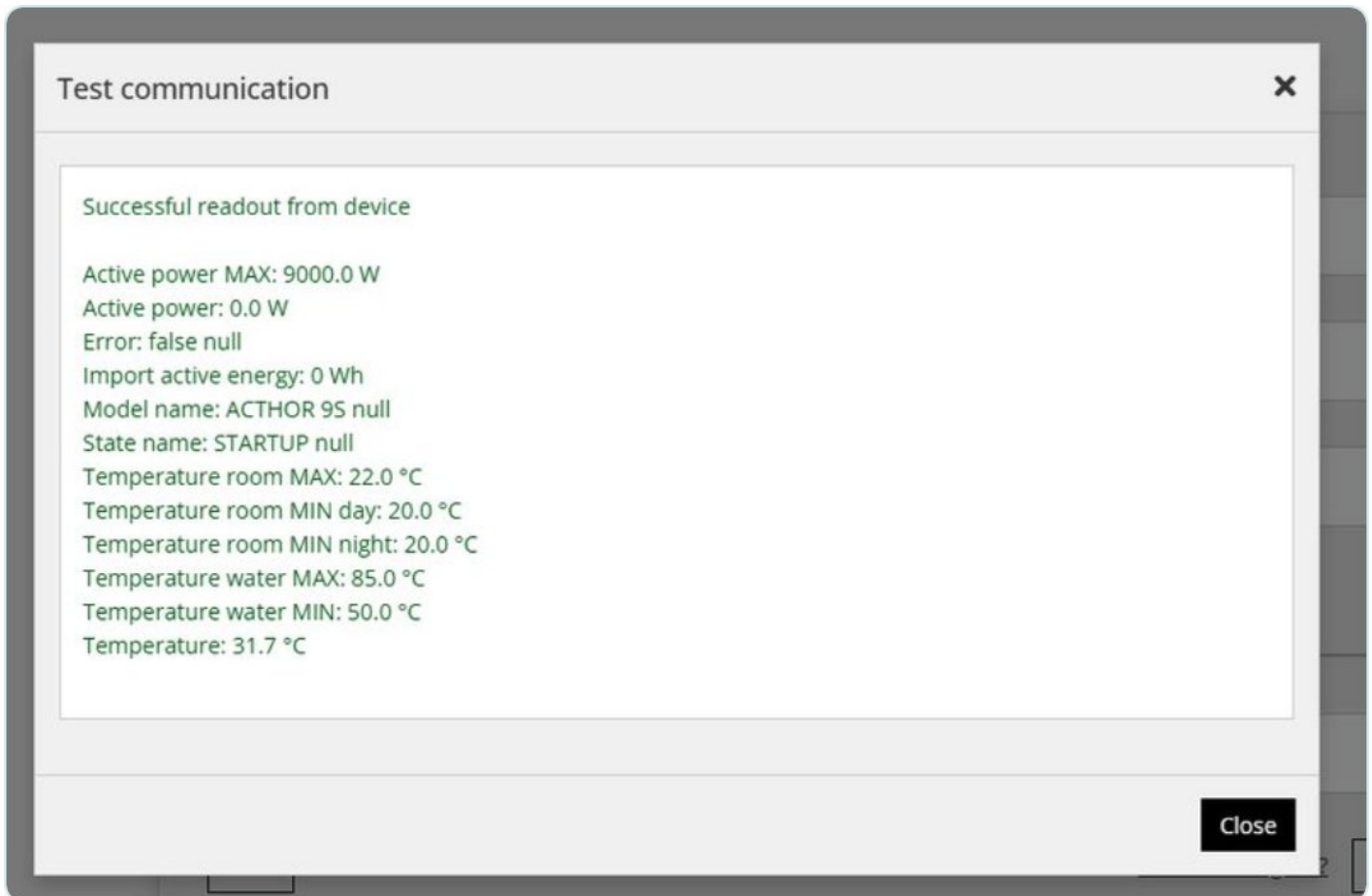
6.3 Test communication

Click **Test communication** to check whether the Reduxi Controller can read data from the my-PV device.



Test successful

The window shows "Successful readout from device" with the current values of the my-PV device (e.g. model name, power and temperatures). Close the window and confirm your entries with **Done**.



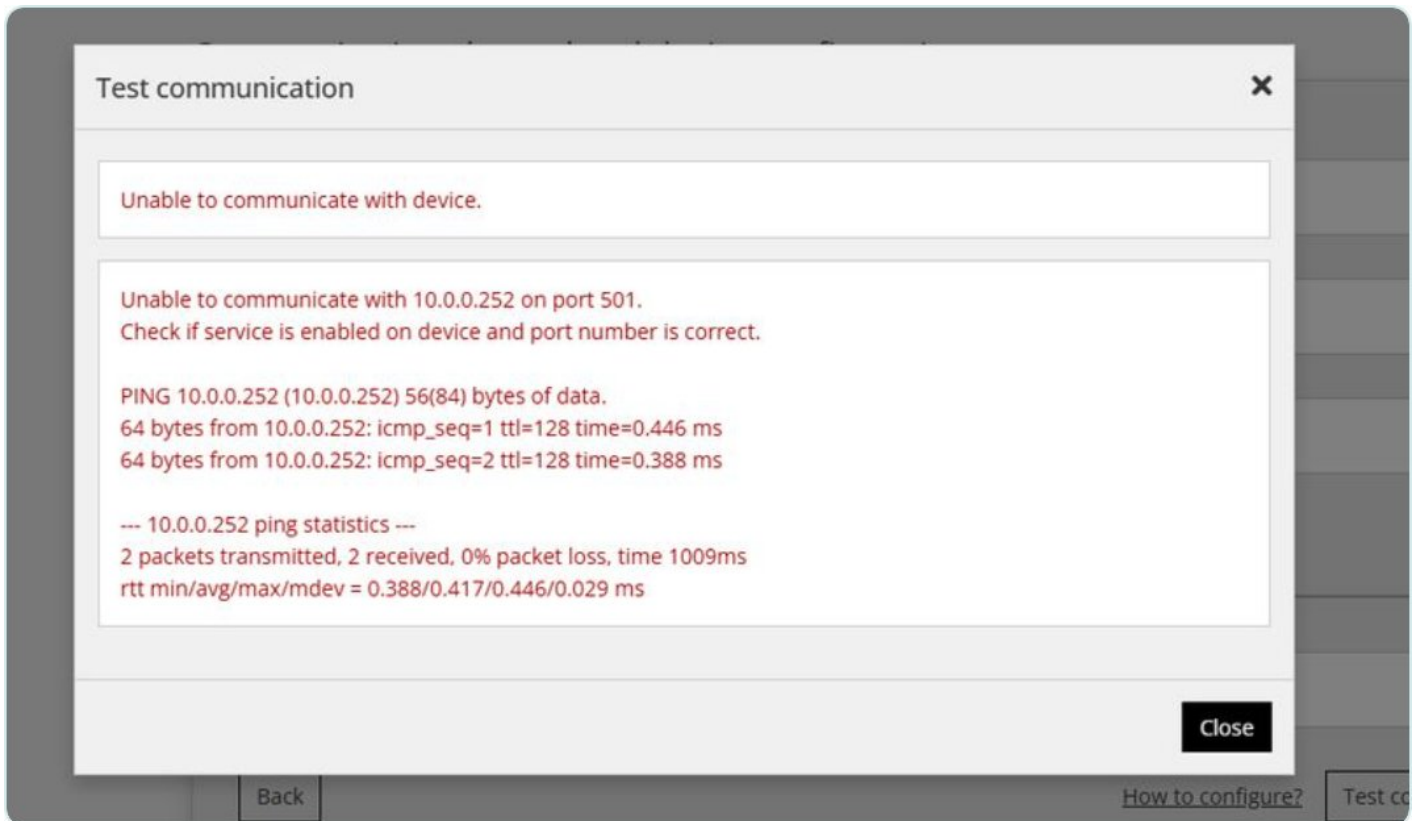
Successful test result (AC•THOR 9s)



Test failed

Close the window and check the port (**502**), the IP address and the control type **Modbus TCP** on the my-PV device. Then repeat the test. If the ping in the result is successful, the network connection works and the cause is the port or the Modbus setting on the my-PV device. See also

[Common issues](#).



Unsuccessful test result – here with the wrong port 501

7 Check readings & enable control

7.1 Check the readings

In the Reduxi web interface, open **Devices** → **[name of the my-PV device]** → **Last measurement**.

Control type

Auto

Manual

07.10.2026 20:20:46

Power

Active power	0.0 kW	07.10.2026 20:20:48
Active power MAX	9.0 kW	07.10.2026 20:20:48

Energy

Import active energy	1.9 kWh	07.10.2026 20:20:48
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Other

Communication error	OFF	07.10.2026 20:20:47
Control type	AUTO	07.10.2026 20:20:48
Error	OFF	07.10.2026 20:20:48
Model name	ACTHOR 9S	07.10.2026 20:20:48
State name	STARTUP	07.10.2026 20:20:48
State name setpoint	OFF	07.10.2026 20:20:48
Temperature	31.60 °C	07.10.2026 20:20:48
Temperature room MAX	22.00 °C	07.10.2026 20:20:48
Temperature room MIN day	20.00 °C	07.10.2026 20:20:48
Temperature room MIN night	20.00 °C	07.10.2026 20:20:48
Temperature water MAX	85.00 °C	07.10.2026 20:20:48
Temperature water MIN	50.00 °C	07.10.2026 20:20:48

Last measurement of the AC•THOR 9s – control type Auto, no communication error

WHAT YOU SEE	MEANING
Communication error OFF, values are read	Communication works.
Communication error ON, all values are 0	No communication – the settings do not match. Check Point 4 and Point 6.2, or see Common issues.

7.2 Enable control by Reduxi

In the **Control type** box of the device view, select **Auto**. Only then do the commands of the Reduxi strategy reach the my-PV device. With **Manual**, the device is not controlled by the strategy.



Prerequisite: grid measurement

Control based on PV surplus needs the power at the grid connection point. It comes either from the smart meter of the PV system, read via the inverter, or – if the my-PV device is the only device on the Reduxi Controller – from a separate energy meter / smart meter. Either way, it must already be set up in the Reduxi web interface and deliver values.

Next step: choose and configure the strategy – see **Strategies for the Reduxi Controller** under Related articles.

✓ Summary

Preparation (Points 1–3): Have the my-PV manual, a Reduxi Controller, grid measurement (smart meter of the PV inverter or a separate meter) and a my-PV AC•THOR, AC•THOR 9s or AC ELWA 2 ready. The my-PV device and the controller are in the same network via a router.

my-PV device (Point 4): Set the control type to **Modbus TCP** on the display (or in the my-PV web interface) and reserve a fixed IP address in the router.

Add to Reduxi (Points 5–6): Open the Reduxi web interface via the app (tunnel) or a browser, add device type **HVAC** / type **myPV**, enter the IP (port **502**, Modbus unit ID **1**) and run the communication test.

Go live (Point 7): Check the last measurement (communication error OFF), set the control type to **Auto** and configure the strategy. Grid measurement (smart meter of the PV inverter or a separate meter) must already be set up.

→ Common issues

ISSUE	SOLUTION
Test fails with "Unable to communicate ... on port 501", ping is successful	The network works, but the port is wrong or Modbus TCP is not active. Set the port to 502 and check that the control type on the my-PV device is Modbus TCP .
Test fails, ping is not successful	The my-PV device is not reachable: check the IP address, and that the device and controller are in the same network.
Connection worked, then stopped	The my-PV device probably received a new IP address from the router. Reserve a fixed IP in the router and enter it in the Reduxi web interface.
Readings are shown, but the device doesn't follow the strategy	Set the control type to Auto , check that Regulated devices is ticked for the strategy, that a strategy is active and that the grid measurement delivers values.
my-PV device receives conflicting setpoints	Make sure the device is not also controlled directly by an inverter or battery system – only the Reduxi Controller sets the power.
Can't open the controller via reduxi.local	Enter the controller's IP address instead (router device list or Reduxi app → Reduxi devices), or use the tunnel connection in the Reduxi app.

→ Related articles

Matching guides from the Reduxi knowledge base:



my-PV manuals and downloads

Data sheets, manuals and wiring diagrams



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