

How to add SolarEdge Solar Power Plant Inverter with display to Reduxi Configurator?

Configure the SolarEdge inverter with display for Modbus TCP and add it to the Reduxi Controller.

🔧 SolarEdge inverter with display · Reduxi Controller

🌐 Modbus TCP (Ethernet)

📡 Port 502 (default) · static IP recommended

The SolarEdge logo, featuring the word "solar" in black and "edge" in white with a red underline, all within a white rounded rectangle.

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1 Prepare the inverter

| 1.1 Required equipment

- ☐ Reduxi Controller
- ☐ SolarEdge inverter with display (Solar Power Plant inverter)
- ☐ SolarEdge documentation (the default password is listed there)
- ☐ Laptop or tablet with internet access to configure the device in Reduxi



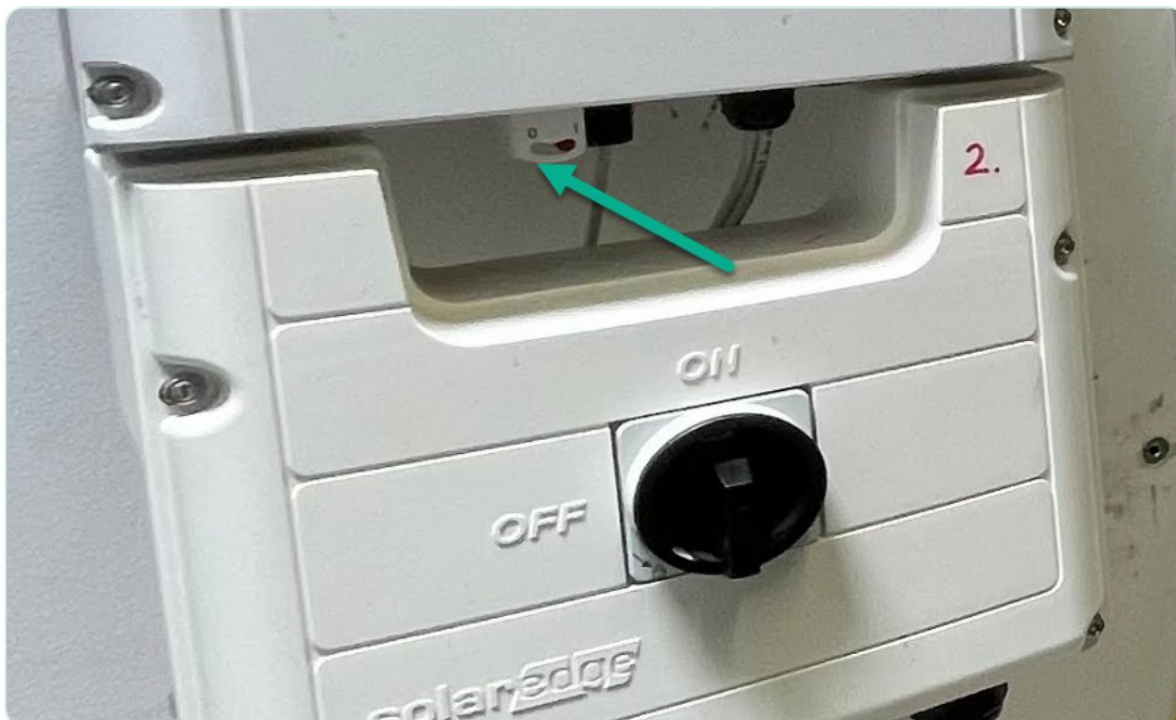
Important

Use a static IP address for the inverter. You need the IP address, the port and the Modbus unit ID later in the Reduxi Configurator.

2 Enable Modbus TCP on the inverter

2.1 Turn off the inverter

Turn off the inverter with the switch at the bottom of the front panel. Move the switch from **1** to **0**.



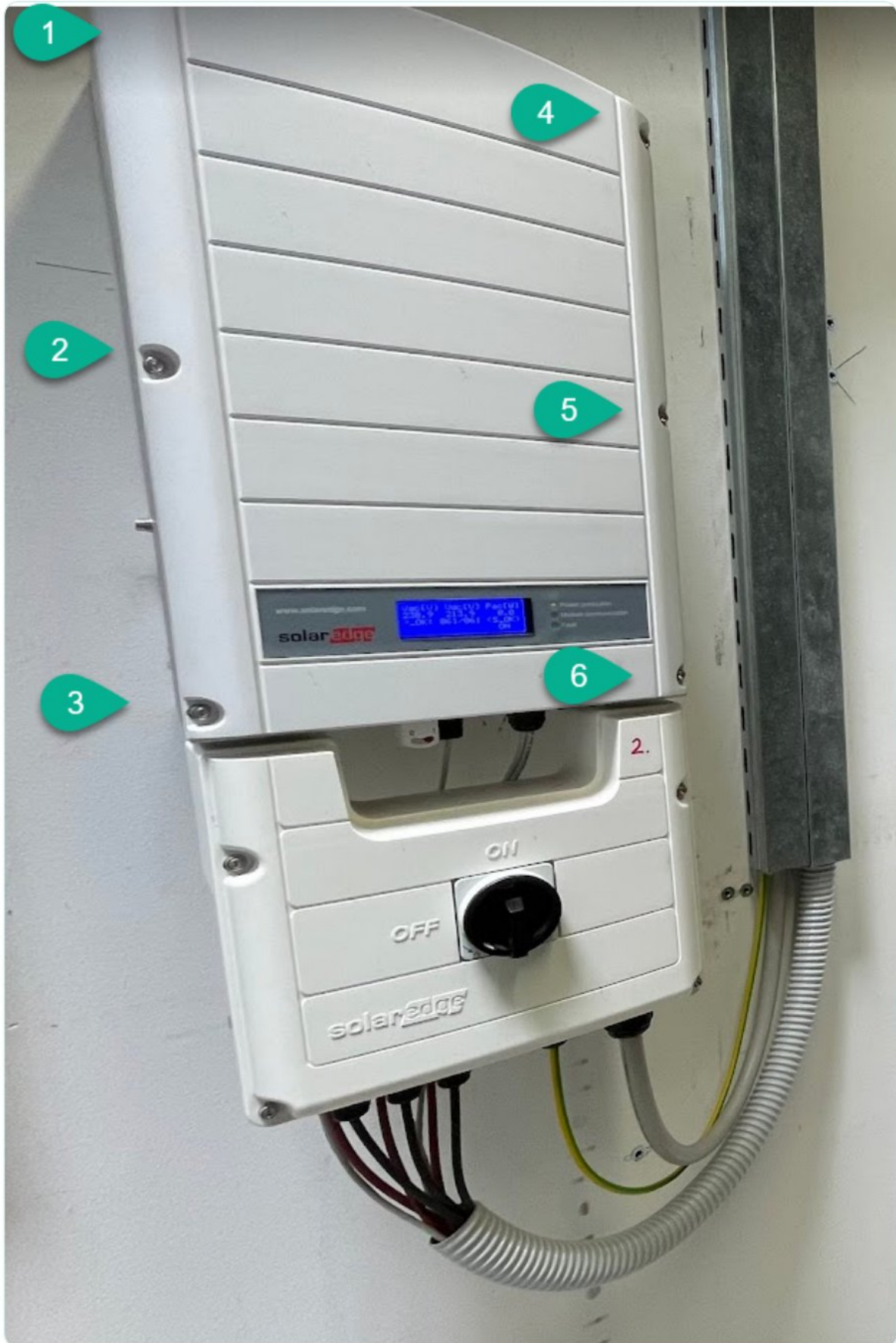
Inverter switch: move from 1 to 0

Wait until the energy production of the inverter goes to 0 W. Then turn the main switch from ON to OFF.



Main switch in the OFF position

2.2 Unscrew the 6 screws on the front cover



Unscrew the 6 screws on the front cover

2.3 Enable display mode configuration and enter the password

The display unit has four small buttons. Press and hold the right button for 4 seconds.



Hold the right button for 4 seconds

The display asks for a password. The default password is **12312312** (see the SolarEdge documentation). Enter it with the buttons: the second button is the number 1, the third button is the number 2, the fourth button is the number 3.

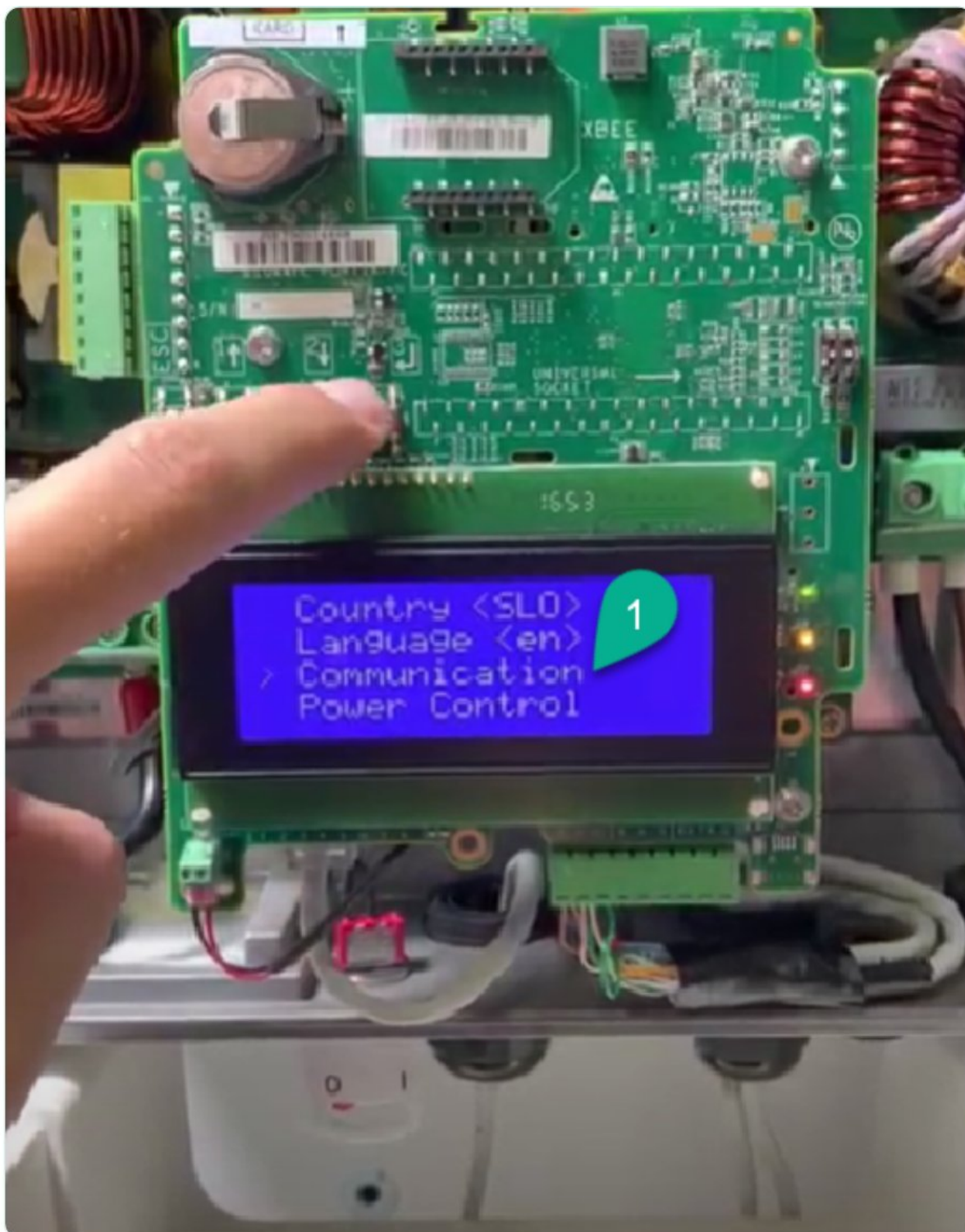


Password entry

After you enter the correct password, the display goes to the next menu automatically.

2.4 Open the Communication menu

Press the third button to go down in the menu. Press it until the sign **>** is at **Communication**. Press the fourth button to enter the Communication menu.



Communication menu

| 2.5 Set the TCP connection

Check the LAN configuration and enable Modbus TCP communication. Set the Modbus TCP port and define a static network IP address (recommended).

Select LAN Conf. Press the third button to go down to **LAN Conf.** Press the fourth button to enter it.



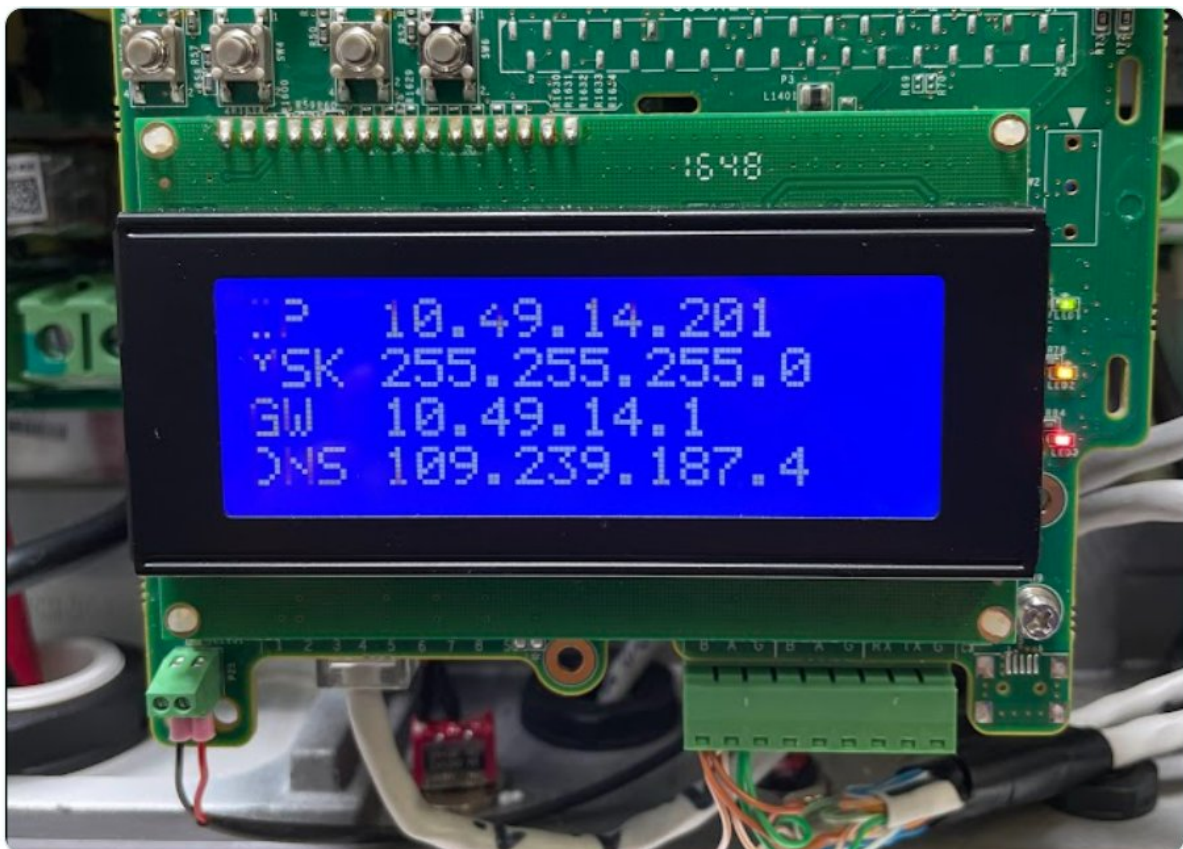
LAN Conf menu

Select IP Config.



IP Config menu

Configure IP Config. Enter the static IP address, Mask, GW and DNS (optional) of the inverter. Press and hold the fourth button to confirm the settings.



IP Config settings

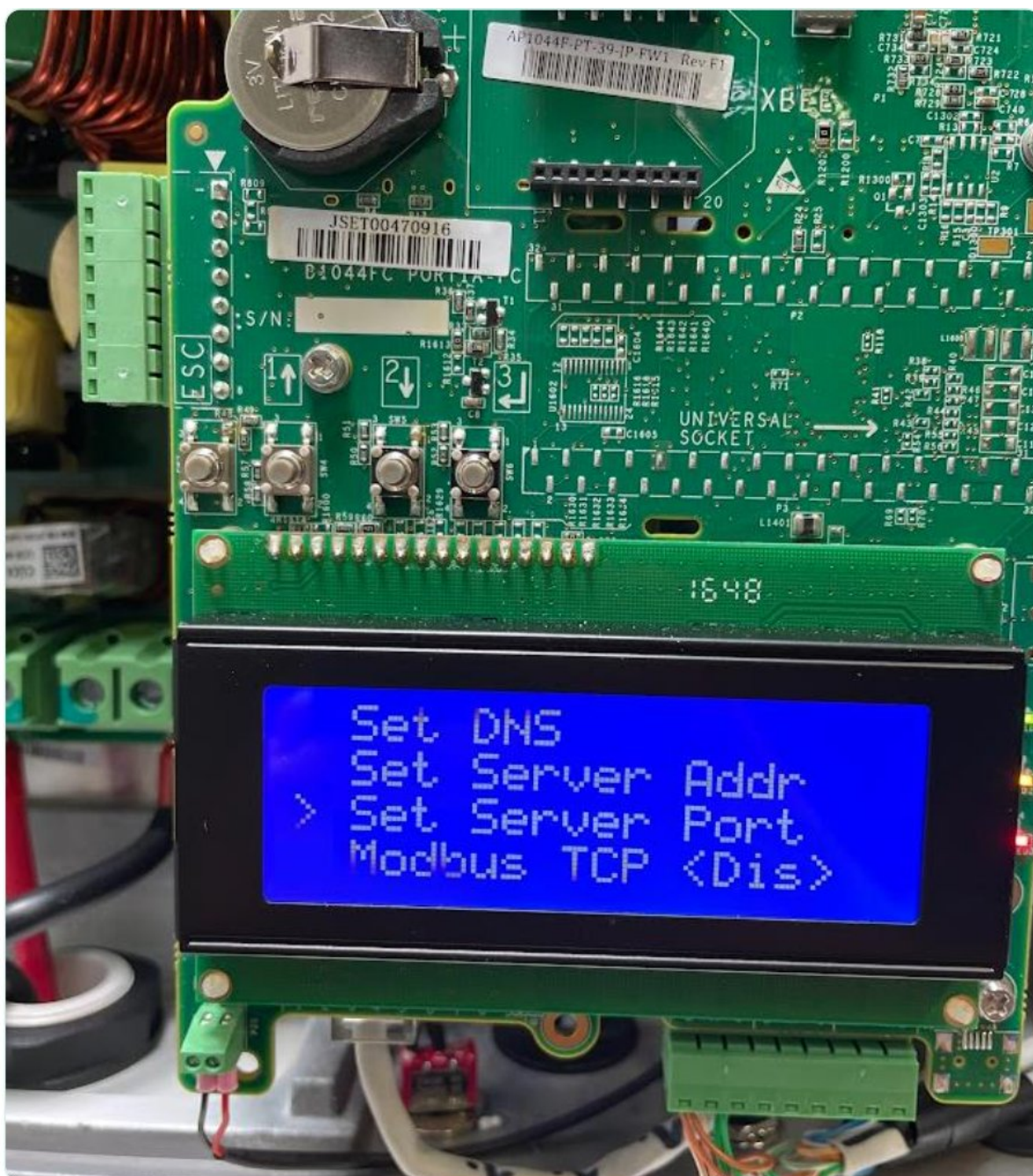
Press the first button to go back to the menu.



Back in the main menu

| 2.6 Set the Modbus unit ID

Press the third button, go to **Set Server Addr** and enter the Modbus unit ID. Hold the fourth button until **Applied** appears, then release it.

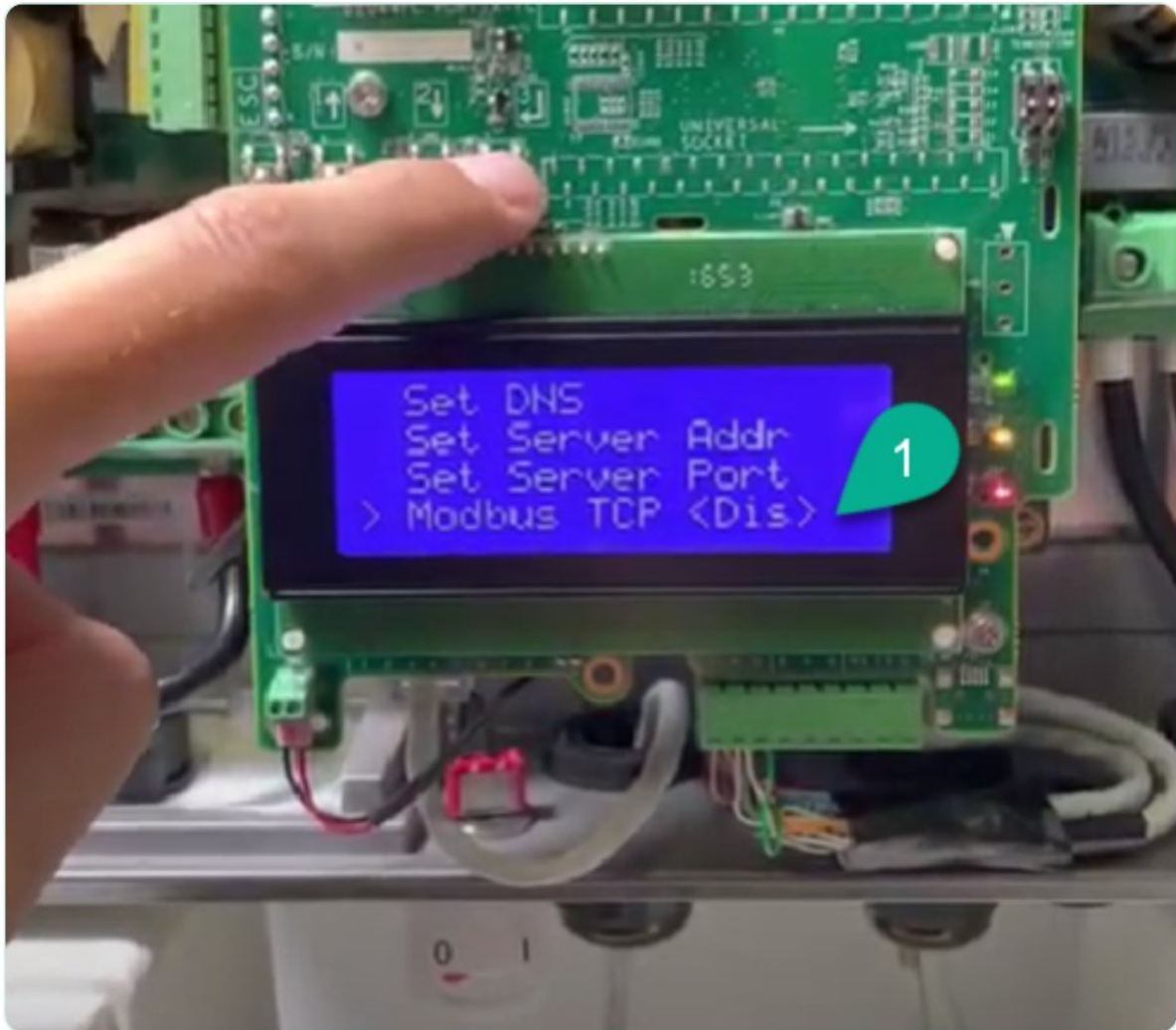


Set Server Addr: Modbus unit ID

Press the first button to go back to the menu.

| 2.7 Enable Modbus TCP and set the port

Press the third button to go down in the menu. Select **Modbus TCP <Dis>** with the fourth button.



Modbus TCP menu

Enter the port number. The default is **502**. Change it with the second and third buttons, or leave **502**. Hold the fourth button until the message **Applied** appears, then release it.



Port number entry



Applied message

Lock the screen. Press the first button to return to the menu and lock the screen. If you do not lock it, the display locks itself after 10 to 15 minutes and the backlight turns off.

2.8 Gather the settings for the Reduxi Configurator

The inverter configuration is finished. Add the inverter to the controller with the static IP address, the port and the Modbus unit ID you entered.

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 reduxि.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

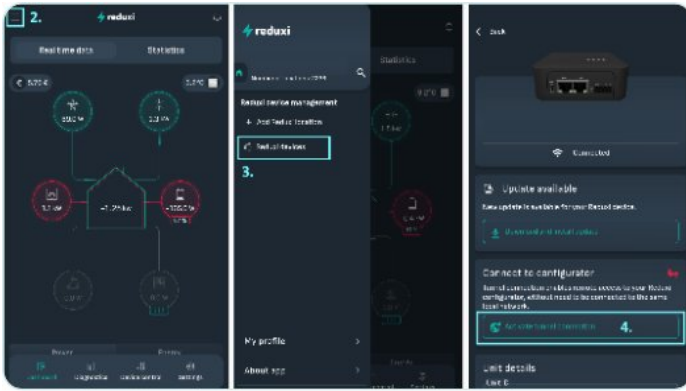
Activate the tunnel connection

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

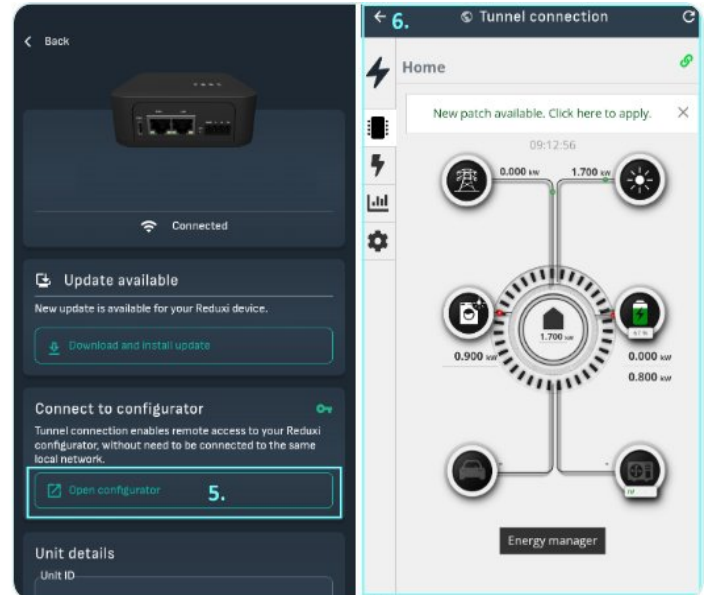
4

Open the configurator

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



Activate the tunnel connection (step 3)



Open configurator (step 4)

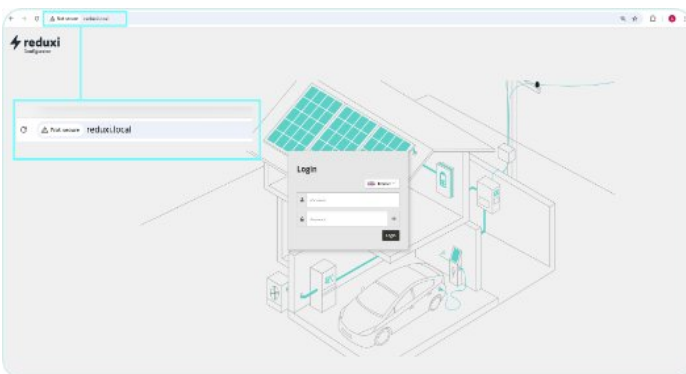
3.2 Via a web browser

1 Open the login page

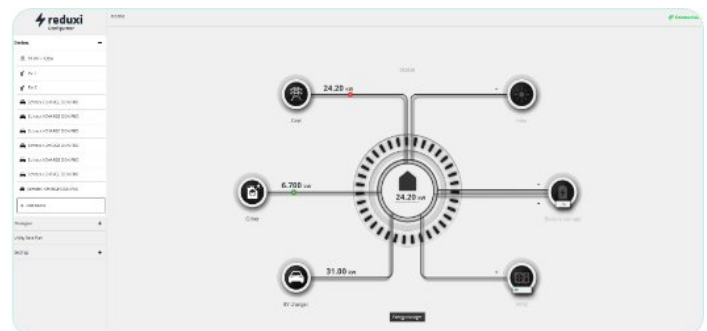
On a device in the same network, open a web browser and enter the controller's IP address or `http://reduxi.local`. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

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



Reduxi Controller login screen



Controller web interface after login

4 Add the inverter to Reduxi

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

4.1 Basic settings

Log in locally to the **Reduxi Configurator via the browser** (see **Point 3**) and click **+ Add device**.

In the first step (basic settings), select the device type and the type of the SolarEdge inverter and enter a name of your choice. Press **Next**.

4.2 Communication settings

Select the communication channel and enter the settings you configured on the inverter in [Point 2](#):

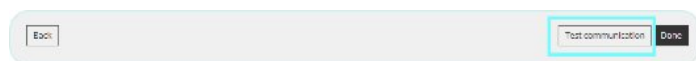
PARAMETER	VALUE
IP	The static IP address you set on the inverter
Port	The Modbus TCP port you set on the inverter (default 502)
Modbus unit ID	The unit ID you set under Set Server Addr

4.3 Device configuration and advanced settings

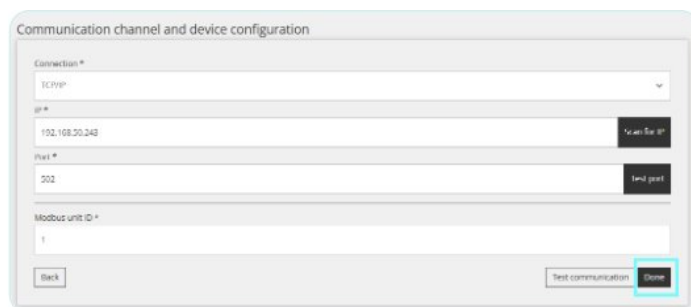
Enter the device configuration. Normally the Modbus unit ID **1** is used. Then enter and choose the advanced settings.

4.4 Test communication

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



The **Test communication** button



The **Done** button

5 Check the readings

5.1 Last measurements

After communication is established, check the values of the inverter in the Reduxi Configurator as an additional test.

5.2 Enable control by Reduxi

To integrate the inverter into the Reduxi strategy, define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Collect the equipment. Turn off the inverter, open the cover, enter the password and set LAN, static IP, Modbus unit ID and Modbus TCP port on the display.

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

Add to Reduxi (Point 4): Add the inverter with the IP address, port and Modbus unit ID. Run the communication test and press Done.

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

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the IP address, port and Modbus unit ID against the values on the inverter display (see Point 2).
Display locked before you finish	The display locks after 10 to 15 minutes. Enter the password again (see Point 2).
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:



Reduxi Configurator via the browser

How to log in to the Reduxi Configurator.



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