

Reduxi with PEGO ECP200 BASE

Connect the PEGO ECP200 BASE to the Reduxi Controller via Modbus RTU. You get maximum flexibility and cost and energy reductions of up to 30%.

🔧 PEGO ECP200 BASE · Reduxi Controller

🌐 Modbus RTU (RS485) 🏷️ Device type: HVAC



PEGO ECP200 BASE

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1 Technical documentation

Documents for the PEGO ECP200 BASE:

- [PEGO ECP200 BASE documentation \(PDF\)](#) – Device documentation, as linked in the original Reduxi guide.
- [ECP 200 BASE4 A data sheet \(PDF, Italian\)](#) – Data sheet of the control panel for cold rooms, from the distributor Arbo.
- [ECP200 BASE 4 user and maintenance manual \(French\)](#) – Manual on ManualsLib.

2 Required equipment

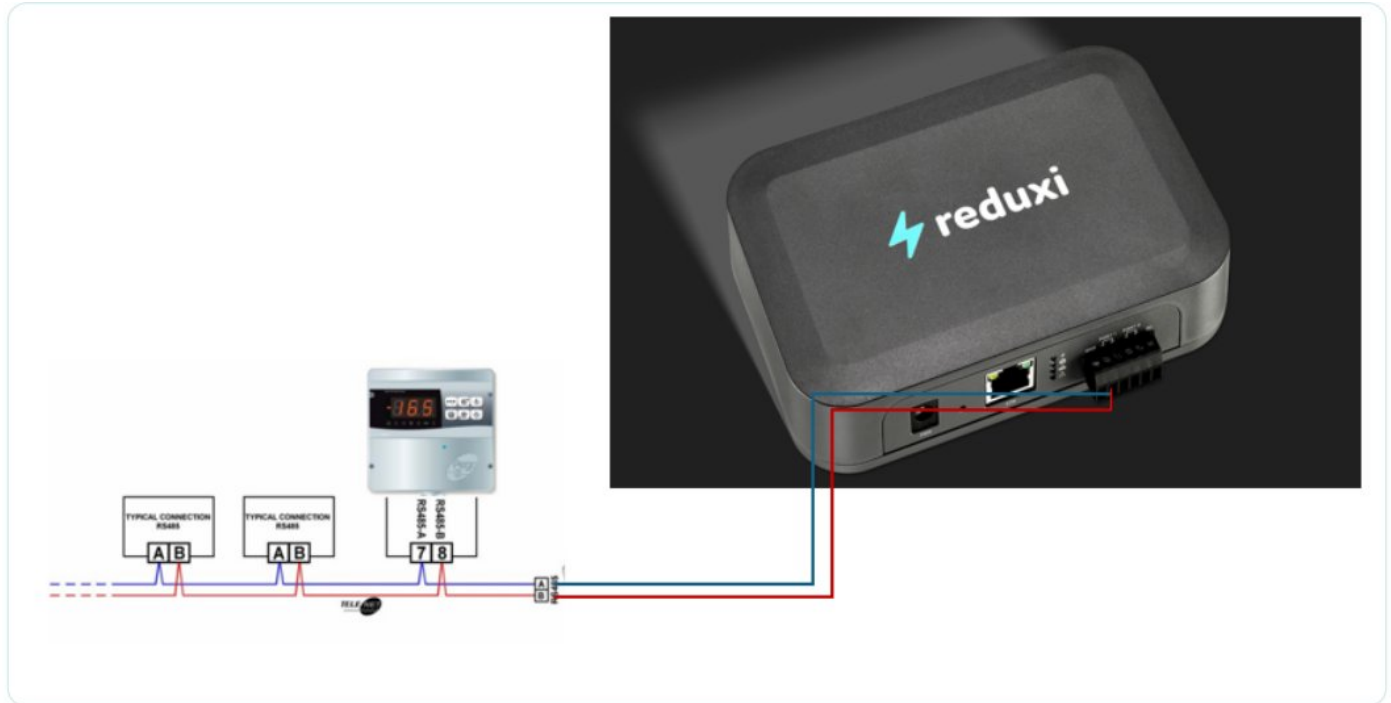
You need the following components:

- ☐ PEGO ECP200 BASE
- ☐ Reduxi Controller
- ☐ Cable for the Modbus RTU (RS485) connection
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Connect the PEGO ECP200 BASE to the Reduxi Controller

The PEGO ECP200 BASE has an RS485 interface that supports Modbus RTU. Reduxi reads the device through this Modbus interface, so the physical connection must be in place first.

The picture shows how to connect the Reduxi Controller and the PEGO ECP200 BASE.



Physical connection between the Reduxi Controller and the PEGO ECP200 BASE

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

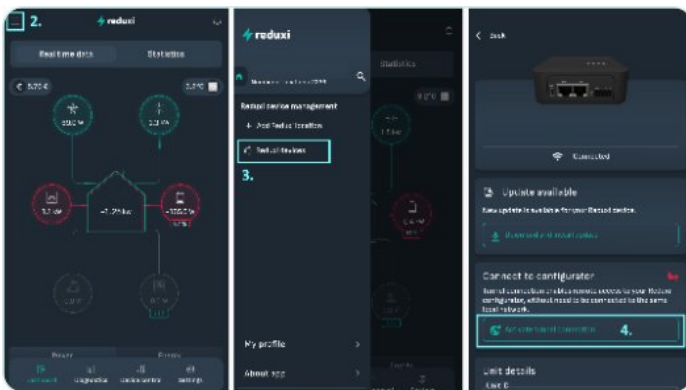
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

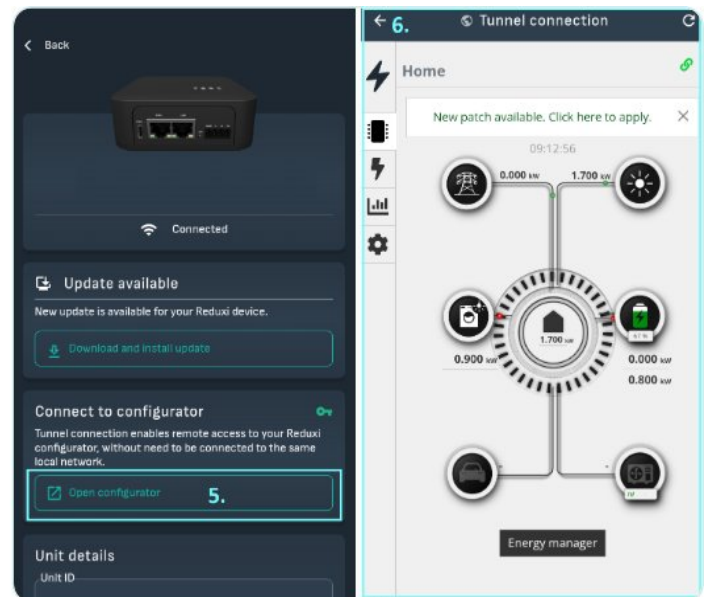
Switch on the tunnel connection and wait a moment until it is active.

4 Open the configurator

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



Activate the tunnel connection (step 3)



Open configurator (step 4)

4.2 Via a web browser

1 Open the login page

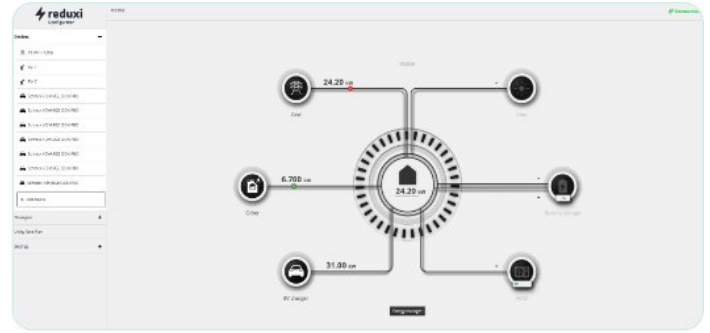
On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

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



Reduxi Controller login screen



Controller web interface after login

5 Add the PEGO ECP200 BASE to Reduxi

After you connect the Reduxi Controller and the PEGO ECP200 BASE, register the device in Reduxi.

5.1 Basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 4](#)) and click the **Add device** button.

reduxi[⚡]

CONFIGURATOR

Devices



Strategies



+ Add device

+ Add strategy

Settings

Profile

*The **Add device** button*

In the first step, select the basic settings:

- Device type: HVAC
- Type: PEGO ECP200 BASE
- Name: a name of your choice

1 Basic settings 2 Communication channel 3 Advanced settings

Basic settings

Device type *

HVAC

Type *

PEGO ECP200 BASE

Category *

HVAC

Name *

PEGO ECP200 BASE

Back Next

Basic settings: device type, type and name

5.2 Communication settings

The second step sets up the communication channel for Modbus RTU. It creates the link between the Reduxi Controller and the PEGO ECP200 BASE. The screenshot shows the settings.

1

2

3

Basic settings

Communication channel

Advanced settings

Communication channel and device configuration

Connection *

Local serial port

Port *

Port 1

Baud rate *

9600 bits/s

Data bits *

8

Stop bits *

1

Parity *

None

Modbus unit ID *

1

Back

Test communication

Next

Communication settings (Modbus RTU)

5.3 Test communication

The **Test communication** button is below the communication fields. It checks whether the Modbus RTU connection between the devices works. If the test succeeds, click **Done**: only **Done** creates the device.

Modbus unit ID *

1

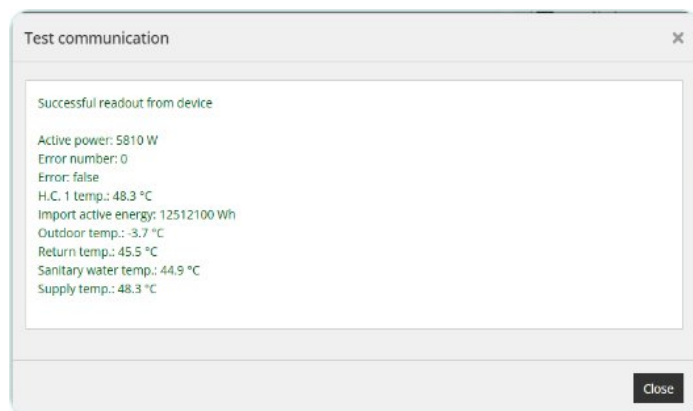
Back

Test communication

Next

The **Test communication** button

The test returns one of two results:



1. Communication works properly



2. Communication does not work properly

5.4 Advanced settings

Use the advanced settings only if the site has special requirements. By default, you do not change anything here.

1

2

3

Basic settings

Communication channel

Advanced settings

Advanced settings

Do you want to set data saving interval?

☐ No

Default: 1 min

Do you want to set reading delay?

☐ No

Default: 1000 ms

Do you want to set writing delay?

☐ No

Default: 1000 ms

Do you want to set power generation limits and capabilities?

☐ No

Do you want to set power consumption limits and capabilities?

☐ No

Do you want to limit communication with the device to read-only?

☐ No

Default: No

Do you want to invert direction for energy import and export?

☐ No

Default: No

L1 is connected to main feed

L2 is connected to main feed

L3 is connected to main feed

L1

L2

L3

Back

Done

Advanced settings

6 Check the readings

6.1 Last measurements

Check the readings of the device under **Device (PEGO ECP200 BASE) – Last measurement** in the Reduxi Configurator.

The screenshot displays the Reduxi Configurator interface for the PEGO ECP200 BASE device. At the top, there is a 'State name setpoint' section with buttons for 'Off', 'Eco', 'On' (highlighted in blue), 'Boost', and 'Setpoint'. Below this, the main interface is divided into three panels: 'Configuration', 'Measurements', and 'Other'.

Configuration Panel:

Parameter	Value	Unit	Timestamp
enumeration.TEMPERATURE_DELTA_CMD	3.0	°C	17.02.2025 16:06:17
enumeration.TEMPERATURE_LOWER_LIMIT_CMD	3.0	°C	17.02.2025 16:06:17
enumeration.TEMPERATURE_SETPOINT_CMD	4.0	°C	17.02.2025 16:06:17
enumeration.TEMPERATURE_UPPER_LIMIT_CMD	10.0	°C	17.02.2025 16:06:17

Measurements Panel:

Measurement	Value	Timestamp
Communication error	ON	17.02.2025 16:06:17

Other Panel:

Parameter	Value	Timestamp
Control type	MANUAL	17.02.2025 16:06:17
State name setpoint	ON_AUTO	17.02.2025 16:06:17

Last measurements of the PEGO ECP200 BASE

6.2 Monitor in the Reduxi cloud

Once the device is added in the Configurator, you can monitor it in the [Reduxi cloud application](#).

✓ Summary

Preparation (Points 1–2): Get the PEGO ECP200 BASE documentation. Prepare the Reduxi Controller, the Modbus RTU cable and a laptop or tablet.

PEGO ECP200 BASE (Point 3): Connect the device to the Reduxi Controller via Modbus RTU (RS485).

Add to Reduxi (Points 4–5): Log in to the Reduxi web interface. Add the device as **HVAC** type **PEGO ECP200 BASE**, enter the communication settings, run **Test communication** and click **Done**.

Go live (Point 6): Check the readings under Last measurement. Monitor the device in the Reduxi cloud.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the physical Modbus RTU connection (see Point 3) and the communication settings (see Point 5 , Point 5.2).
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:



PEGO ECP202 BASE (manufacturer page)

Manufacturer page of the current PEGO BASE series control panel with RS485 for TeleNET or Modbus-RTU.



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