

How to connect Landis+Gyr E450 energy meter with Reduxi controller

Connect the Landis+Gyr E450 energy meter to the Reduxi Controller via M-Bus and the Reduxi Landis Converter.

🔧 Landis+Gyr E450 energy meter · Reduxi Controller

🌐 M-Bus via Reduxi Landis Converter (RS485)

🔌 M-Bus on meter pins 28 and 29

Landis+Gyr

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1 Technical documentation

Documents for this installation:

- [How to configure Landis+Gyr E350 or E450 in the MAP120 tool](#) – Reduxi guide for the M-Bus settings on the meter
- [Reduxi Converter for Landis+Gyr E350, 450 meter](#) – Connection and technical data of the Reduxi converter
- [Landis+Gyr E450 brochure](#) – Manufacturer data on the meter and its interfaces

2 Required equipment

You need the following components:

- ☐ Reduxi Controller or Reduxi Gateway
- ☐ Landis+Gyr E450 energy meter
- ☐ Reduxi Landis Converter RS485-M-BUS
- ☐ Cable between the converter and the controller (A, B and GND)
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

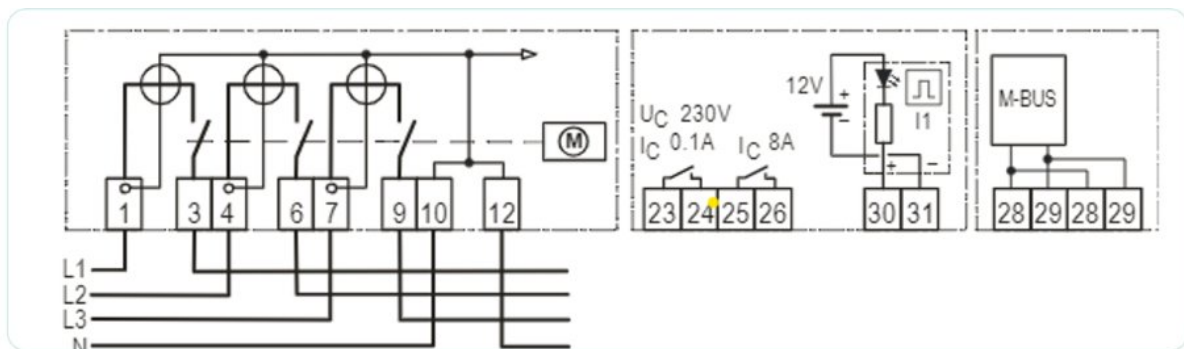
3 Set up the M-Bus interface on the meter

To configure the energy meter, follow [How to configure Landis+Gyr E350 or E450 in the MAP120 tool](#).

4 Connect the meter to the Reduxi Controller

4.1 Connect M-Bus on the meter

Connect M-Bus on the energy meter directly to the Reduxi Landis Converter RS485-M-BUS. Use pins **28** and **29** on the energy meter, as shown in the picture.



M-Bus pins 28 and 29 on the energy meter

Text description of this image

4.2 Connect the converter to the controller

Connect the RS485 side of the Reduxi Landis Converter to the Reduxi Controller or Reduxi Gateway. Choose port one or port two:

- A → A
- B → B
- GND → GND

4.3 Check the converter LEDs

A green light and a blinking yellow light appear on the converter. If the yellow light is not blinking, the energy meter is not set from the electro-distribution and does not send data.

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

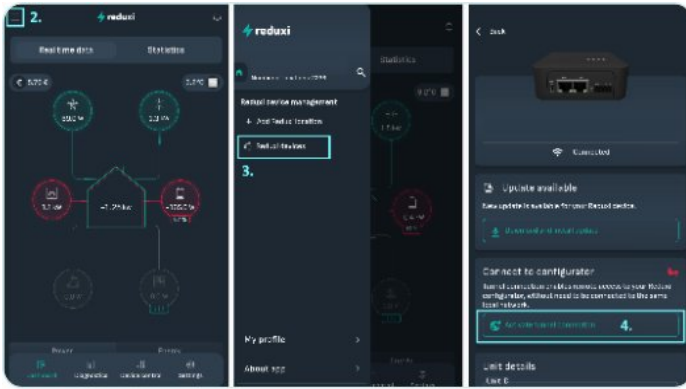
Activate the tunnel connection

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

4

Open the configurator

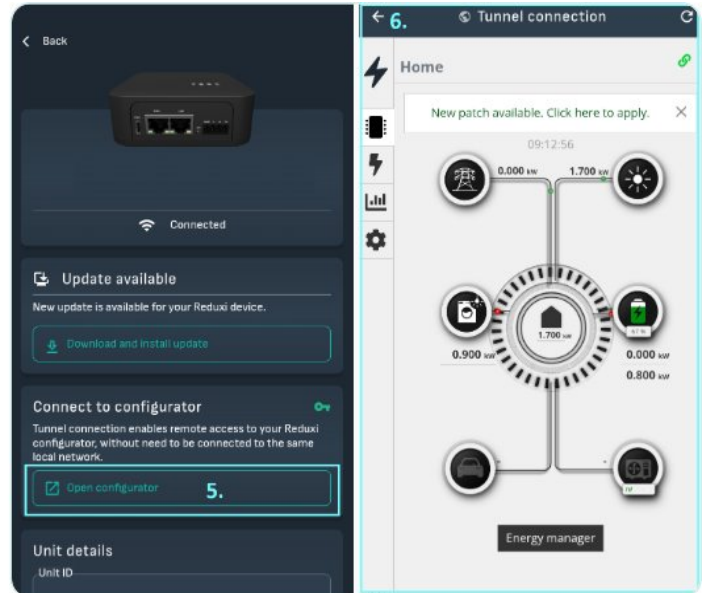
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (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

Screenshot of the Reduxi mobile app showing the 'Unit details' screen and the 'Tunnel connection' screen.

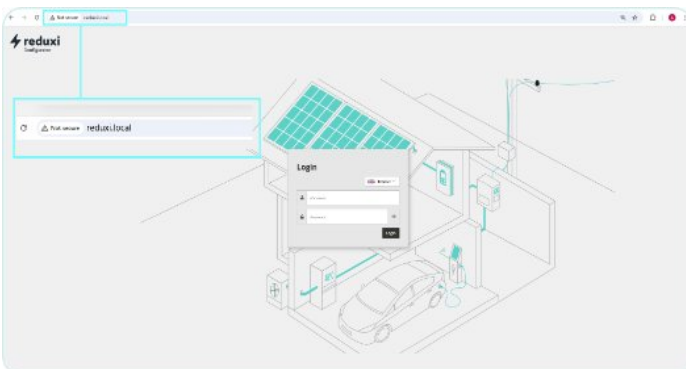
5.2 Via a web browser

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**.

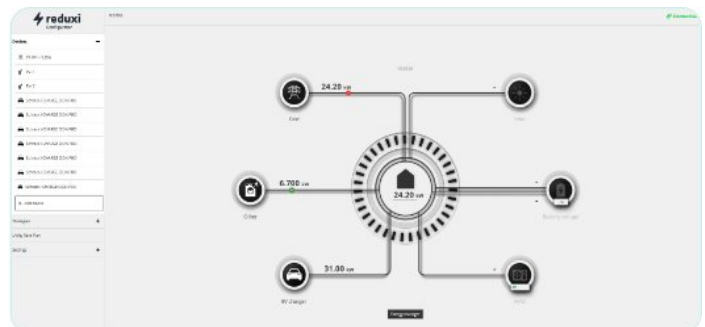
2 Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

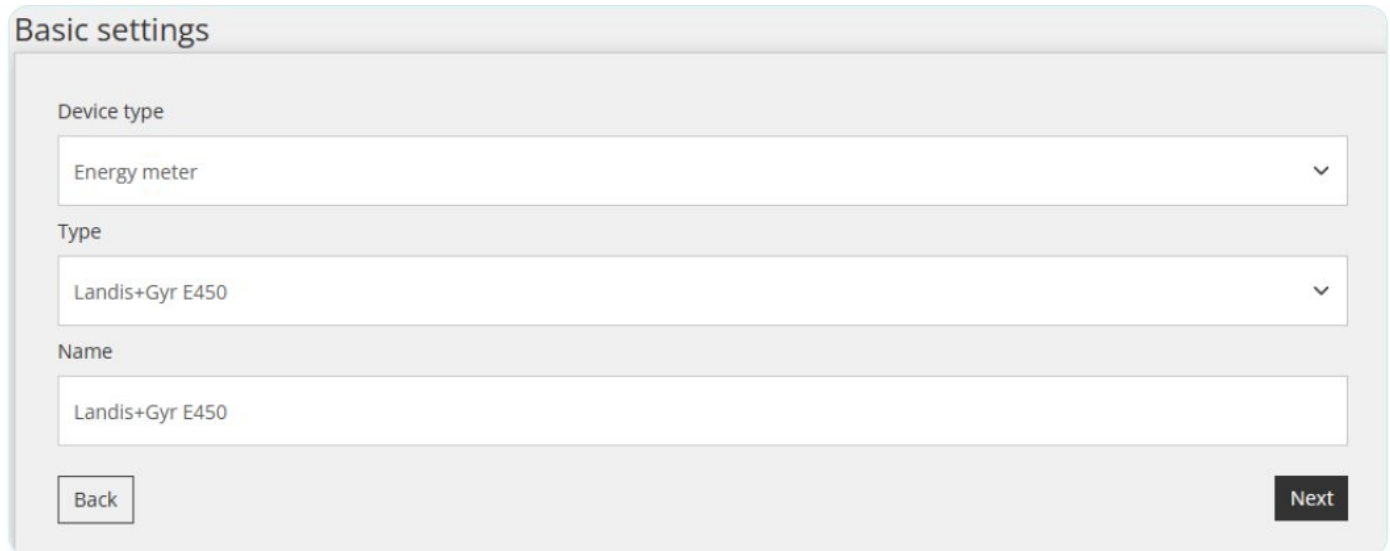
Screenshot of the Reduxi Configurator web interface

6 Add the meter to Reduxi

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

6.1 Basic settings

Log in to the [Reduxi Configurator via the browser](#) (see [Point 5](#)), click **+ Add device** and enter the basic settings of the meter.



Basic settings

Device type

Energy meter

Type

Landis+Gyr E450

Name

Landis+Gyr E450

Back

Next

Basic settings of the energy meter

Text description of this image

6.2 Communication settings

Select the communication channel.

6.3 Device configuration

Choose the device configuration.

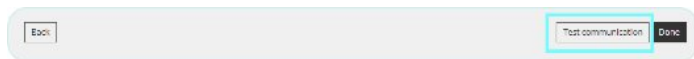


Optional parameters

The **Block cypher** and **authentication key** parameters are optional. They depend on how the distributor configures the energy meter.

6.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Landis+Gyr E450 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

Then enter and choose the advanced settings.

7 Check the readings

7.1 Last measurements

After communication is established, check the values under **Devices – Landis+Gyr E450** in the Reduxi Configurator.

✓ Summary

Preparation (Points 1–2): Open the documentation. Prepare the controller, the converter, the cable and a laptop or tablet.

Landis+Gyr E450 (Points 3–4): Set up M-Bus on the meter. Connect pins 28 and 29 to the converter and the converter to the controller.

Add to Reduxi (Points 5–6): Log in to the Reduxi Configurator. Add the device and test communication.

Go live (Point 7): Check the last measurements under Devices.

→ Common issues

ISSUE	SOLUTION
Yellow LED on the converter is not blinking	The meter is not set from the electro-distribution and sends no data.
Test communication fails	Check the optional Block cypher and authentication key parameters. They depend on how the distributor configured the meter.
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 Converter for Landis+Gyr E350, 450 meter

Connection and technical data of the converter.



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