

How to connect IME Nemo 96 power analyzer with Reduxi controller

Keep energy and costs under control: monitor consumption anytime and anywhere with the Nemo Power Analyzer and Reduxi.

🔧 IME Nemo 96 HDLe · Reduxi Controller

🌐 Modbus RTU (RS485)

🔌 Reduxi Port 1 · Modbus unit ID 1 (default)

🏷️ Device type: Energy meter



A Group brand | **legrand**



IME Nemo 96 HDLe

Text description of this image

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1 Technical documentation

Documents for the IME Nemo 96 HDLe:

- [IME Nemo 96 HDLe user manual \(PDF\)](#) – Manufacturer manual, as linked in the original Reduxi guide.
- [Nemo 96 HDLe data sheet NT854 \(PDF\)](#) – I.M.E. data sheet with the RS485 specification.
- [Nemo 96 HDLe Modbus communication protocol PR130 \(PDF\)](#) – Modbus protocol description.
- [Nemo 96HDLe IM-MF96421 \(BTicino product page\)](#) – Product page with manuals and technical sheets.

2 Required equipment

To connect the Reduxi Controller to the Nemo 96 HDLe, you need:

- ☐ Nemo 96 HDLe power analyzer with RS485 interface
- ☐ Reduxi Controller
- ☐ Modbus RS485 connection cable
- ☐ Laptop or tablet with internet access to configure the device in Reduxi



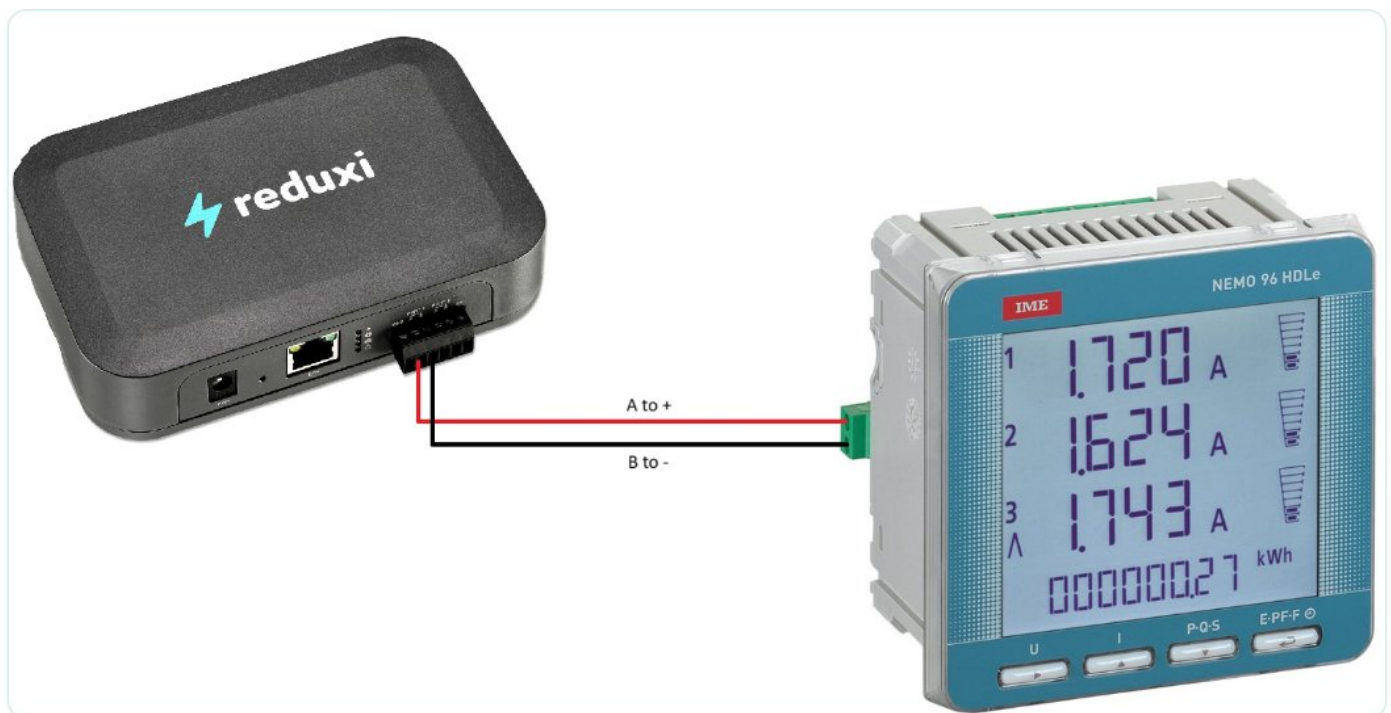
RS485 variants

The RS485 interface is only present in the variants MF96421 and MF96422. Check the model before you start.

3 Connect the Reduxi Controller to the Nemo 96 HDLe

3.1 Connection overview

The picture shows the connection between the Reduxi Controller and the Nemo Power Analyzer. Route the Modbus connection from the terminals on the Reduxi Controller (Port 1 – A + B) to the RS485 port of the Nemo 96 HDLe (RS485 + and –). Connect port A to + and port B to –.

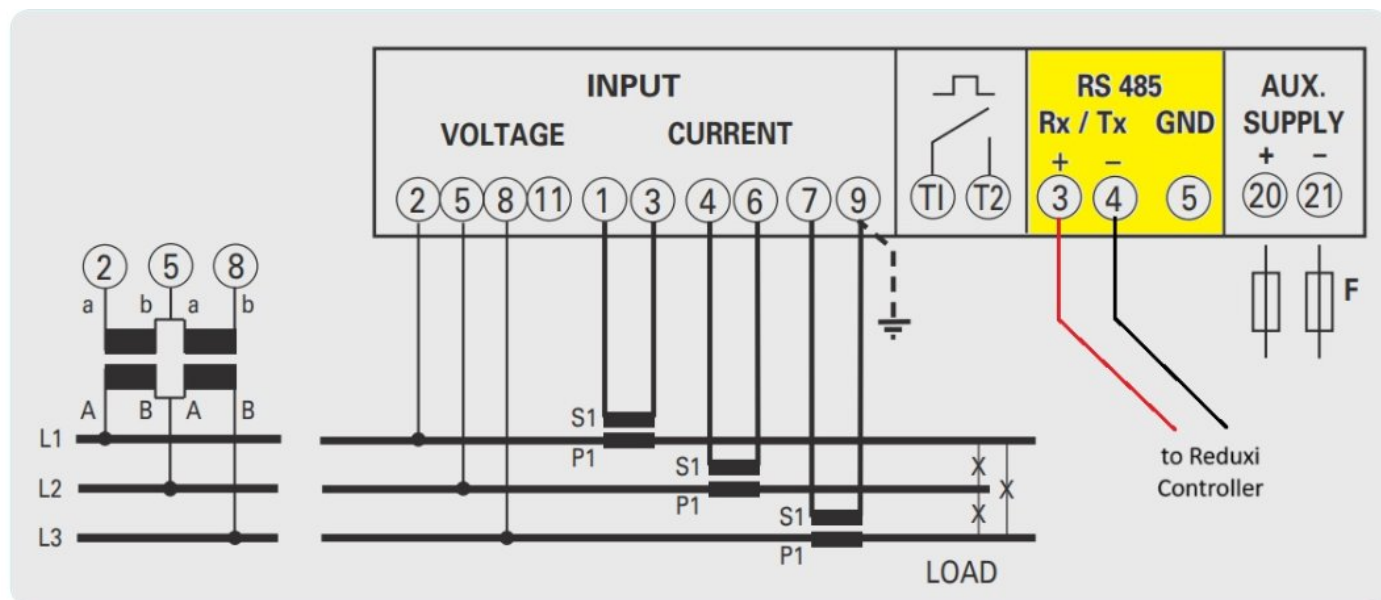


Connection between the Reduxi Controller and the Nemo 96 HDLe

Text description of this image

3.2 Connection point on the Nemo 96 HDLe

The next picture shows the connection point on the Nemo 96 HDLe. The RS485 terminals are marked in yellow: 3 (+) and 4 (–), with 5 (GND).



RS485 terminals of the Nemo 96 HDLe

Text description of this image

4 RS485 parameters of the meter

The meter and the Reduxi Controller must use the same serial parameters. The data sheet lists these values:

PARAMETER	NEMO 96 HDLE
Interface	RS485, 3 wires, galvanically isolated from the measurement input and the auxiliary supply
Protocol	Modbus RTU (Modbus TCP is also supported, with automatic recognition)
Baud rate	4800 , 9600 , 19200 or 38400 bit/s
Data bits / stop bits	8 / 1
Parity	none, even or odd
Modbus address	1 to 255
Network size	Up to 32 devices per network (up to 255 with an RS485 repeater), maximum distance to the supervisor 1,200 m

Set the values on the meter as described in the manufacturer manual (see [Point 1](#)).

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

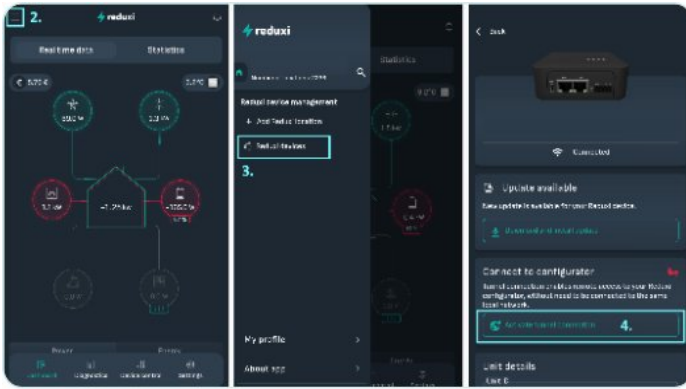
Activate the tunnel connection

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

4

Open the configurator

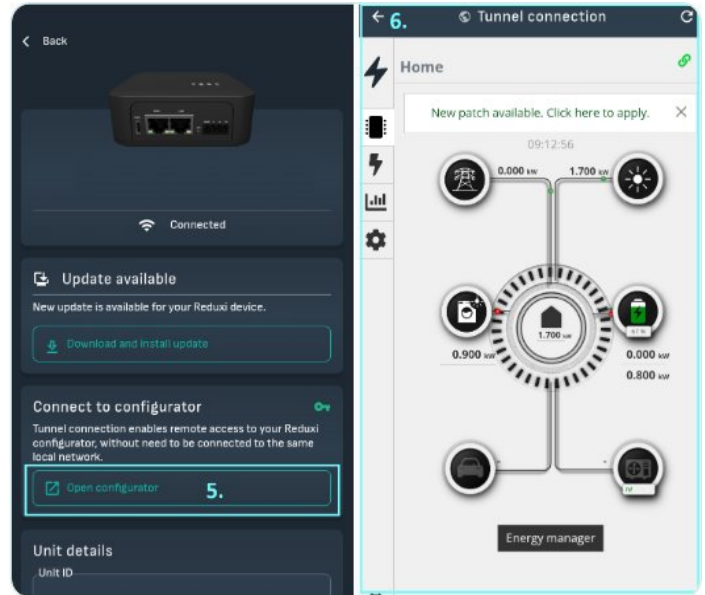
Tap **Open configurator**. The Reduxi web interface opens.



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 'Update available' screen and the 'Tunnel connection' screen.

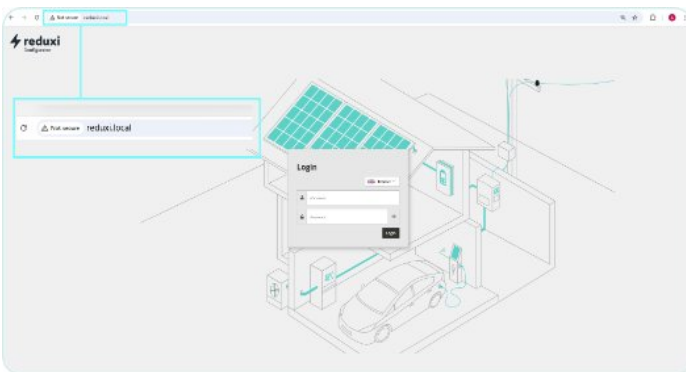
5.2 Via a web browser

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**.

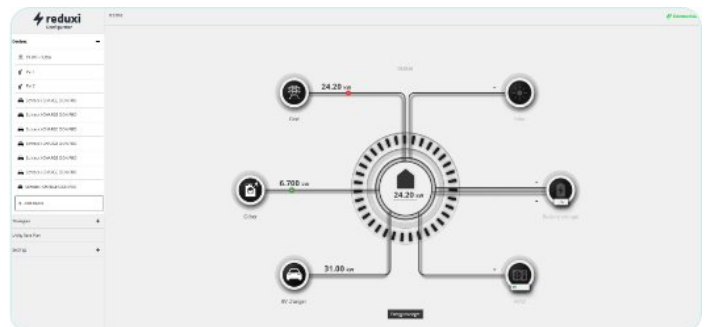
2 Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

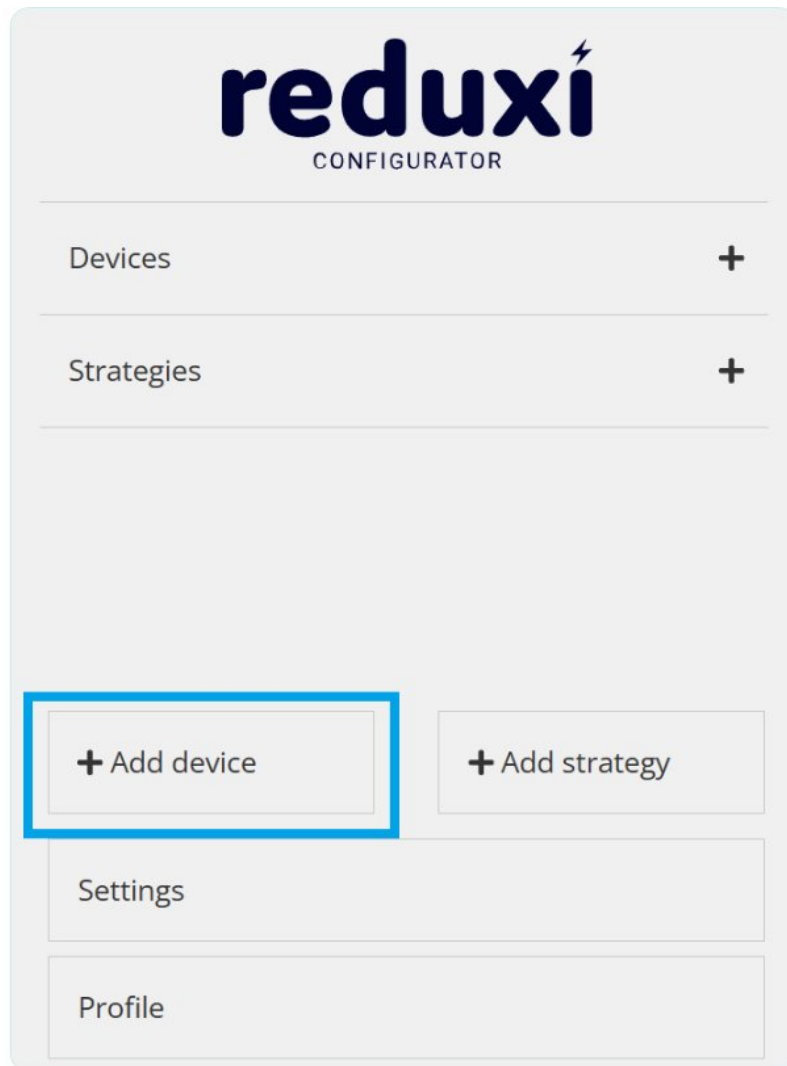
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Screenshot of the Reduxi Configurator web interface

6 Add the Nemo 96 HDLe to Reduxi

6.1 Basic settings

Log in locally to the [Reduxi Configurator](#) (see [Point 5](#)) and click **+ Add device**.



The + Add device button

Text description of this image

In the first step, select the basic settings. You can choose the name of the device yourself.

- Device type: **Energy meter**
- Type: **IME NEMO 96**
- Categories: **Grid**
- Name: a name of your choice, for example **IME NEMO 96**

Basic settings

Device type *

Energy meter

Type *

IME NEMO 96

Categories *

Grid

Name *

IME NEMO 96

Strategy

Measurement devices

Yes

Regulated devices

No

Back

Next

Basic settings: device type, type, category and name

Text description of this image

6.2 Communication settings

In the second step, select the communication channel and enter the device configuration. The values must match the settings of the meter (see [Point 4](#)).

PARAMETER	VALUE
Connection	Local serial port
Port	Port 1
Baud rate	9600 bits/s
Data bits	8
Stop bits	1
Parity	None
Modbus unit ID	Normally 1

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

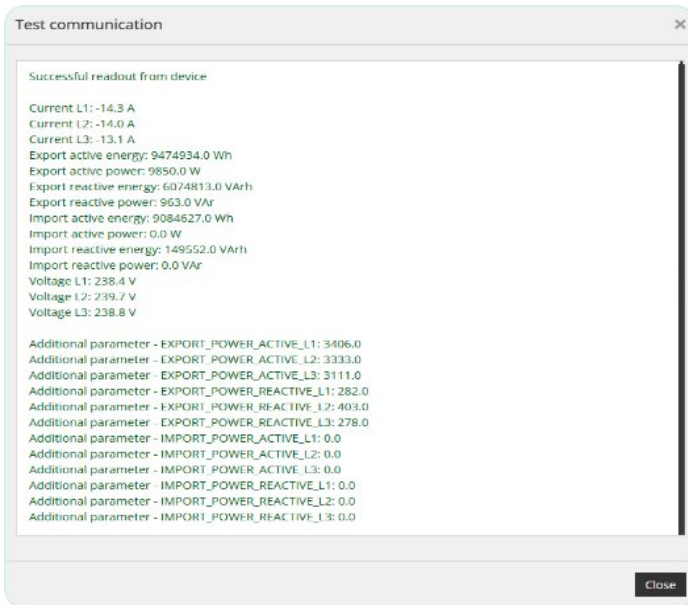
Next

Communication channel and device configuration

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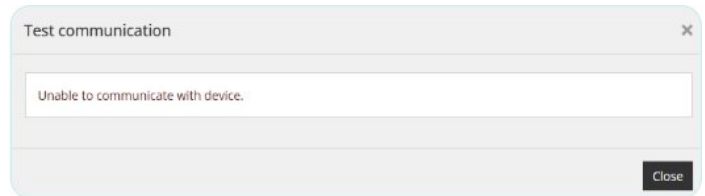
6.3 Test communication

We recommend testing the communication. Click **Test communication** at the lower right, next to **Next**. There are two possible results:



1. Success: nothing more needs to be done here

Text description of this image



2. Failure: check your input and try again

2. Text description of this image

Screenshot of the Reduxi Configurator dialog 'Test communication' (close x at the top right) with the red message 'Unable to communicate with device.' and a dark button 'Close'.

6.4 Advanced settings (optional)

Change the advanced settings only if the site requires it. After you finish all settings, click **Done** at the lower right. Only **Done** creates the device.

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

Back

Done

Advanced settings

Text description of this image

7 Check the readings

7.1 Last measurements

After you click **Done**, open the device in the Reduxi Configurator and check the values under **Last measurements**. Voltage, current and power must match the values on the meter display.

✓ Summary

Preparation (Points 1–2): Get the documentation. Prepare the Nemo 96 HDLe with RS485, the Reduxi Controller, the Modbus RS485 cable and a laptop or tablet.

Nemo 96 HDLe (Points 3–4): Connect Reduxi Port 1 (A to +, B to –) to the RS485 terminals of the meter. Set the same serial parameters on both devices.

meter IME NEMO 96 Energy Test communication and click **Done**.

Go live (Point 7): Check the values under Last measurements.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the wiring: Reduxi port A to + and port B to – (see Point 3). Check that baud rate, parity and Modbus unit ID are the same on the meter and in Reduxi (see Point 4).
No RS485 on the meter	Only the variants MF96421 and MF96422 have the RS485 interface.
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:



IME Nemo 96HDLe on BTicino

Product page of the Nemo 96HDLe with technical sheets and the Modbus protocol document.



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