

How to connect Schneider Electric iEM3000 series energy meter with Reduxi controller

Connect your Schneider Electric iEM3000 energy meter to the Reduxi Controller via Modbus.

🔧 Schneider Electric iEM3000 series · Reduxi Controller

🌐 Modbus

📄 Modbus unit ID normally 1



📄 IN THIS ARTICLE

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1 Technical documentation

The Schneider Electric iEM3000 series are energy meters. According to Schneider Electric, these models have a Modbus interface:

MODEL	MEASUREMENT
iEM3150, iEM3155	Direct connection, 63 A
iEM3250, iEM3255	CT, 1 A / 5 A
iEM3350, iEM3355	Direct connection, 125 A
iEM3455	Low-voltage CT (LVCT)
iEM3555	Rogowski coil

Instructions for connecting and configuring the meter are on the manufacturer web page.

Manufacturer documents:

- [Installation and user guides: iEM3000](#) – Schneider Electric download search for iEM3000
- [iEM3000 User Manual](#) – User manual of the iEM3000 series
- [iEM3100 / iEM3200 / iEM3300 series, User Manual](#) – Features, installation, configuration and communication (Modbus, M-Bus, BACnet, LonWorks)
- [Modbus register address list for iEM3000 series meters](#) – FAQ with the register list as PDF

2 Required equipment

- ☐ Schneider Electric iEM3000 series energy meter with a Modbus interface
- ☐ Data cable between the meter and the Reduxi Controller
- ☐ Reduxi Controller
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Device configuration on the meter

3.1 Modbus settings

Set the Modbus parameters on the meter as described in the Schneider Electric user manual (see [Point 1](#)). The Modbus unit ID is normally [1](#).



Same values in Reduxi

Note the settings of the meter. You enter the same values in Reduxi (see [Point 5](#)).

4 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`



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

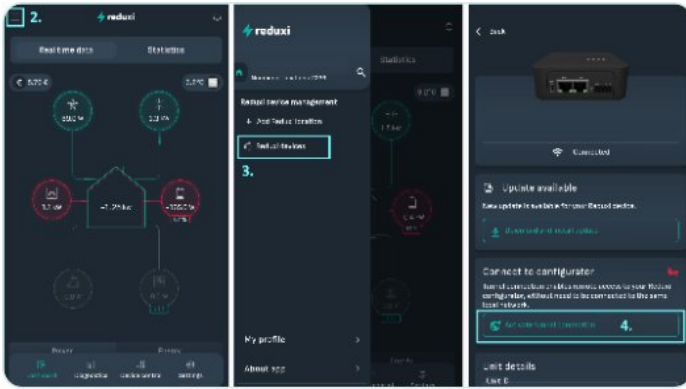
Activate the tunnel connection

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

4

Open the configurator

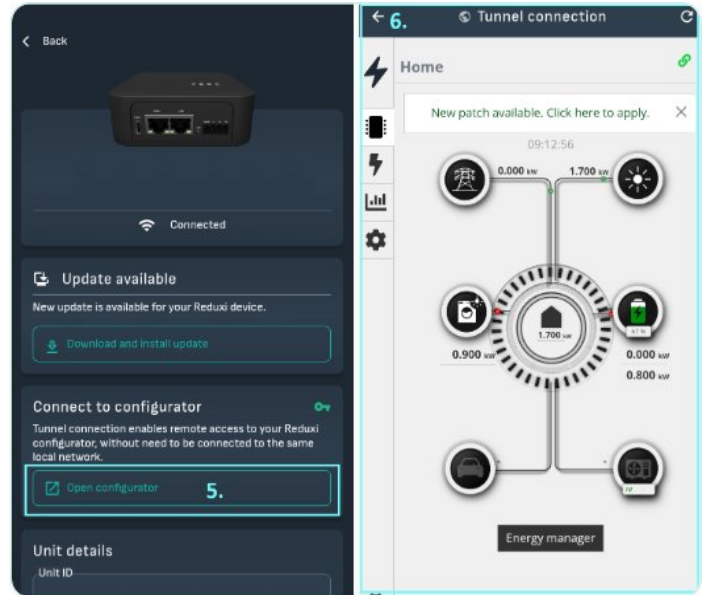
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

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

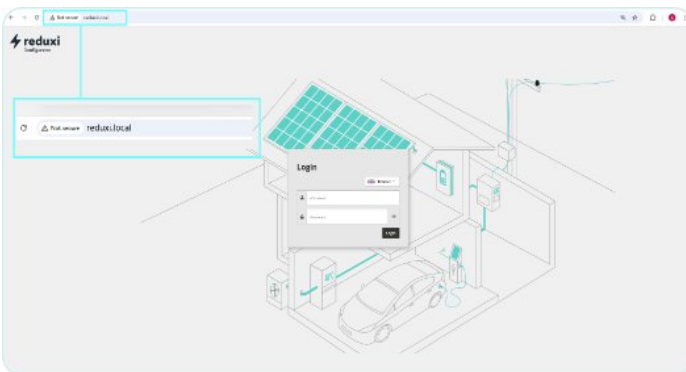
4.2 Via a web browser

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**.

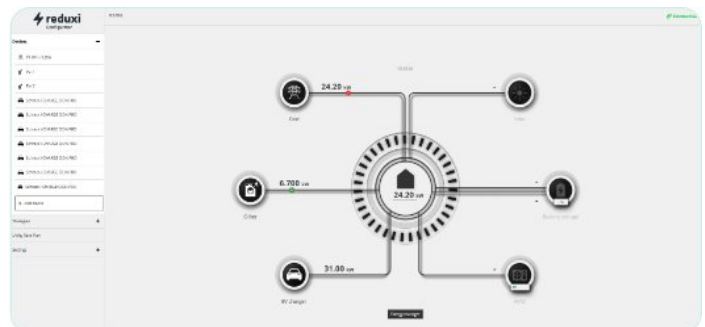
2 Log in

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



Reduxi Controller login screen

Text description of this image



Controller web interface after login

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

5 Add the Schneider Electric iEM3000 meter to Reduxi

5.1 Basic settings

Log in to the [Reduxi Configurator via the browser](#) (see [Point 4](#)).

- Click **+ Add device**.
- Enter the basic settings: device type **Energy meter**, type **Schneider Electric iEM3000 series**, and a name of your choice.
- Press **Next**.

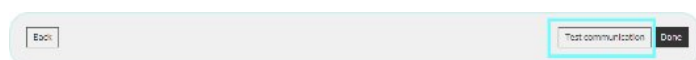
5.2 Communication settings

Select the communication channel and enter the device configuration:

PARAMETER	VALUE
Communication channel	The channel the meter is connected to
Modbus unit ID	Normally 1 . Use the address set on the meter.
Serial parameters	Same values as on the meter (see Point 3)
Advanced settings	Enter and choose them as needed

5.3 Test communication

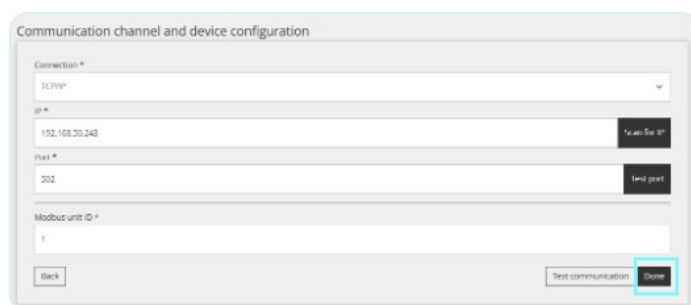
Click **Test communication** at the bottom of the wizard. It reads the Schneider Electric iEM3000 once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



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

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices – Schneider Electric iEM3000** in the Reduxi Configurator.

6.2 Use the meter in a strategy

To use the readings in the Reduxi strategy, define a strategy as described in **Strategies for Reduxi controller**.

✓ Summary

Preparation (Points 1–2): Check that your iEM3000 model has a Modbus interface. Prepare the cable, the controller and a laptop or tablet.

Schneider iEM3000 (Point 3): Set the Modbus parameters on the meter. The Modbus unit ID is normally 1.

meter	Schneider Electric iEM3000 series	Energy
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Go live (Point 6): Check the last measurements and use the meter in your strategy.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the Modbus unit ID (normally 1) and that the serial parameters in Reduxi match the meter. Check the cable. Check that your model has a Modbus 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 admin is rejected	The password was changed during installation. Ask the installer. The Reduxi account password does not work here.
reduxi.local 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:



Schneider Electric iEM3000 User Manual

Installation and configuration of the iEM3000 series



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