

How to connect Junkers SupraEco heat pump with Reduxi controller

Add your Junkers SupraEco heat pump to the Reduxi Controller via EMS-Bus and RS485.

🔧 Junkers SupraEco · Reduxi Controller

🌐 EMS-Bus to RS485 (Modbus)

🔢 Modbus unit ID: normally 1



BOSCH

Technik fürs Leben

📄 IN THIS ARTICLE

1. Technical documentation
2. Required equipment
3. Connect and configure the heat pump
4. Log in to the Reduxi web interface
 - Via the Reduxi app
 - Via a web browser
5. Add the heat pump to Reduxi
 - Basic settings
 - Communication settings
 - Advanced settings
 - Test communication
6. Check the readings
7. Summary
8. Common issues
9. Related articles

1 Technical documentation

Instructions on how to connect and configure the heat pump are on the manufacturer web pages.

- [Operating manual Supraeco SAS 4...15-2 ASE](#) – Bosch Home Comfort, document no. 6721824301, German, covers operation and settings with the HPC 410 control unit
- [Planning guide SupraEco SAS Hybrid HSC](#) – Bosch Home Comfort, document no. 6 720 806 264, German
- [Junkers user manuals](#) – Link from the original article

2 Required equipment

You need these components:

- ☐ Reduxi Controller
- ☐ Reduxi EMS-Bus to RS485 converter
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

3 Connect and configure the heat pump

Connect and configure the Junkers SupraEco as described on the manufacturer web pages. See [Point 1](#).

The heat pump communicates over the EMS-Bus. A Reduxi converter changes the EMS-Bus to RS485 so that the Reduxi Controller can read the device.

MANUFACTURER

Junkers (Bosch)

CONNECTION TO REDUXI

EMS-Bus to RS485 (Modbus)

LEVEL OF INTEGRATION

Read

The values are listed in the List of supported devices.

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

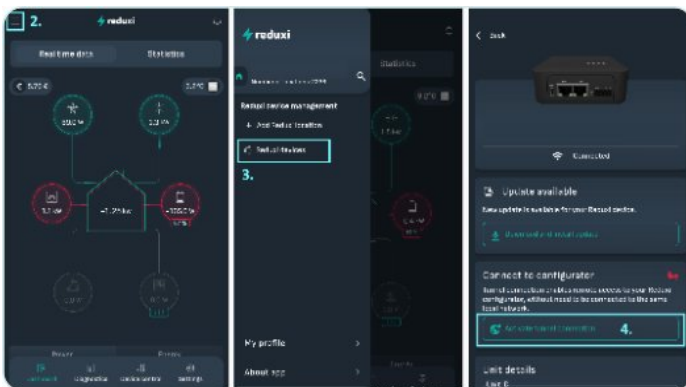
Tap the menu icon (three lines, top left) and select **Reduxi devices**.

3 Activate the tunnel connection

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

4 Open the configurator

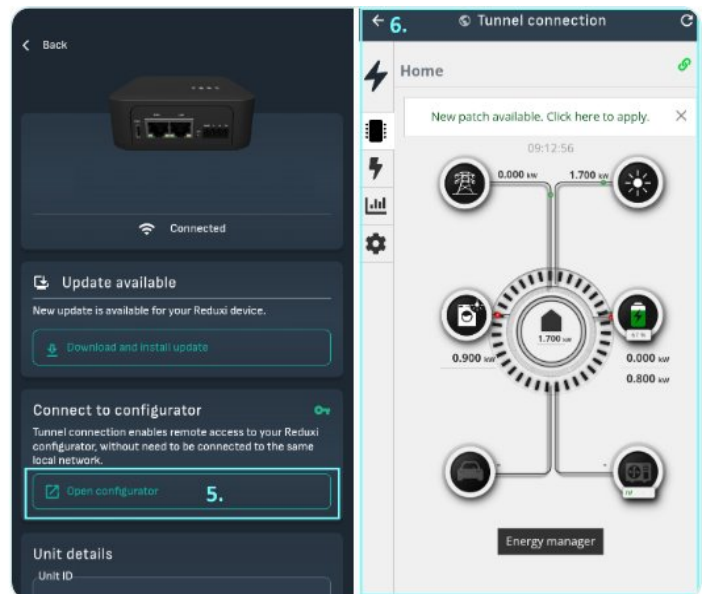
Tap **Open configurator**. The Reduxi web interface opens.



Activate the tunnel connection (step 3)

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

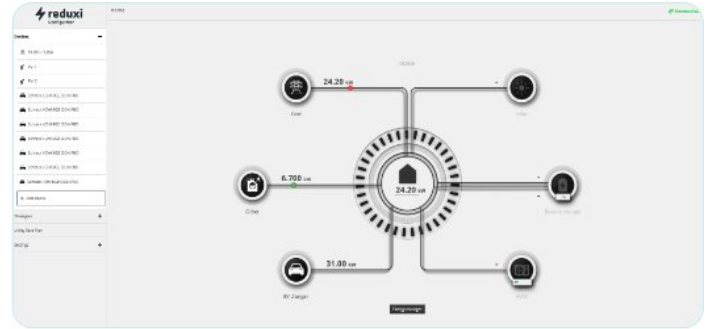
On a device in the same network, open a web browser and enter the controller's IP address or <http://reduxi.local>. You can find the controller's IP address in your router's device list or in the Reduxi app under **Reduxi devices**.

2 Log in

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



Reduxi Controller login screen



Controller web interface after login

Text description of this image

2. Text description of this image

Screenshot of the Reduxi Configurator web interface

5 Add the heat pump to Reduxi

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

5.1 Basic settings

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

Enter the basic settings of the device:

- Device type: **HVAC**
- Type: the **EMS Bus - Boiler** entry, which includes SupraEco, as named in the List of supported devices
- Name: a name of your choice, for example **Junkers SupraEco**

5.2 Communication settings

Select the communication channel and enter the device configuration:

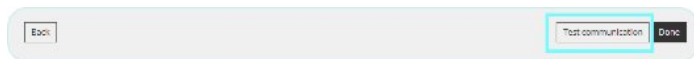
PARAMETER	VALUE
Communication channel	RS485
Modbus unit ID	Normally 1

5.3 Advanced settings

Enter and choose the advanced settings.

5.4 Test communication

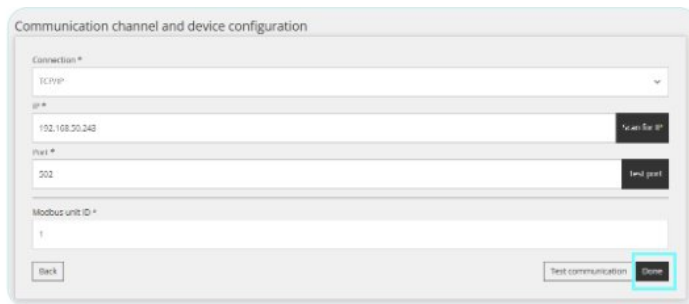
Click **Test communication** at the bottom of the wizard. It reads the Junkers SupraEco once and saves nothing. If the test succeeds, click **Done**: only **Done** creates the device.



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

Communication channel and device configuration

6 Check the readings

6.1 Last measurements

After communication is established, check the values under **Devices – Junkers SupraEco** in the Reduxi Configurator as an additional test.

6.2 Control by Reduxi

The List of supported devices shows the level of integration **Read** for the EMS-Bus entry that includes SupraEco. Reduxi reads the values of the device. It does not control it.

✓ Summary

Preparation (Points 1–2): Open the Bosch and Junkers documents. Prepare the controller, the EMS-Bus to RS485 converter and a laptop or tablet.

Junkers SupraEco (Point 3): Connect and configure the heat pump as described by the manufacturer. The converter changes the EMS-Bus to RS485.

Add to Reduxi (Points 4–5): Log in to the Reduxi web interface. Click + Add device, enter the basic settings, the communication settings and the advanced settings. Run Test communication and click Done.

Go live (Point 6): Check the readings under Devices. Reduxi reads the values of the heat pump.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the Modbus unit ID. Normally <code>1</code> is used. Check that the communication channel is <code>RS485</code> .
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:



Operating manual Supraeco SAS 4...15-2 ASE

Manual from Bosch Home Comfort (German)



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