

How to connect Bosch Sense II heat pump with Reduxi controller

Add the Worcester Bosch Greenstar Sense II to the Reduxi Controller.

🔧 Worcester Bosch Greenstar Sense II · Reduxi Controller

📖 Modbus unit ID: normally 1



Worcester Bosch Greenstar Sense controls

Text description of this image

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1 Technical documentation

The manufacturer describes how to connect and configure the device in its literature.

- [Greenstar Sense II Installation Manual](#) – Worcester Bosch, installation instructions (PDF)
- [Worcester Bosch literature search for Sense](#) – Manufacturer literature page

2 Prepare the device

| 2.1 Required equipment

- ☐ Reduxi Controller
- ☐ Greenstar Sense II, installed and configured as described by the manufacturer (see [Point 1](#))
- ☐ Laptop or tablet with internet access to configure the device in Reduxi

| 2.2 About the Greenstar Sense II

Facts from the manufacturer documentation:

- The Greenstar Sense II is a Worcester Bosch weather-compensation controller with a touch-sensitive display.
- It controls up to four heating circuits and two cylinder primary circuits.
- It communicates with the heat source via an EMS 2 BUS or a 2-wire BUS interface.
- It is powered over a 2-core BUS cable at 10–24 V DC. Polarity does not matter.



Note

The manufacturer documents do not list a Modbus interface for this device. Follow the manufacturer instructions in Point 1 to connect and configure it.

3 Connect and configure the device

Follow the connection and configuration instructions of the manufacturer (see [Point 1](#)).

Keep the Modbus unit ID of the device ready. Normally, **1** is used.

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

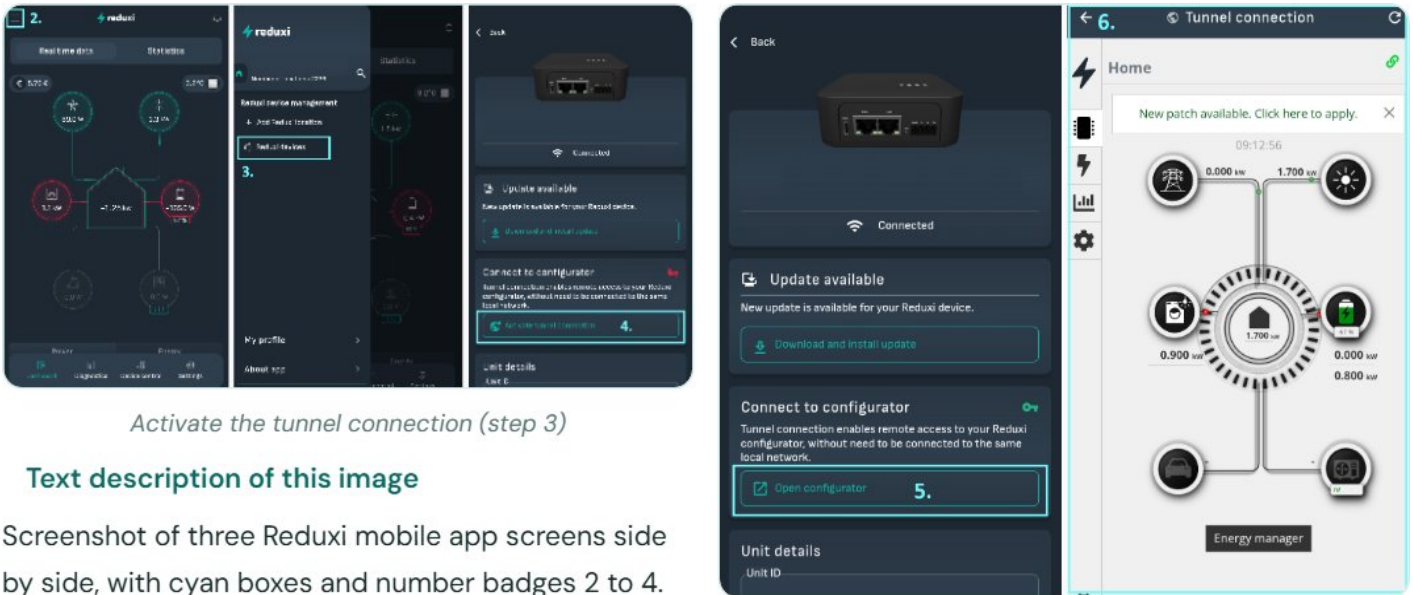
Activate the tunnel connection

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. Middle screen (settings): 'Open configurator' highlighted with a cyan box and badge 3. Right screen (update available): 'Open configurator' highlighted with a cyan box and badge 4.

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

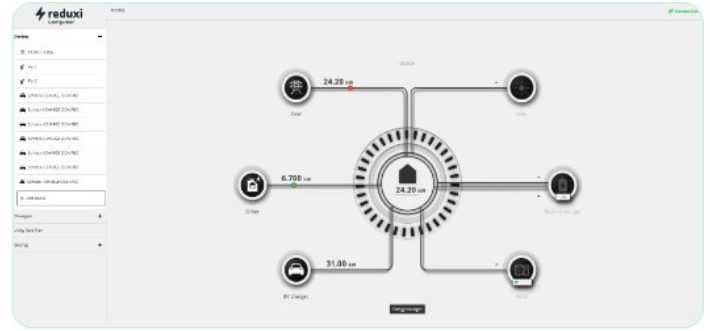
Log in

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 device to Reduxi

Use these steps to add a new device 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: select the device type and type that match your device and enter a name of your choice.

5.2 Communication settings

Select the communication channel and enter the device configuration:

PARAMETER	VALUE
Communication channel	The channel the device is connected through

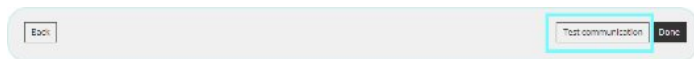
Modbus unit ID Normally **1**

5.3 Advanced settings

Enter and choose the advanced settings of the device.

5.4 Test communication

Click **Test communication** at the bottom of the wizard. It reads the Greenstar Sense II 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** in the Reduxi Configurator as an additional test.

6.2 Enable control by Reduxi

Under **Devices** in the Reduxi Configurator, set the **control type** of the device to **AUTO**. Only then do strategy commands affect the device.

To reduce energy costs with dynamic prices and dynamic tariffs, define a strategy as described in [Strategies for Reduxi controller](#).

✓ Summary

Preparation (Points 1–2): Find the manufacturer documentation and prepare the device and the Reduxi Controller.

Greenstar Sense II (Point 3): Connect and configure the device as the manufacturer describes. Note the Modbus unit ID (normally 1).

Add to Reduxi (Points 4–5): Log in to the Reduxi Configurator, add the device and test the communication.

Go live (Point 6): Check the readings and set the control type to AUTO.

→ Common issues

ISSUE	SOLUTION
Test communication fails	Check the Modbus unit ID of the device. Normally, 1 is used. Check the communication channel and the connection.
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:



Worcester Bosch literature

Manufacturer manuals and installation instructions.



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