

How to connect Huawei SUN2000 (Smart Dongle WLAN-FE / 4G) with Reduxi controller

Set up the Huawei Smart Dongle on a SUN2000 inverter: local connection, internet access and available functions.

🔌 Huawei SUN2000 · Smart Dongle (WLAN FE / 4G)

📶 Home Wi-Fi or 4G (SIM)

🌐 Local web address 192.168.200.1



Huawei Smart Dongle

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1 Physical setup

1.1 Required equipment

- ☐ Huawei SUN2000 inverter
- ☐ Huawei Smart Dongle (WLAN FE or 4G)
- ☐ Mobile device with Wi-Fi and the FusionSolar app
- ☐ Home Wi-Fi password (for a Wi-Fi connection) or SIM card and APN from the mobile network operator (for 4G)

1.2 Install the dongle

1 Switch on the inverter

Switch **ON** the inverter.

2 Insert the dongle

Insert the dongle into the **USB/COM** port.

3 Wait

Wait approximately **1–2 minutes**.



WLAN FE

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4G

2. Text description of this image



Indicator

The LED on the dongle starts **blinking**. This confirms that the dongle is active.

2 Local connection to the dongle (Wi-Fi method)

2.1 Connect to the dongle network

On your mobile device, open the **Wi-Fi settings** and connect to one of these networks:

- SUN2000-XXXX
- Dongle-XXXX

The password is on the **dongle sticker** or on the **inverter label**.

2.2 Access through the app

1

Open the app

Open the **FusionSolar** application.

2

Start local access

Select "**Commissioning**" or "**Local Access**".

2.3 Log in

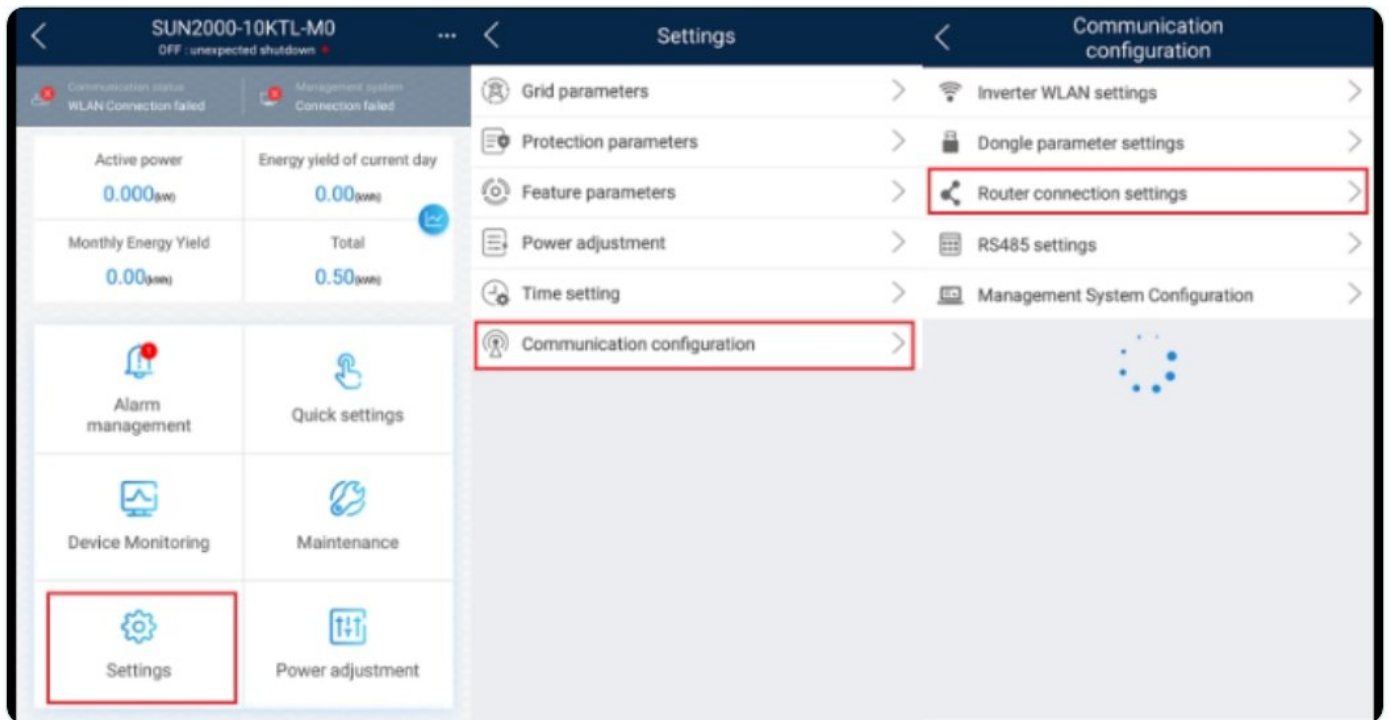
Default login credentials:

- Username: **installer**
- Password: printed on the device label

3 Initial configuration

3.1 Set up internet access

In the FusionSolar app, choose the method of external communication: **Settings – Communication configuration – Router connection settings**.



Communication configuration in the FusionSolar app

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3.2 Option A: connect via home Wi-Fi

- 1 **Open the settings**
Open **Communication Settings**.
- 2 **Select the network**
Select the home Wi-Fi network.
- 3 **Enter the password**
Enter the Wi-Fi password.
- 4 **Save**
Save the configuration.

3.3 Option B: connect via 4G (SIM)

- 1 **Enter the APN**
Enter the **APN** provided by the mobile network operator.

2

Enter user data

Enter **Username/Password** if required. Usually these fields stay blank.

3

Save

Save the configuration.

3.4 Confirm the internet connection

The communication status must show:

- **Online**
- A visible **signal strength**

4 Alternative access via web browser

Use a web browser instead of the FusionSolar app:

1

Connect to the dongle Wi-Fi

Connect to the Wi-Fi network of the dongle.

2

Open a browser

Open a web browser.

3

Enter the address

Enter `http://192.168.200.1`

4

Log in

Log in with the same installer credentials.

5 Available functions after connection

After you connect to the inverter through the dongle interface, these functions are available.

5.1 System monitoring

- Real-time power output (kW)
- Daily, monthly and annual production (kWh)
- Historical trends and graphs

5.2 System status overview

- Inverter operating status
- Faults and alarms
- Warning messages

5.3 Performance optimization

- Detection of underperforming panels
- Identification of shading or module faults

5.4 Advanced configuration

Some parameters need installer access.

- Grid settings
- Export power limitation
- Battery parameters (if applicable)

5.5 Battery management (if installed)

- Charge and discharge monitoring
- Operating modes: self-consumption, backup, time-of-use

5.6 Remote monitoring

When the system is online, it is visible in the **FusionSolar Cloud**. This gives you:

- Remote access from anywhere
- Push notifications in case of faults

6 Security recommendations

- Change the default password after the first login.
- Do not share the installer credentials.
- Keep the inverter and dongle firmware up to date.

✓ Summary

Preparation (Point 1): Switch on the inverter, insert the dongle into the USB/COM port and wait 1–2 minutes.

Local connection (Points 2 and 4): Connect to the dongle Wi-Fi and log in as installer in the FusionSolar app or at 192.168.200.1.

Internet access (Point 3): Connect the dongle to home Wi-Fi or to 4G with the APN. The status must show Online.

Use and secure (Points 5–6): Use monitoring, configuration and the FusionSolar Cloud. Change the default password.

→ Common issues

ISSUE	SOLUTION
Dongle Wi-Fi network not visible	Reinsert the dongle. Restart the inverter. Wait 2–3 minutes.
Login failed	Verify the password on the device label. Try the default installer credentials.
No internet connection	Check the Wi-Fi password, the signal strength and, for 4G, the APN.
App cannot connect	Disable mobile data while your device is connected to the dongle Wi-Fi.

→ Related articles

Matching guides from the Reduxi knowledge base:



Huawei Smart Dongle-WLAN-FE

Specifications of the Huawei Smart Dongle.



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