# 2. Modbus TCP setup

> **Important**
>
> This type of connection is only possible if a Huawei WLAN-FE Smart Dongle is plugged to the inverter and the inverter built in wifi antenna is disconnected.
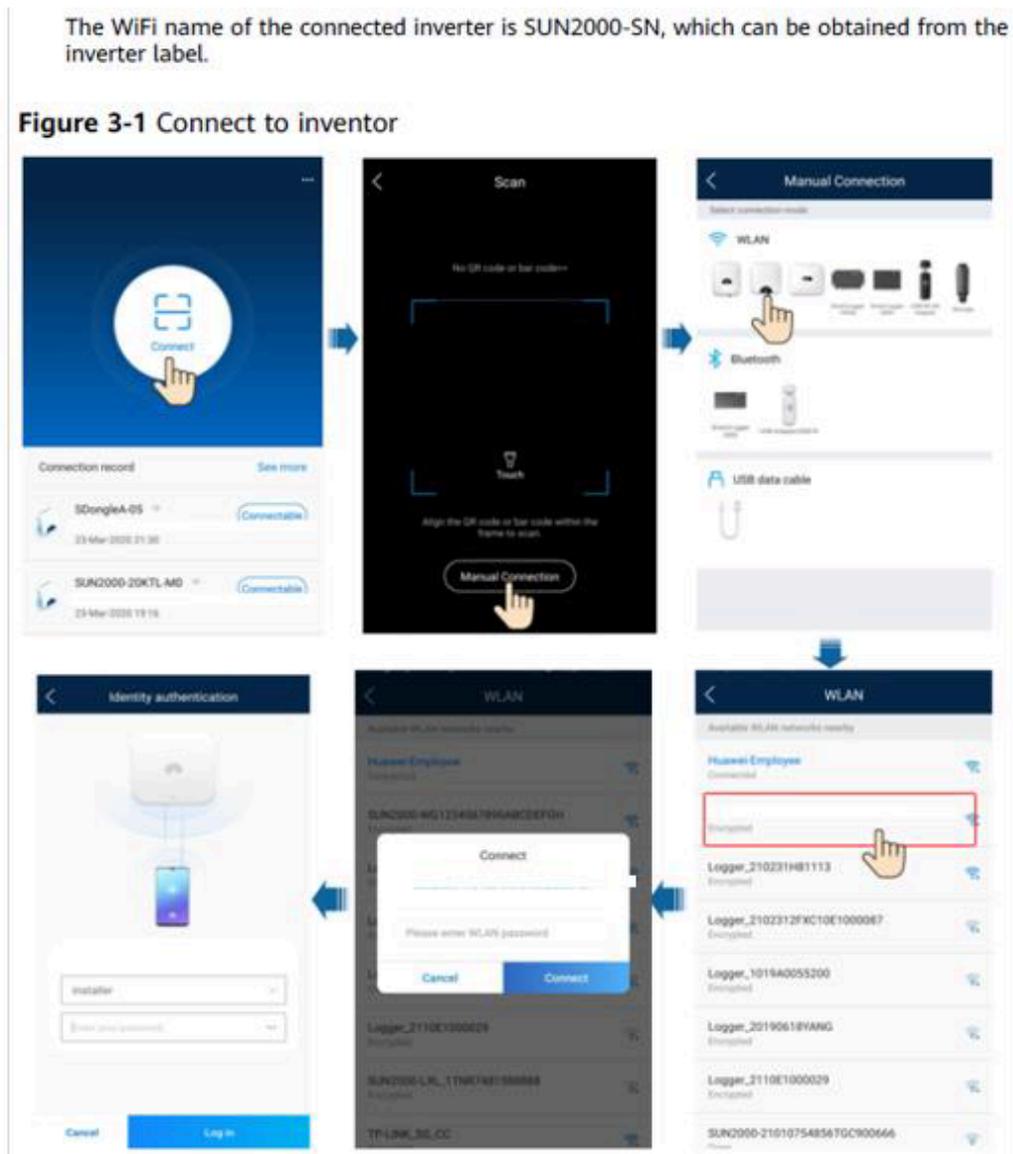
1. Open the Huawei SUN2000 app

Download the app

2. Connect the SUN2000 APP to the inverter Wi-Fi hotspot

Select manual connection and follow the steps, use the default password "**Changeme**" for the first login

> **Attention**
>
> Turn off the phone mobile data or else the inverter will not be found by the app.

The WiFi name of the connected inverter is SUN2000-SN, which can be obtained from the inverter label.

**Figure 3-1** Connect to inventor



3. Log in to the inverter

Select installer, and enter the correct password, which defaults to "**00000a**"

> **Attention**
>
> If the password is not the default one, you can reset it by following the Manufactor guide. Be sure to get the owner authorization prior to do it.

Manufactor guide for password reset

4. Enable Modbus

On the home page, select:

Settings >> Communication configuration >> Dongle parameter settings >> Modbus-TCP >> Enable (unrestricted)

5. The inverter will be detected in the next 5 minutes by the FlexiObox, if that's not the case, check if the inverter and dongle firmware versions are at the minimum required:

Ensure that the firmware versions for inverter and dongle are at least the following:

Huawei firmware versions

| Device | Minimum Version Number |
|---|---|
| SDongle-05 | V100R001C00SPC127 |
| SUN2000L | V200R001C00SPC115 |
| SUN2000MA | V100R001C00SPC139 |

- Check the inverter firmware version

Connect the SUN2000 app to the inverter Wi-Fi hotspot and in the home page select:

Maintenance >> Upgrade device >> Current version

If a firmware upgrade is necessary, connect the inverter to the internet, and then, on the same screen, pick the package that appears on the list.

- Check the dongle firmware Version

Connect the SUN2000 app to the dongle Wi-Fi hotspot, enabled on the first 3 minutes after power on (same steps has connecting to the inverter but choose dongle instead), and on the home page select:

Maintenance >> Upgrade device >> Current version

If needed you can upgrade the dongle firmware by selecting:

Upgrade >> Manually

If a firmware update is necessary, download the most recent dongle firmware to your smartphone and then pick the file from your smartphone filesystem and follow the app steps.