SIGWT-3 | WIRELESS INTERNET GATEWAY

User Guide



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1. ARTICLE CODES

This document explains how a Sentera internet gateway can be connected to a local Wi-Fi network and how to connect devices to the internet gateway. The document applies to Sentera's wireless internet gateway **SIGWT-3**.

This gateway facilitates remote access, enabling users to monitor data, adjust settings and perform data logging for connected HVAC devices. It serves as a bridge between Sentera devices and the cloud-based SenteraWeb platform, enhancing the functionality and accessibility of HVAC systems.

To enable communication between the gateway and the SenteraWeb cloud, the Sentera internet gateway must be granted access to the following destinations:

- www.senteraweb.eu
- senteraweb.eu
- broker.senteraweb.eu

In addition, the SenteraWeb cloud must be able to send messages to the internet gateway to guarantee proper functioning. Therefore, the following ports must be open on the router:

- 80 – HTTP protocol
- 443 – HTTPS protocol
- 1883 – MQTT (without TLS)
- 8883 – MQTT over TLS

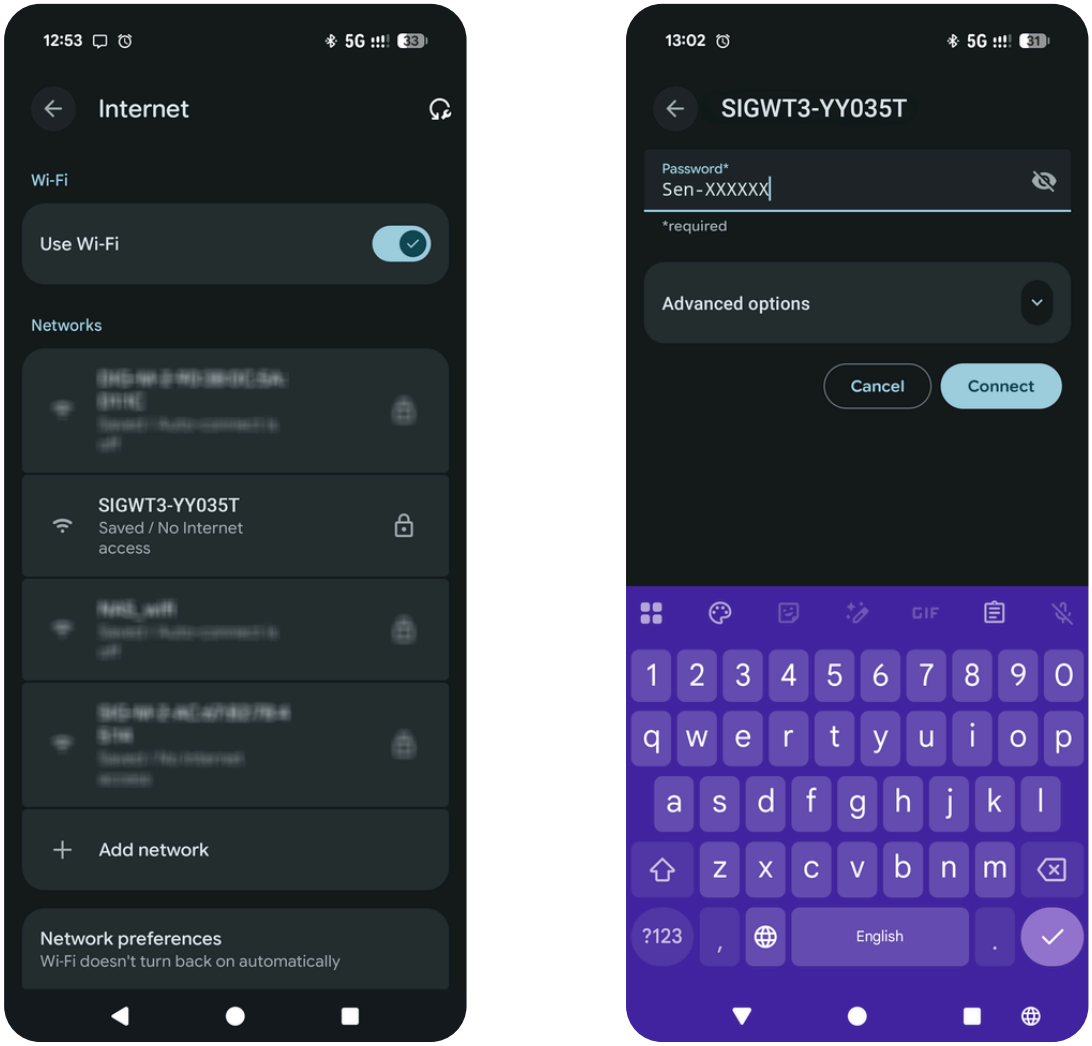
2. CONNECT THE INTERNET GATEWAY TO THE WI-FI NETWORK

- Connect the power supply.
- By default, the blue LED of the internet gateway lights up. This indicates that there is no connection to the Wi-Fi network.
- To adjust the settings of the internet gateway, proceed as follows:
  - Using your computer or mobile device, scan for available Wi-Fi networks (see **Fig. 1**).
  - Connect to the Sentera internet gateway SIGWT3-XXXXXX, where XXXXXX is the last 6 digits of the gateway serial number. SIGWT3 depends on the software version and uses the password Sen-XXXXXX, where XXXXXX is the first six digits of the gateway serial number (see **Fig. 3**).

⚠ WARNING

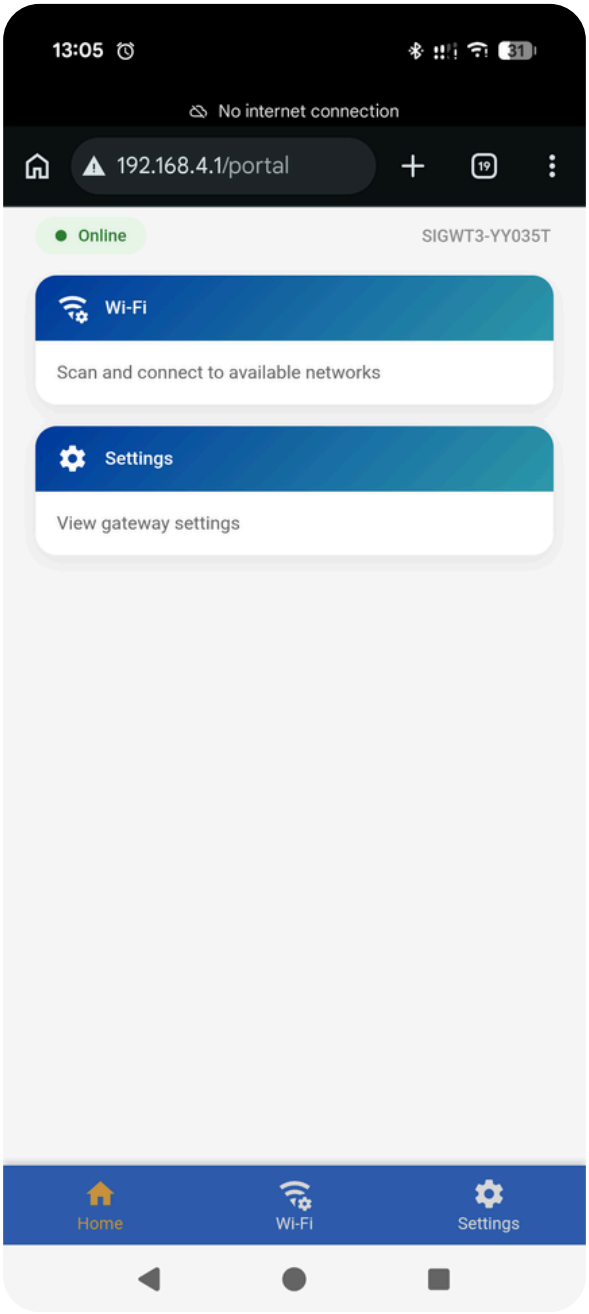
Communication will not work unless the firewall and router are configured correctly. When the LED on the internet gateway turns green, this indicates that communication between the gateway and the SenteraWeb cloud platform has been established.

Fig. 1 Wiring and connections



- Open the internet browser on your mobile device or computer and enter the following URL: 192.168.4.1
- This brings you to the internal host page of the Sentera internet gateway (See **Fig. 2**).
- Go to the "Wi-Fi" tab and click "Scan Networks".
- Select the Wi-Fi network to which you want to connect your gateway.
- Enter the password of the selected Wi-Fi network.
- Click “Connect”.
- Now your internet gateway is connected to the Wi-Fi network. The green LED lights up.
- The internal host page is no longer available. If something goes wrong or if you want to select a different Wi-Fi network, press and hold the Wi-Fi reset button for 5 seconds. Then, repeat the setup procedure.

Fig. 2 Host page of the Sentera internet gateway



3. OPEN SENTERAWEB

The installation is now ready to be set up via SenteraWeb.

Follow these steps:

1. Create your account on SenteraWeb.
2. Log in via: https://www.senteraweb.eu/en/Account/Login.
3. Disconnect the supply voltage and connect all devices.
4. Connect the supply voltage.
5. Make sure that all of the devices you want to add to your installation are powered and connected (via Modbus RTU) to the Sentera internet gateway. All connected devices must have ID1. While creating the installation, the internet gateway will automatically assign new ID's to all connected devices with ID1.
6. Create your installation by entering the serial number of the gateway (see **Fig. 3**).

Fig. 3 Serial number of the gateway



NOTE

SenteraWeb assigns a new Modbus ID to every new device (ID1) that is added to the installation and resets it to 1 when the device is removed from the installation.