HOOC CONNECT F
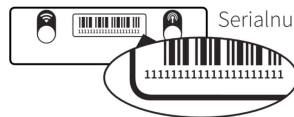
Manual

STEP 1

CLICK

Power supply | PORT 1

Connect the network cable Port 1 to the Internet and connect the power supply. Network port 2 can be used for the configuration of the device.

STEP 2

- www.hooc.ch/connect
- Login
- Add site
- Link HOOC Connect

Serialnumber

1111111111111111111

STEP 3

- Open URL 192.168.2.1
- Configure HOOC Connect

HOOC Connect F Technical Data

Supply	Supply voltage	DC 5~36V
	Power consumption	Max. 2.95W@12VDC
	Current consumption	120mA@12VDC
Temperature	Operation	-20°C to +70°C
	Storage	-40°C to +75°C
Design	Dimensions	110 x 29 x 100mm (HxWxD)
	DIN rail or wall mounting	
Certification	CE/RoHs	
LoRa Network	Frequency	863-870 MHz (EU863-870)
	RF Output power	863-870 MHz 20 dBm
	Receive max sensitivity	-137 dB @ SF12
	Supported class	A / C
WIFI Network	802.11b/g/n	
Network	Port 1	WAN (DHCP Client)
	Port 2	192.168.2.1/24

Interfaces and controls
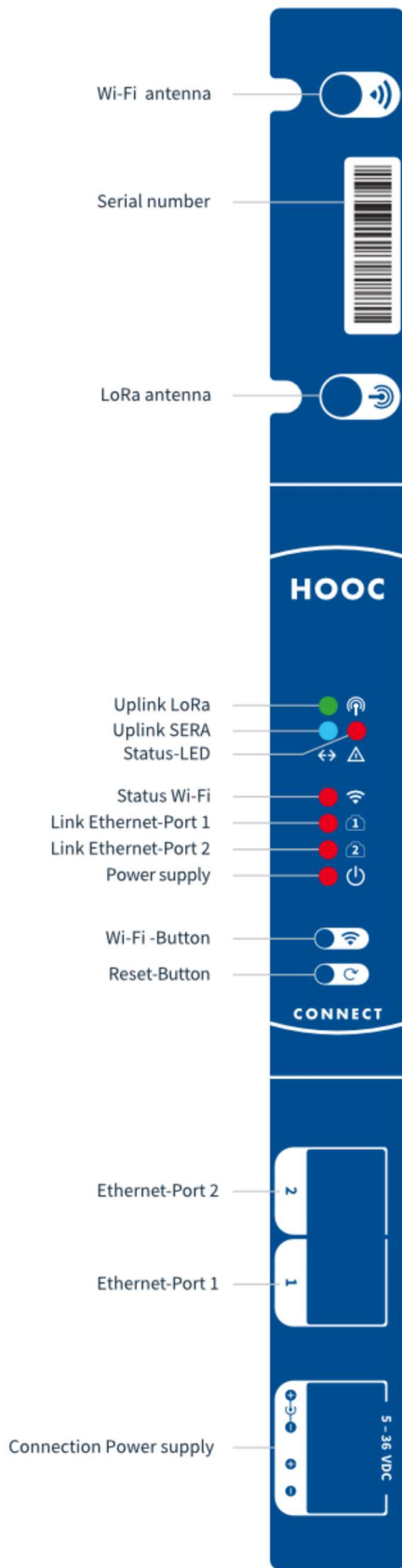
Uplink LoRaWAN

	LoRaWAN switched off
	LoRaWAN initializing
	LoRaWAN RF activity
	LoRaWAN connected

Uplink SERA

	SERA switched off
	SERA connecting
	SERA standby mode
	SERA connected (normal operation)

Status LED

	Normal operation
	No connection to the internet
	Can't obtian an IP address
	Default gatway is unreachable
	DNS server is unreachable
	No connection to HOOC Cloud
	General error
	Configuration mode is active

Status Wi-Fi

	Wi-Fi off
	Wi-Fi Client connecting / Access Point not available
	Wi-Fi Client connected / Access Point off
	Wi-Fi Client connected / Access Point on
	Wi-Fi Client disconnected / Access Point on

Wi-Fi-Button

🕐	1 Sek.	Wi-Fi Access Point On/Off

Reset-Button

🕐	1 Sek.	Enable configuration mode
🕐	5 Sek.	Restart gateway
🕐	15 Sek.	Reset to factory settings

Device labels

- Wi-Fi antenna
- Serial number
- LoRa antenna
- HOOC
- Uplink LoRa
- Uplink SERA
- Status-LED
- Status Wi-Fi
- Link Ethernet-Port 1
- Link Ethernet-Port 2
- Power supply
- Wi-Fi -Button
- Reset-Button
- CONNECT
- Ethernet-Port 2
- Ethernet-Port 1
- Connection Power supply
- 5 – 36 VDC

Configuration

The configuration of the HOOC Gateways (F series) can be done via browser.

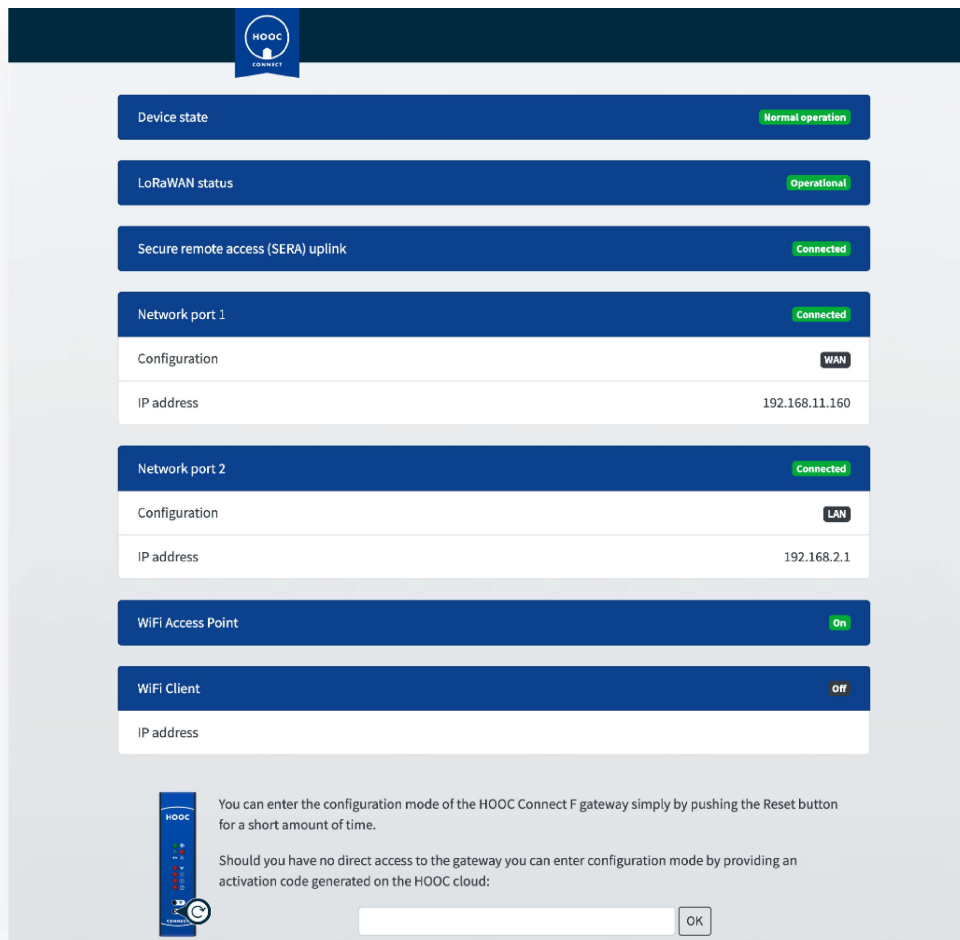# Establish connection to the HOOC Gateway

Follow the instructions below to connect (your PC) to the HOOC Gateway:

1. Connect the HOOC Gateway to the power supply
2. Connect your PC to the **network port 2 of the HOOC Gateway**
3. Wait until the device has started up (approx. 1min)
4. In your browser (use *Google Chrome*), open the URL **192.168.2.1**

Configuration mode

Enter configuration mode

Local

The configuration mode can be activated by pressing the reset button briefly (1 sec).

from Remote

The configuration mode can be activated remotely with the HOOC App. The activation code of a HOOC Gateway can be generated either in the sites overview or in the menu "Secure Remote Access".
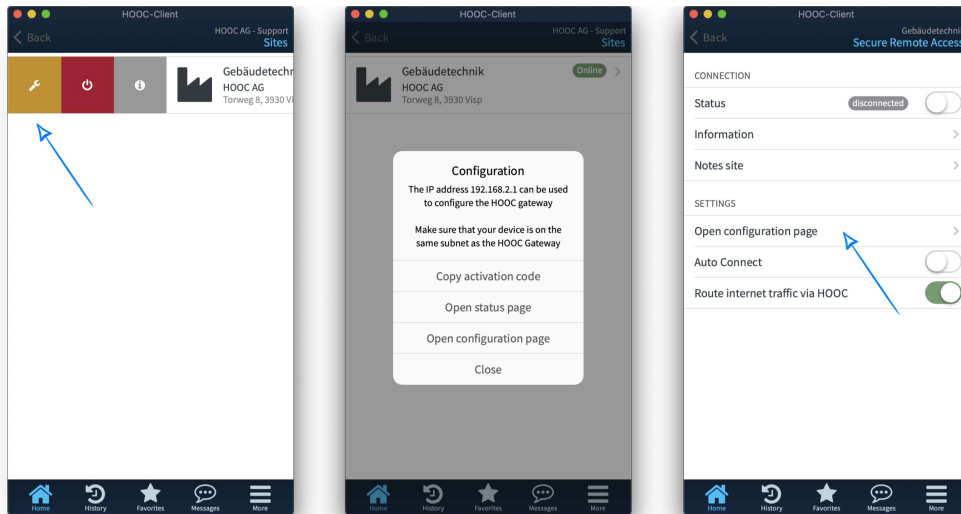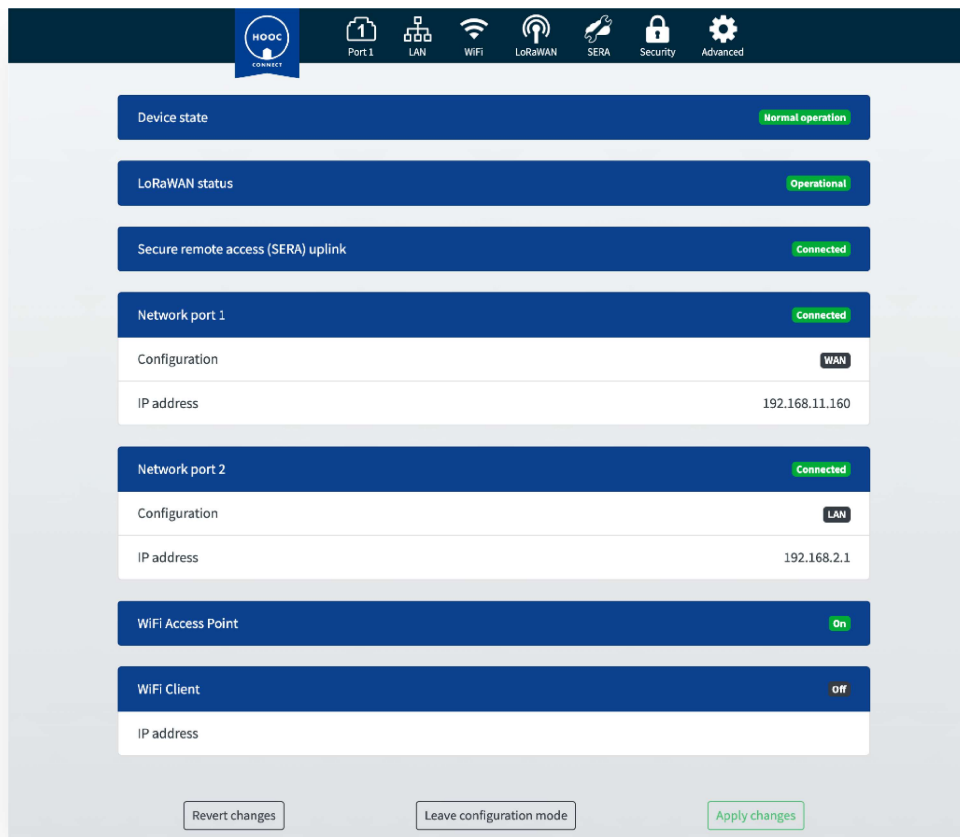
The generated code can now be used to activate the configuration mode.
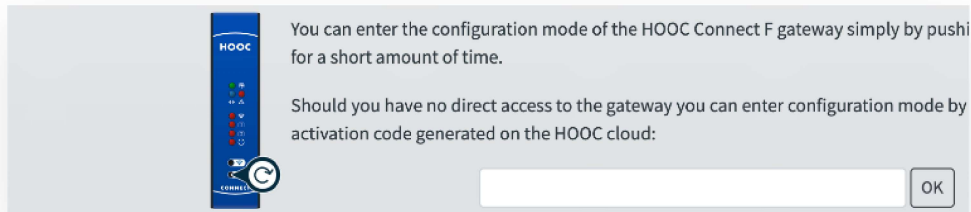
If the configuration mode is active, the status LED (red) lights up continuously.

Exit configuration mode

The configuration mode can be deactivated by pressing the **Leave configuration mode** item, or it automatically dactivates 30 seconds after disconnecting from the configuration page.

> **ℹ Info**
>
> If the configuration mode is inactive, the status LED (red) **does not** light up continuously.

Apply configuration

Once new settings have been made, they can be transferred to the HOOC Gateway by clicking on the **Apply changes** element.

> **ℹ Info**
>
> If changes are made to the LAN network, make sure that you remeber to use the the new IP address set for network port 2 as the URL for further configuration.

Configuration Network port 1

The **network port 1** by default si defined as WAN port and receives an IP address via DHCP. If required, this IP address can be defined statically. When used as a WAN port, the Internet traffic is sent via this interface.

When the WAN function is **disabled**, network port 1 acts as additional **LAN network port** (switch functionality with network port 2).

Configuration LAN
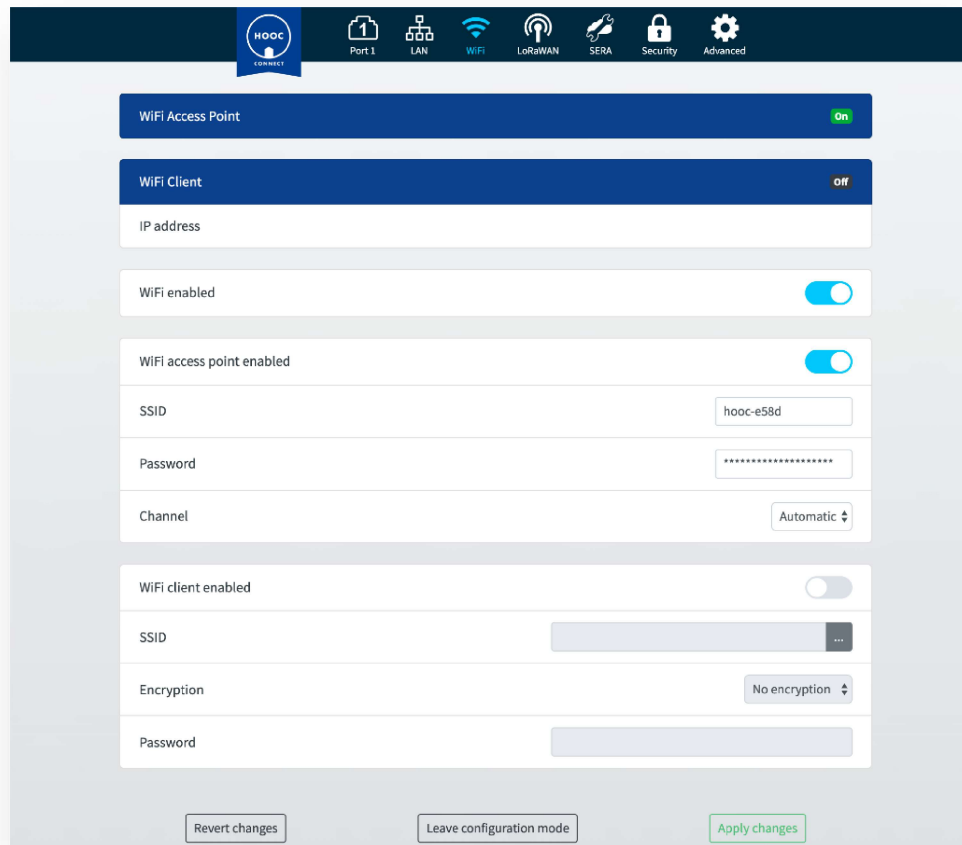
The **network port 2 is always in the LAN network**. The gateway address of the LAN network can be entered in the *"IP Address "* field.

The DHCP server in the LAN network is activated onby default and distributes addresses in the range 100-250.

Configuration Wi-Fi

The WiFi can be used as an access point for the LAN network. The **password** corresponds to the **serial number** of the gateway and by default it is **switched off**.

ⓘ Info

WiFi can be turned on and off by **pressing the WiFi button (front panel device) briefly** when the device is not in configuration mode.

The Wi-Fi module provides an access point. The access point uses the LAN network. The **password** is the same as the **serial number** of the gateway at delivery and is turned on.
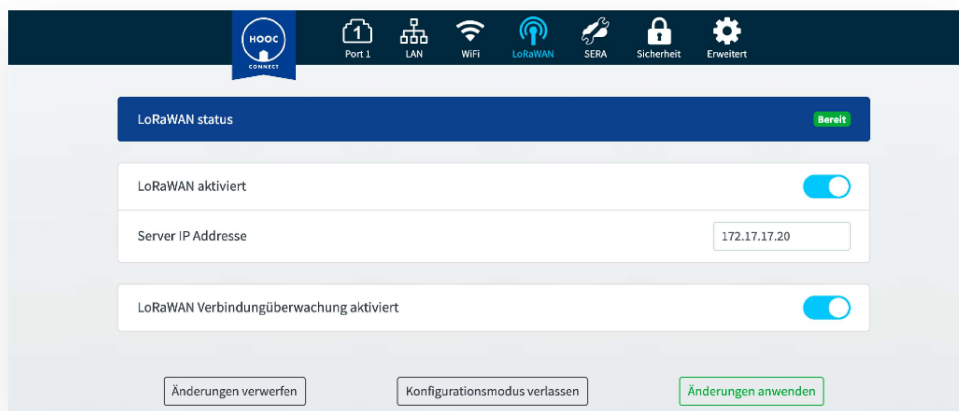
The Wi-Fi access point can be turned **on and off** by **briefly pressing** the Wi-Fi button (front panel device), if the device is not in configuration mode and the *"WiFi enabled"* option is set.

Furthermore, the Wi-Fi module (**from firmware 3.0.0**) offers the possibility to use a Wi-Fi client. Thus the connection to the Internet can also be made via Wi-Fi.

The Wi-Fi module provides only one channel. If you are using the Wi-Fi client and it is not to the configured SSID (network), the Wi-Fi access point will not work either.

Konfiguration LoRaWAN

The integrated LoRaWAN module is based on the Semtec SX1301 chipset. It enables LoRaWAN connectivity to the HOOC solution.

The service IP address of the *Secure Remote Control* service can be used as server IP address.

If only one HOOC Connect F is used as LoRaWAN Gateway in a system, the default server IP address 172.17.17.20 can be used. This IP address is automatically provided by the *Secure Remote Control* service.

When the option *"LoRaWAN connection monitoring activated "* is activated, the LoRaWAN activity is monitored. If the device does not receive a LoRaWAN packet for more than 4h, the device will be restarted.

# SERA Settings
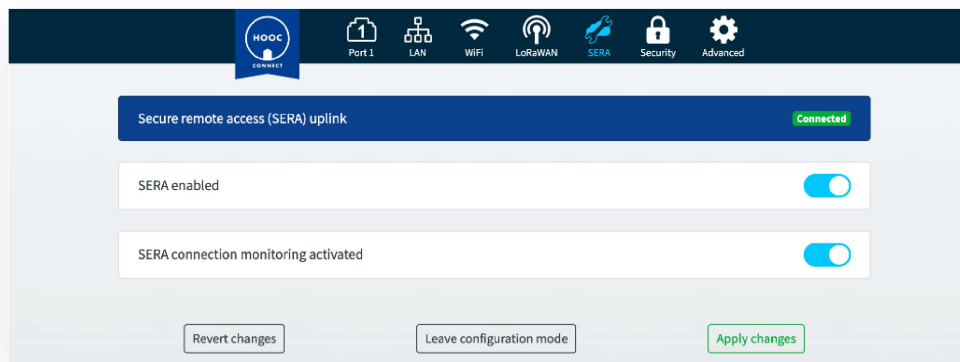
SERA can be activated or deactivated here.

The connection to the HOOC-Cloud can be enabled or disabled. Further, when you switch on the Option *"SERA connection monitoring activated "* monitors the connection to the HOOC-Cloud. If more than 4 hours no connection to the HOOC-Cloud can be established, the device is restarted.

Deactivating will prevent the HOOC Gateway to connect to the HOOC Cloud and the services of HOOC will no longer be usable.

Security Settings
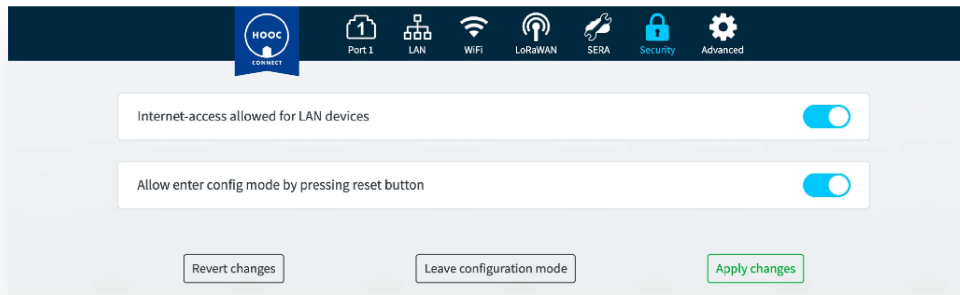
The setting *"nternet-access allowed for LAN devices"* allows you to allow connections from devices from the LAN network to the Internet.

When deactivating the setting *"Allow enter config mode by pressing reset button"*, the configuration mode cannot be more can be activated with the reset button **(local)**. The activation of the configuration mode can only be done with an activation code take place. Thus, persons without access authorization to the *site* cannot reconfigure the device.

Advanced Settings

The advanced settings shows the device status and the device information.
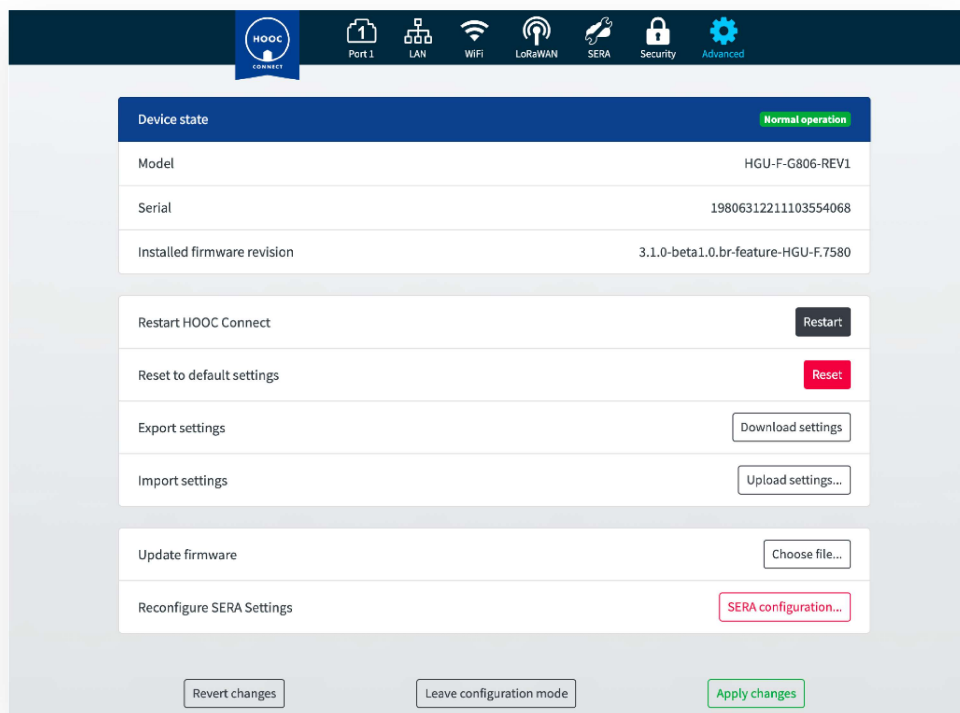
Restart HOOC Connect

The device can be rebooted by clicking on the **Restart** element without interrupting the power supply.

Reset to default settings

Clicking on the **Reset** element resets the device to the factory settings.

Firmware update

HOOC recommends regular updates of the firmware. The firmware can be downloaded from the HOOC Management Portal at the corresponding site under the menu **HOOC Gateway -> Configuration**.

> **❶ Warning**
>
> Follow the instructions in the configuration tool and **make sure that the power is not interrupted during the upgrade process!**