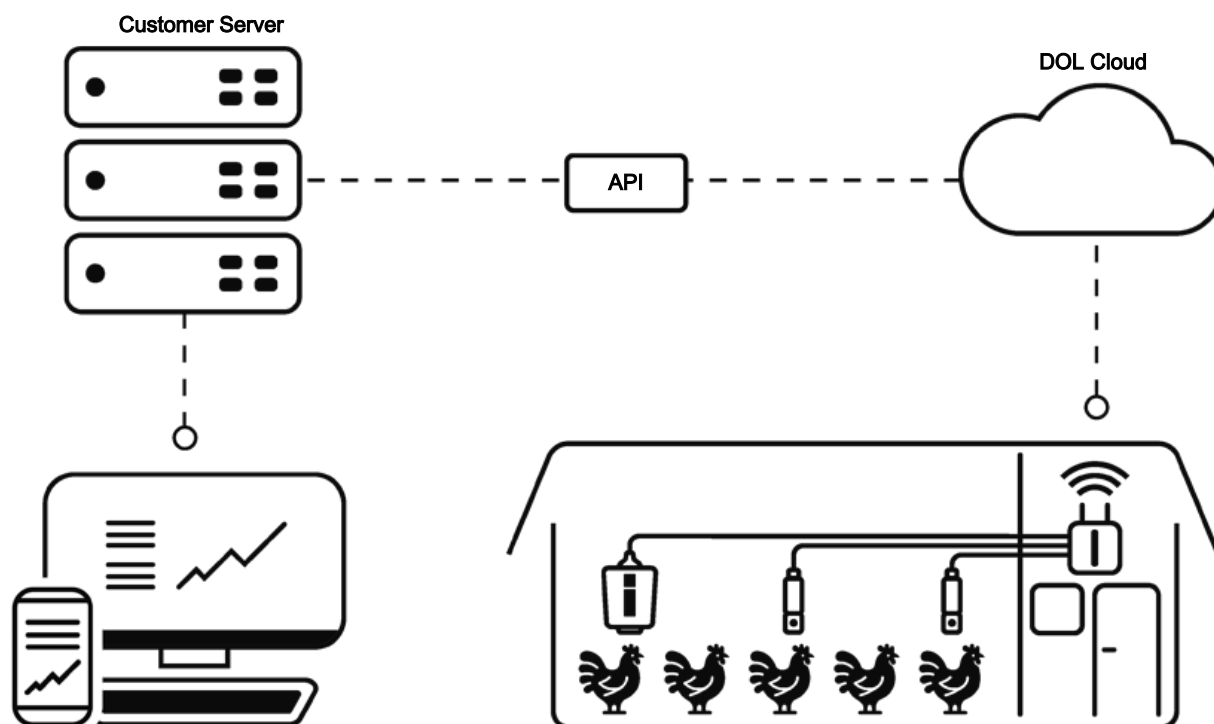


# iDOL 64 LoRa Gateway Service WebUI



## 1 Product description

idol 64 gateway service WebUI is a web page that can help installers set up or troubleshoot installation. It allows you to connect directly to the gateway from a PC and view sensor/modem signal strength and measurement values from the connected sensors.



## 2 User guide

To access the WebUI page, follow these steps:

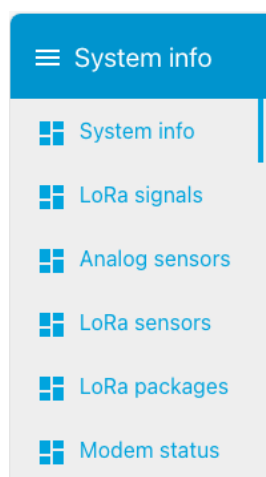
1. Connect the ethernet cable between the LAN port on the Gateway and the PC.
2. Turn on the Gateway.
3. Wait approximately 1 minute.
4. Open a web browser on the PC and type in the address bar:  
idolgw.local:1880 or 192.168.0.1:1880.

The Gateway assigns IP address (DHCP) and shares Internet with all devices connected via ethernet, such as PC.



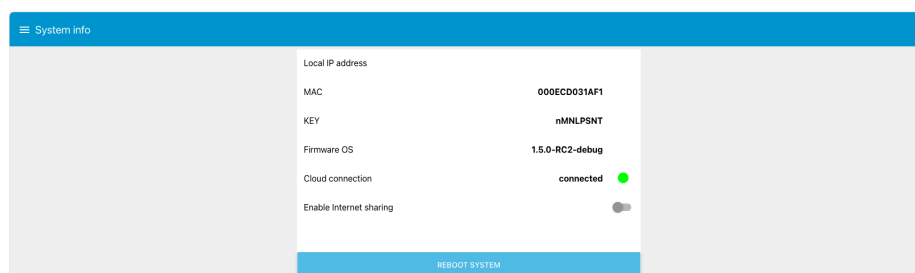
The data active on idol 64 is intended for sensor data only and is therefore limited.

If the data limit is exceeded the sim card will automatically deactivate, and no more data will be send. In this case, contact dol sensors.



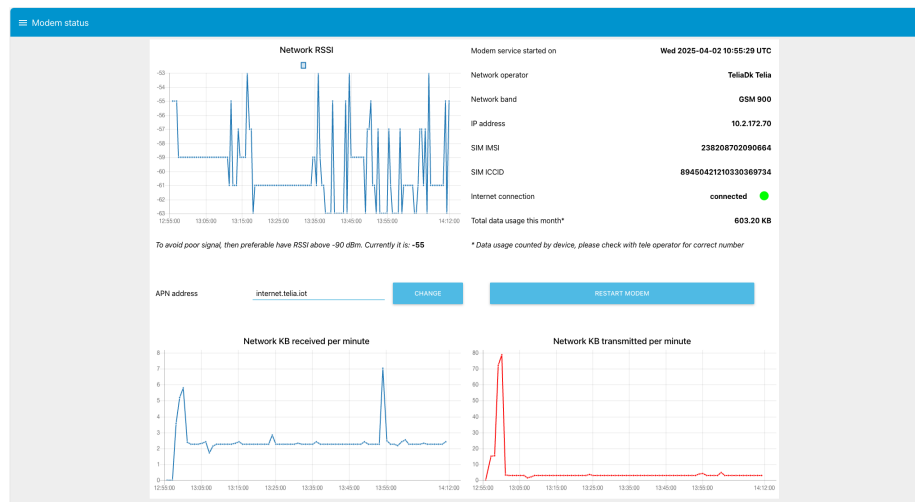
The WebUI page displays dashboards that provide access to various status views.

## 2.1 System Info



Displays information about the system. Internet sharing is disabled by default. If enabled, it remains on until manually disabled again. There is also the option to restart the system.

## 2.2 Modem signals



View...

- RSSI (Received Signal Strength Indicator)
- Operator name
- Modem IP address
- SIM card ID

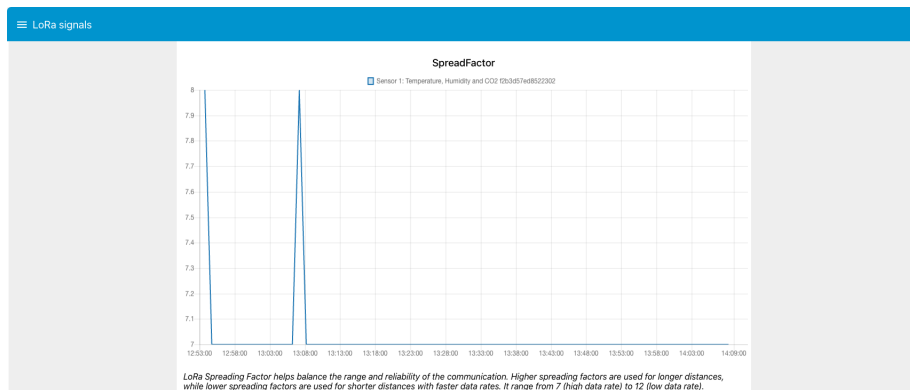
RSSI is a measure of the strength of the received radio signal.

A higher RSSI value indicates a stronger signal.

Modem RSSI should minimum be -99 dB, otherwise we recommended moving the gateway higher from the ground or to a location with better mobile phone service.

## 2.3 LoRa signals

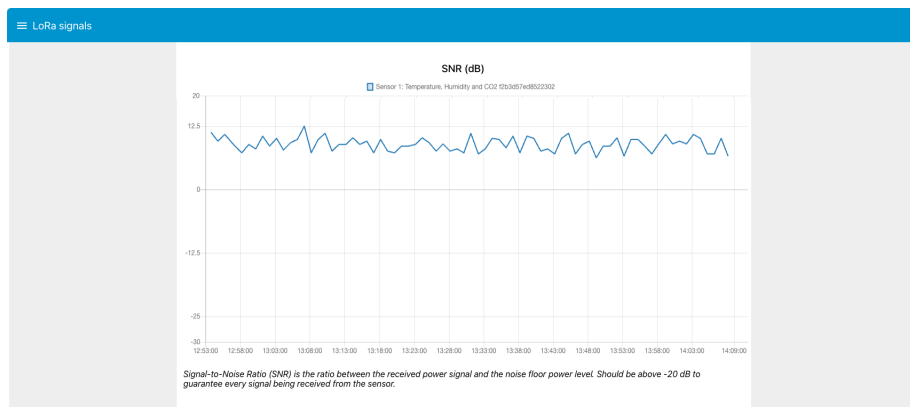
Displays the signal strength of the connection to the sensors.



### LoRa Spreading Factor (SF)

It is the frequency shift rate in a signal. A higher SF gives a slower data rate but a clearer signal. A lower SF gives a faster data rate, but with a higher risk of packet loss.

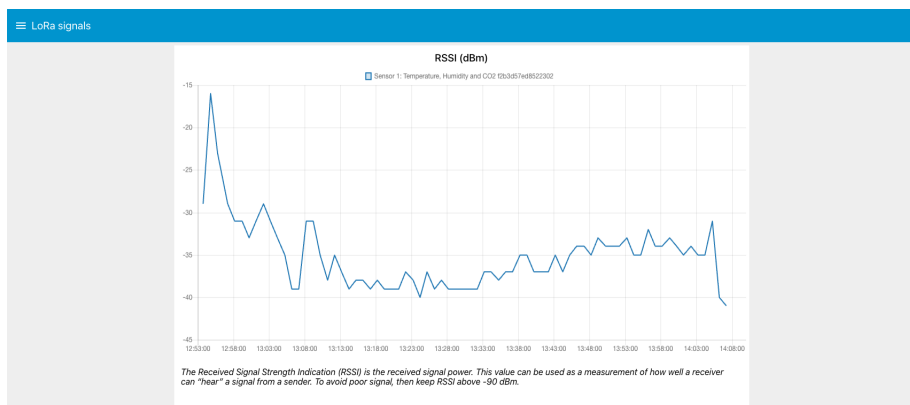
SF ranges from 7 (lowest) to 12 (highest).



### SNR (signal-to-noise ratio)

Is a measure that compares the level of a desired signal with the level of background noise.

A high SNR indicates a clearer signal.



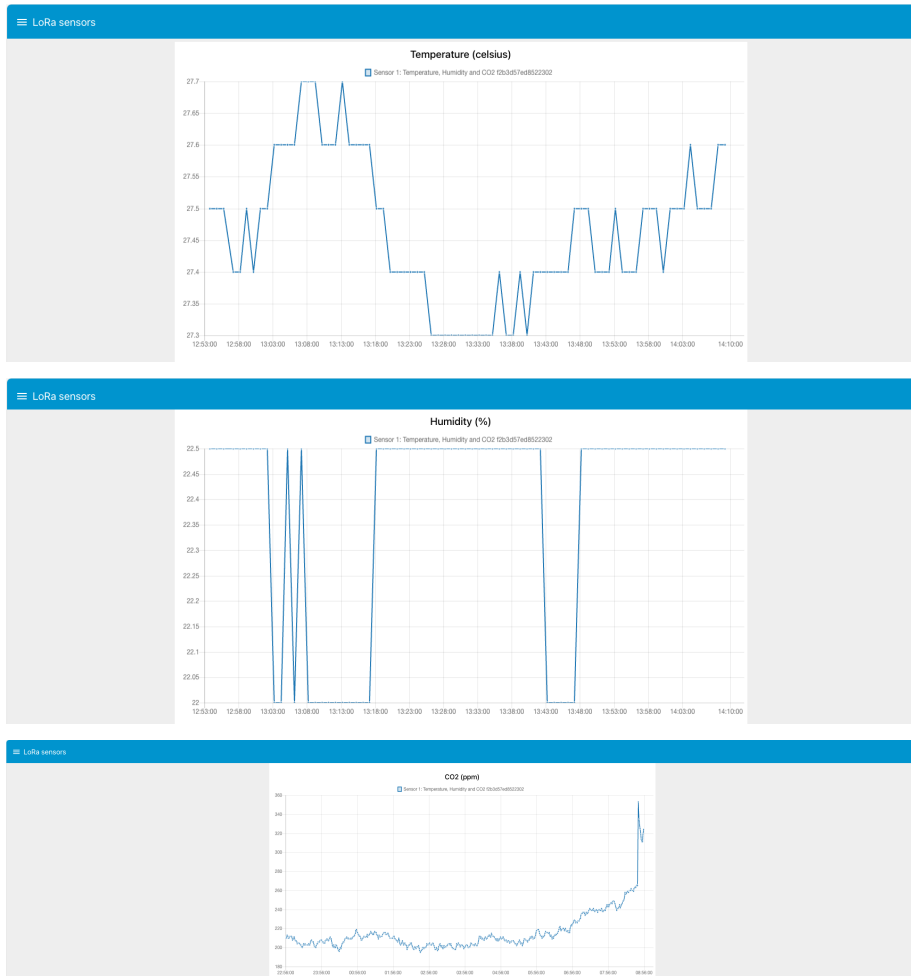
### RSSI (Received Signal Strength Indicator)

Is a measure of the strength of the received radio signal.

If spreading factor is 12, then you might want to get the sensor and gateway closer.

## 2.4 LoRa sensors

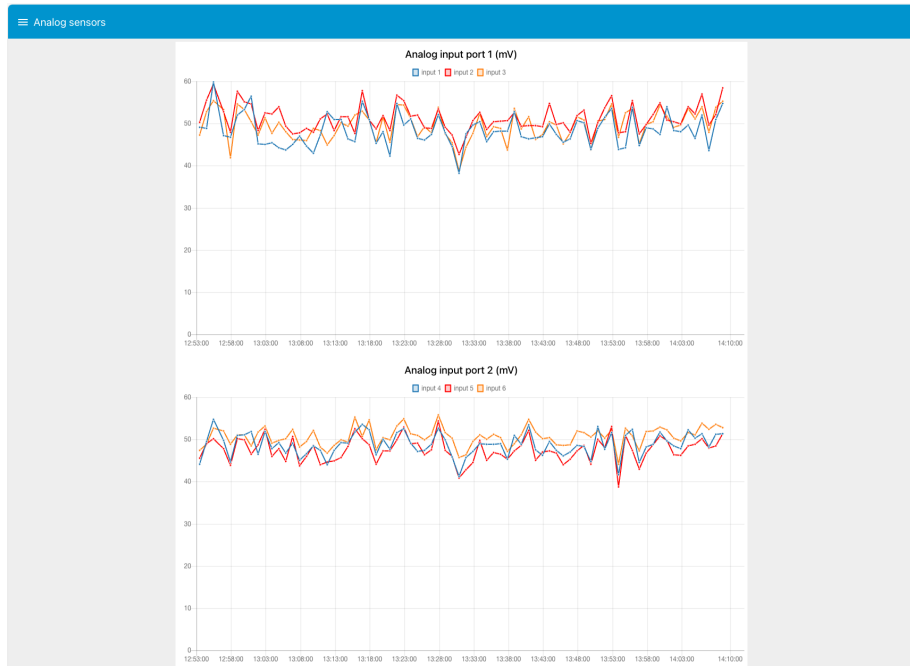
Examples below are from idol 139.



Displays the measured values for:

- Temperature
- Humidity
- CO2
- Ammonia
- Water level

## 2.5 Analog sensors



Displays analog sensor inputs.

Values are displayed in mV (millivolts).

Refer to the sensor data sheet to see how the measured values correspond to the measured values.

## 2.6 LoRa packages

IoTa packages			
Data packages			
Published	DevEUI	Name	Data (RX)
2025-04-02T11:42:12.625568420Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210164
2025-04-02T11:43:18.625331152Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210165
2025-04-02T11:44:18.654049180Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210153
2025-04-02T11:45:12.7070167039Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210145
2025-04-02T11:46:16.894052362Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210146
2025-04-02T11:47:12.741890434Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210144
2025-04-02T11:48:12.758258905Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210144
2025-04-02T11:49:17.764770595Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210148
2025-04-02T11:50:12.7809009251Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210148
2025-04-02T11:51:12.8500484117Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210154
2025-04-02T11:52:12.8600484117Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210154
2025-04-02T11:53:12.891696994Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210100
2025-04-02T11:54:12.911091106Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210166
2025-04-02T11:55:12.9300400910Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e210166
2025-04-02T11:56:12.931717084Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701712682e21016f
2025-04-02T11:57:12.971952107Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210166
2025-04-02T11:58:12.981703936Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210166
2025-04-02T11:59:10.3310303530Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210164
2025-04-02T12:00:12.3310303530Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210164
2025-04-02T12:01:13.086521390Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210166
2025-04-02T12:02:13.109123484Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210165
2025-04-02T12:03:13.109123484Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210164
2025-04-02T12:04:13.182174028Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701714682e210166
2025-04-02T12:05:13.178406059Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210167
2025-04-02T12:06:13.179321840Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210169
2025-04-02T12:07:01.181291194Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701713682e210167
2025-04-02T12:08:13.227693163Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701714682e210169
2025-04-02T12:09:16.264183789Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701714682e210166
2025-04-02T12:10:13.309741834Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701714682e21016d
2025-04-02T12:11:30.394432520Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	6701714682e21016f
Join packages			
Published	DevEUI	Name	Event
2025-04-02T12:02:13.09123484Z	7b3c5b7e8d23202	Sensor 1: Temperature, Humidity and CO2	joined at 2025-04-02T12:02:13.09123484Z

Displays the data packets received by the Gateway.

