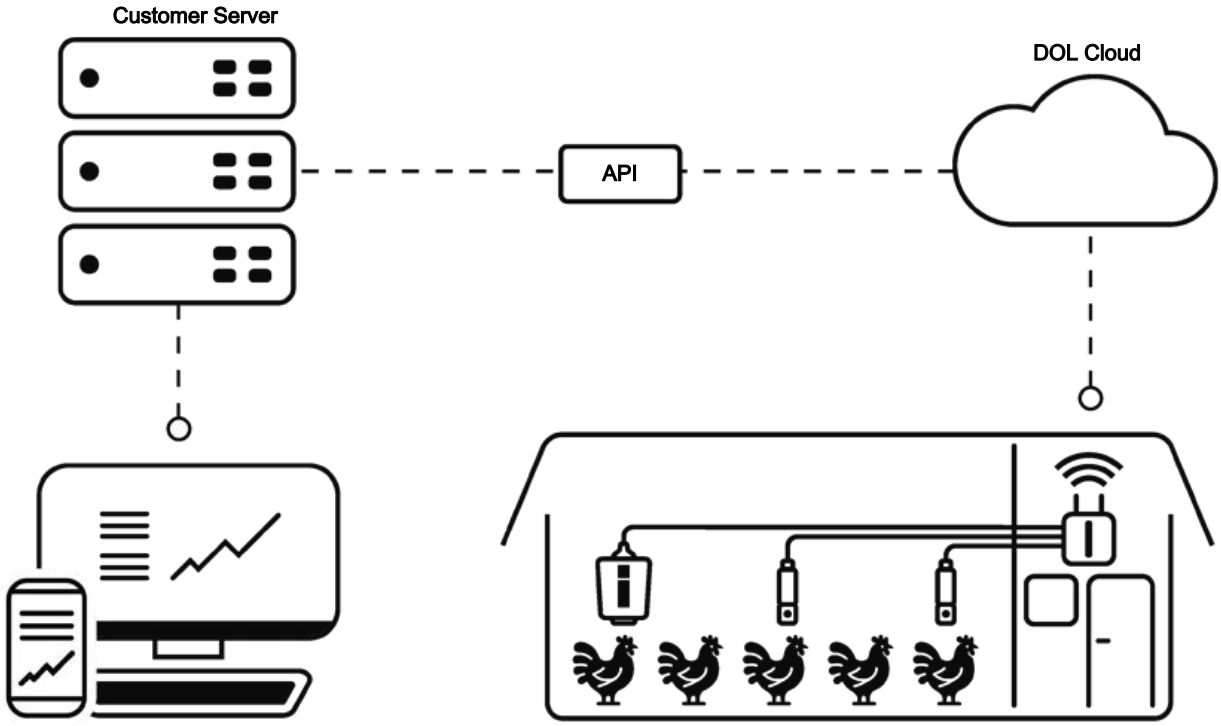
iDOL 64 LoRa Gateway Service WebUI

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

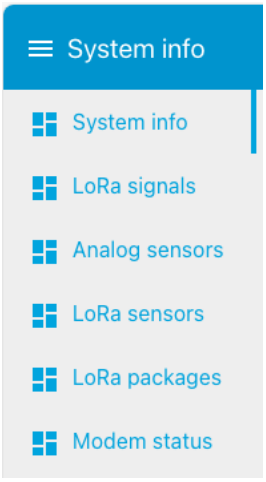
To access the WebUI page, follow these steps:

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

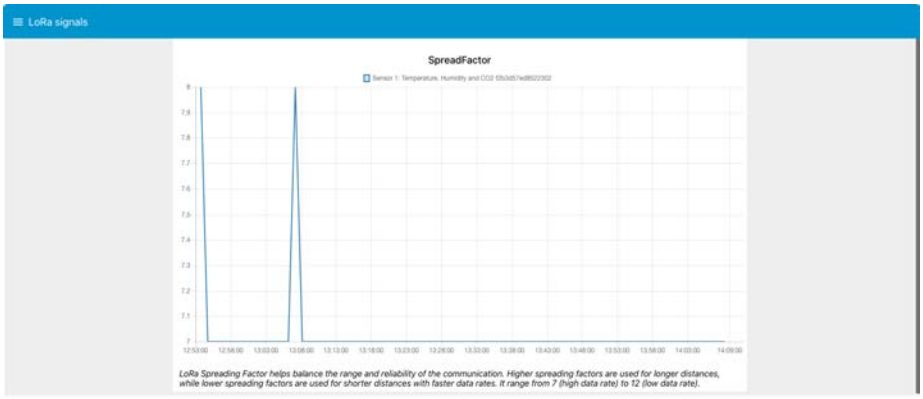
RSSI is a measure of the strength of the received radio signal.

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

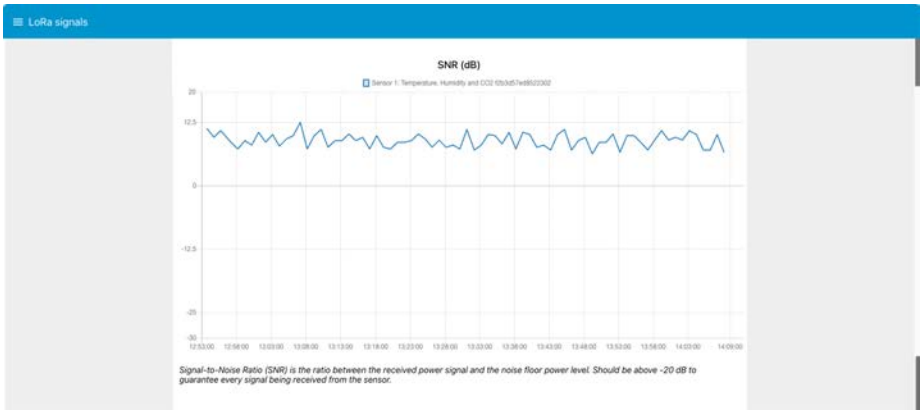
Displays the signal strength of the connection to the sensors.



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.

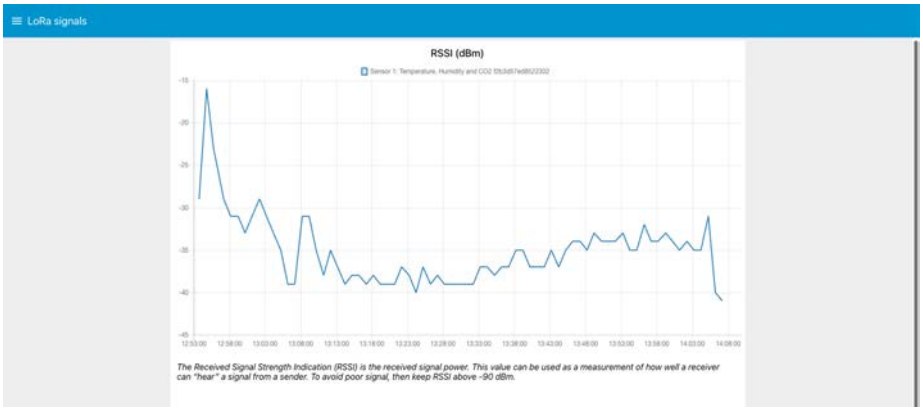
SF ranges from 7 (lowest) to 12 (highest).



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.



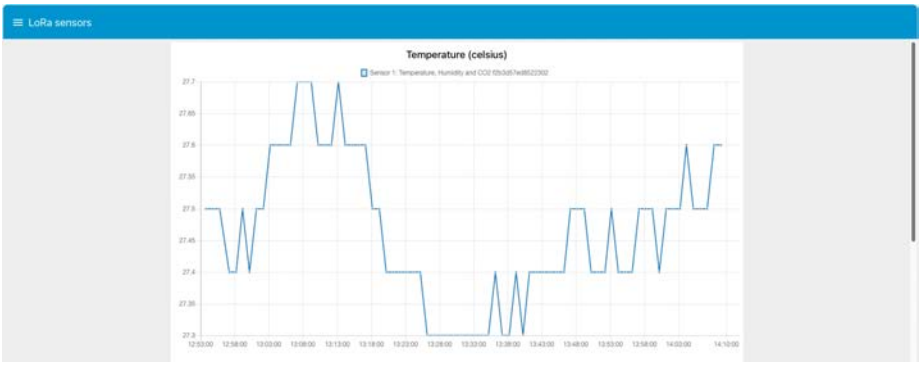
RSSI (Received Signal Strength Indicator)

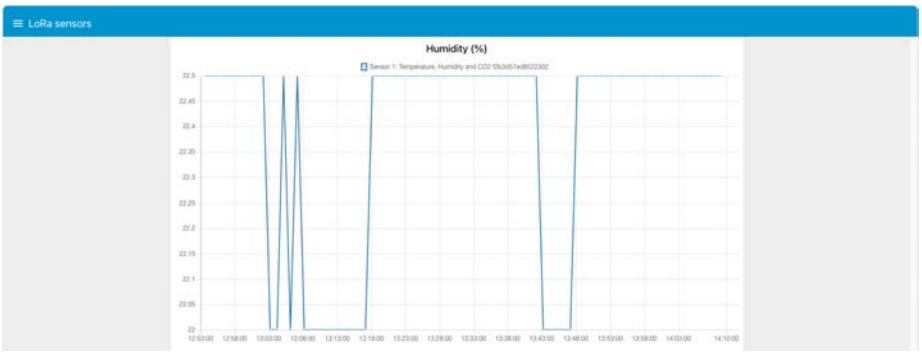
Is a measure of the strength of the received radio signal.

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

Displays the data packets received by the Gateway.

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