



iCone

Configuration Guide

11 juni 2021

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Revisor

Revisie nr.	Datum	Beschrijving
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Change hardware configuration

It is possible to change the iCone hardware configuration in the device system configuration application.

This application is a website running on the device itself.

There are several ways to access the device system configuration.

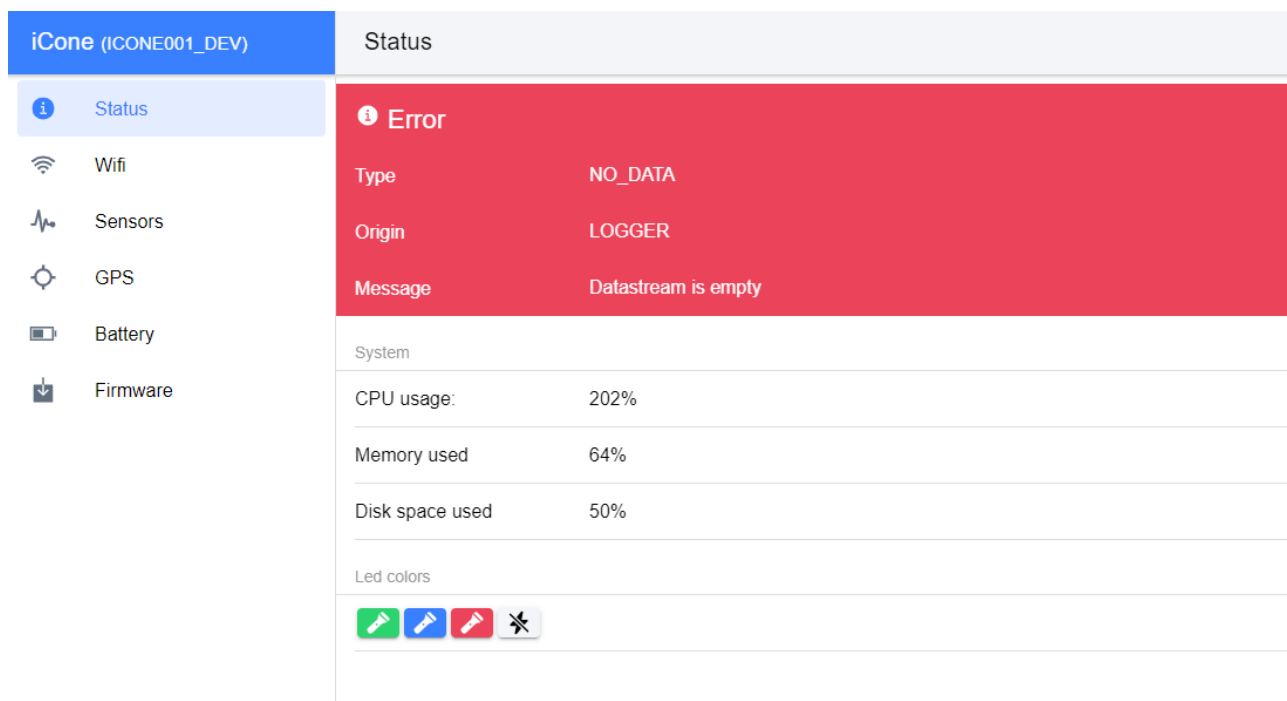
- Connect a device (pc, laptop, ...) to the iCone by Wi-Fi & open a browser and surf to <http://192.168.100.1>
- Go to the device info page on the tablet app and click the config button  in the top right corner.


After changing a configuration, restart the device with the web application to make sure the settings are saved correctly.

Disclaimer: These settings are for qualified personnel only!!

Status

Here you can see the status of the iCone. System info and errors will be displayed here. It is also possible to test the LED's.



iCone (ICONE001_DEV) Status	
Error	
Type	NO_DATA
Origin	LOGGER
Message	Datastream is empty
System	
CPU usage:	202%
Memory used	64%
Disk space used	50%
Led colors	
	



Wifi

Do not adjust these settings!

If you use incorrect wifi settings, the connection isn't automatically restored to the default connection type.

iCone (ICONE001_DEV)	Wifi
<ul style="list-style-type: none">StatusWifiSensorsGPSBatteryFirmware	Select wifi type: Access point <input checked="" type="radio"/> Client <input type="radio"/>
	Wifi settings
	Network Name (SSID): ICONE001_DEV
	<input type="button" value="SAVE"/>

Sensors

At this section it is possible to configure the calibration coefficient and offset of the cone. These parameters are defined in the factory with a calibration device.

iCone (ICONE001_DEV)	Sensors
<ul style="list-style-type: none">StatusWifiSensorsGPSBatteryFirmware	iCone cone
	Model number: SENSOR.CONE.10
	Range: 10
	Calibration Coefficient: 0,05780851357775
	Offset: 8120000
	<input type="button" value="SAVE"/>



GPS

The GPS tab can be used to connect an external GPS to the iCone. The location data will then be linked to a new measurement. Select connection type Serial or UDP and then select on which port it should connect.

If Serial is selected, the baud-rate should also be included in the settings. Save and reboot the iCone for the changes to become active.

Supported sentences:

- **GPGGA:** $\$GPGGA,172814.0,3723.46587704,N,12202.26957864,W,2,6,1.2,18.893,M,-25.669,M,2.0,0031*4F$
- **GPRMC:** $\$GPRMC,081836,A,3751.65,S,14507.36,E,000.0,360.0,130998,011.3,E*62$

iCone (ICONE001_DEV)	GPS
<ul style="list-style-type: none">StatusWifiSensorsGPSBatteryFirmware	Select GPS type: Serial <input checked="" type="radio"/> UDP <input type="radio"/> GPS settings Port: 10200 Baudrate: <Baudrate> <div style="text-align: right;">SAVE</div>

Battery

This panel displays information about the battery.

iCone (ICONE001_DEV)	Battery
<ul style="list-style-type: none">StatusWifiSensorsGPSBatteryFirmware	Capacity: 1.00% Charge: 20.00 mAh Voltage: 0.00 volt Current: -1.20 A Temperature: -273.15 °C



Firmware

Current versions of the firmware are displayed here.

To update the firmware:

- Request the new firmware from the supplier
- Click on "UPLOAD FIRMWARE"
- Select the bin file received from the supplier and acknowledge the update
- Wait until the process is finished. Do not power the iCone off, the iCone could become damaged.
- Click "Reboot".

iCone (ICONE001_DEV)	Firmware
<ul style="list-style-type: none">StatusWifiSensorsGPSBatteryFirmware	<p>Web api</p> <p>Version: v1.0.5</p> <p>Changes: Added GPS service & new webapi layout</p> <p>Logger</p> <p>Version: v1.0.3</p> <p>Changes:</p> <p>Web app</p> <p>Version: v1.0.3</p> <p>Changes:</p> <p>UPLOAD FIRMWARE</p> <p><small>* Only bin-files are allowed</small></p>