

# Public 24.2 - v2.2.0

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#### New Product Features

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## New Product Features [↗](#)

### Network Tab [↗](#)

#### **Improved network interface overview** [↗](#)

All available network interfaces and their corresponding IP-address are shown in a clear overview on the network tab.

#### **Access device by using hostname (mDNS)** [↗](#)

The web-interface of the IC4C•GO could be accessed by typing the IP-address of the device into the address bar of your browser.

When connecting your device to the access point of the IC4C•GO the IP address will always be 192.168.1.1.

If the IC4C•GO is connected as client to an existing Wi-Fi network or with Ethernet the IP address will be assigned by the network. This address will not be fixed and might change over time.

To make it easier to access the web-interface you can now type the serial number of the device in the address bar of your browser. <http://ic4c-97386417.local>

#### **Static IP address configuration for ethernet interface** [↗](#)

The ethernet interface can be configured with a static IP address.

#### **Scan for available Wi-Fi networks** [↗](#)

When connecting the IC4C•GO over Wi-Fi you can scan for available networks.

A list of networks ordered by decreasing signal strength will be shown.

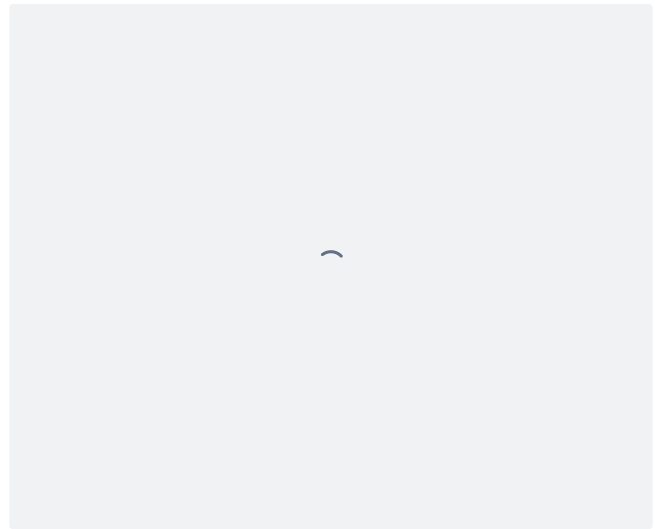
The RSSI value that is shown next to the network name (SSID) can be used as an indication for the signal strength.

When the RSSI value is lower than expected, the antenna connection should be checked.

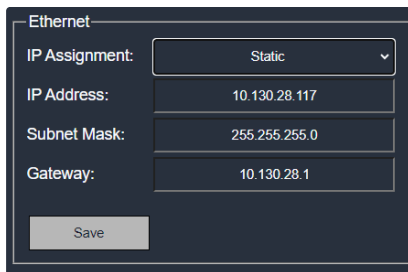
Amazing	Very Good	Okay	Not Good	Unusable
-30 dBm	-67 dBm	-70 dBm	-80 dBm	-90 dBm



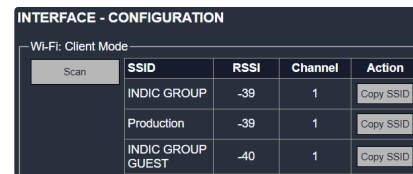
Network Interface Overview



Scan for available Wi-Fi Networks (No Antenna)



Ethernet - Static IP configuration



Network Scan Results (With Antenna)

## CAN Bus performance - Functional Software [↗](#)

### Increased maximum Can Nodes [↗](#)

The can bus performance has been improved,

### Automatic Bus recovery [↗](#)

In previous software versions the CAN Bus recovery could be triggered by power cycling the device.

Starting from this release the device will perform automatic bus recovery.

## Overload Protection - Safety Software [↗](#)

The features described below are implemented in the functional software but currently not active on devices in the field.

Only after certification, the safety software will be put into production.

Upgrading the safety software on device in the field is not possible, this can only be done on the production line.

### Support for Negative load measurement values [↗](#)

In specific situation the load cell can return a negative measurement result.

In the previous software version the negative loads were handled as large positive numbers, which immediately triggered an overload.

This behavior was not always desired.

When the measurement value is negative it's absolute value will be used to perform the overload calculation.

STATUS																						
Loadcell state	Ok																					
Gross load	354 kg																					
Digital output	1	2	3	4	5	6	7	8	9	10	11	Safety										
Value	0	0	0	0	0	0	0	0	0	0	0	1										
Digital inputs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Value	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Negative load with overload configured at 2200 kg

## Support for Negative load measurement offset [↗](#)

With the introduction of negative load measurements a negative load measurement offset was required.

## Unit conversion inside Safety software [↗](#)

Loadcells are transmitting their measured load in kilogram over the CAN Bus connection.

In the previous software version the conversion all parameters were stored in kilogram .

When the user preferred to work with pounds, the values were converted by the functional software.

This conversion could cause decimal numbers that could not be saved in the safety software.

The new safety software is able to store parameters with pounds as unit.

This avoids additional unit conversions, decimal numbers and inaccuracy when performing calculations.

## Increased Gain [↗](#)

The maximum configuration value of the gain parameter has been increased from 20,000 to 80,000.

## Automatic Loadcell Discovery [↗](#)

By default the loadcell CAN id in the safety software is set to 1.

The default CAN id of the connected loadcell can be updated by changing the value and writing it over CAN.

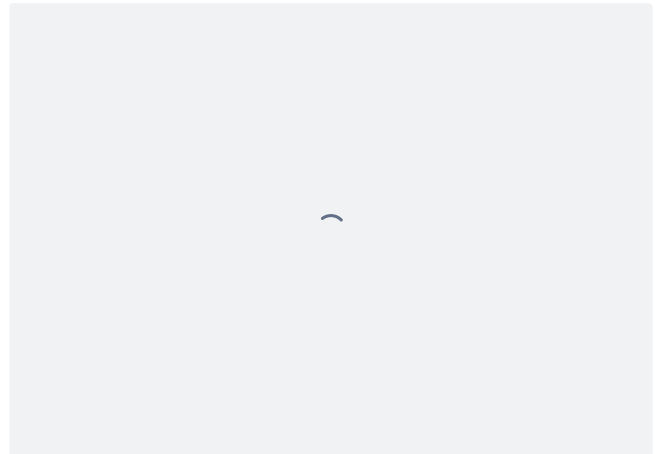
When connecting a loadcell, the IC4C•GO will notify the user when the loadcell CAN ID is different from the CAN ID configured in the safety software.

When no loadcell is connected the user will be notified, with a message to check the CAN wiring and loadcell power supply.

These notifications will disappear automatically after 10 seconds



“No Loadcell connected” notification.



“CAN ID mismatch” notification.