

**OMNICOMM**

# Omnicom ICON Display

User Manual

17.09.2020

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# Omnicommm ICON Display

## General Information

Omnicommm ICON display is intended to display various parameters, including:

- Fuel volume in the fuel tanks
- Refueling volume
- Temperature according to the external temperature sensor readings
- Fuel volume dispensed from the fuel-servicing truck (only in conjunction with the Omnicomm Profi terminal)
- Reading from the Omnicomm terminal universal inputs
- Driver's status
- Driver name / registration
- Vehicle speed
- Current time
- Dispatcher's message
- Engine hours

Omnicommm ICON Display is applicable:

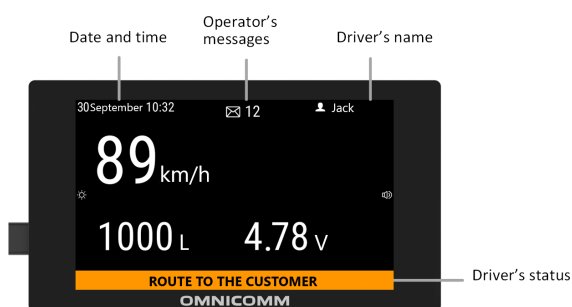
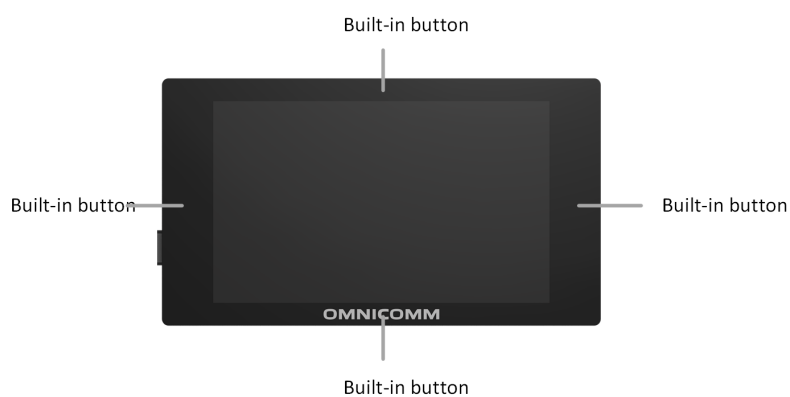
- in fleet monitoring systems, both with GPS/GLONASS terminals connection and separately with fuel level sensors
- with Omnicomm terminals 2.0 and later and with third generation built-in software (302 and later)
- with third-party terminals that support the Omnicomm ICON communication protocol
- only with fuel level sensors using the Omnicomm LLS protocol and provided with the RS-485 interface

## General Information

While carrying out installation, observe the safety rules and regulatory requirements for this type of work.

## Screen controls and navigation

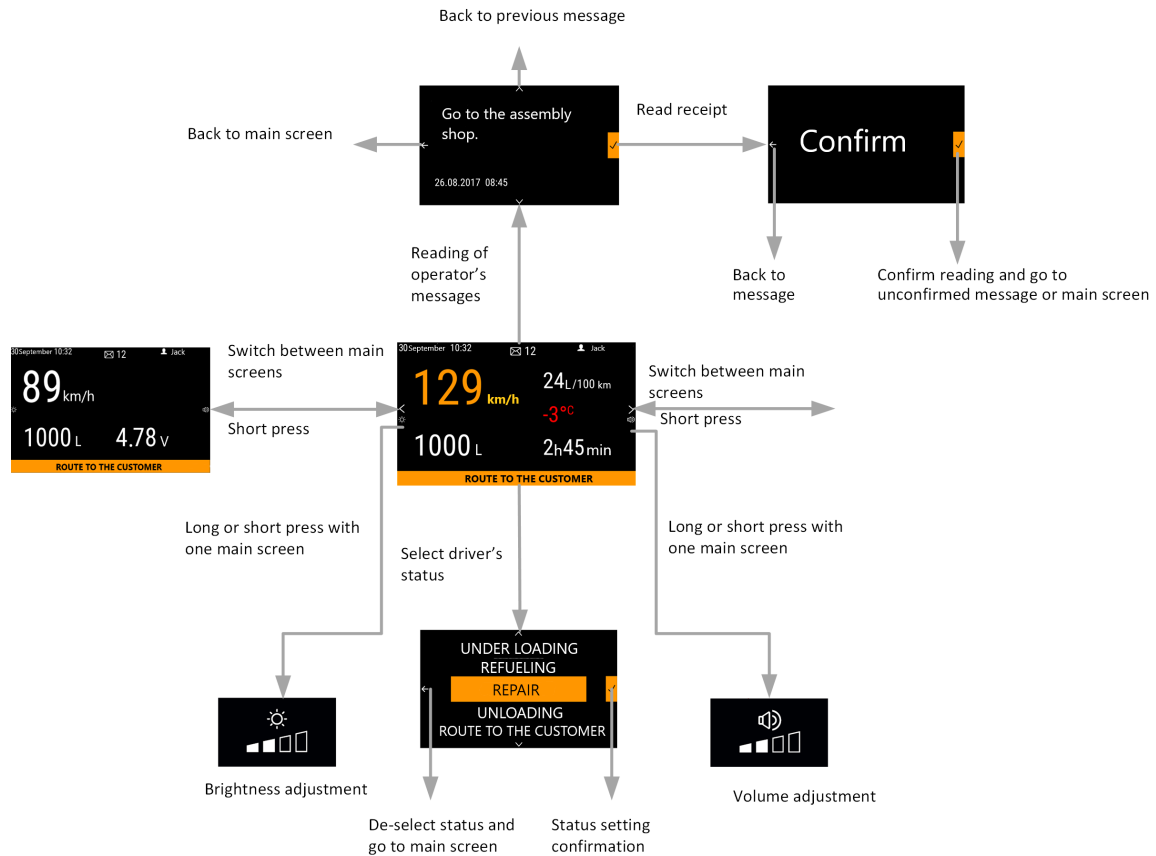
Omnicom ICON display has 5 built-in buttons. To use the button you need, press the display body frame.



## General Information

# Screen chart

Main screen navigation map:



To monitor refueling, a driver's status "Refueling" is implemented (see [Refueling volume monitoring](#)).

# Technical Specifications

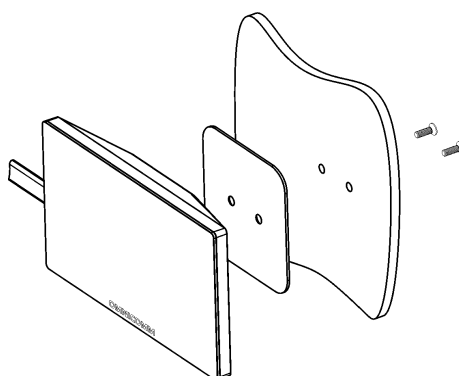
| Parameter                                     | Value                                 |
|-----------------------------------------------|---------------------------------------|
| Power supply voltage, V                       | From +8 to +35                        |
| Power consumption, W                          | nominal 2<br>maximum 15 (when heated) |
| Type of output interface                      | RS-485                                |
| 1-wire interface                              | iButton protocol                      |
| Omnicom LLS sensors number                    | 4                                     |
| Baud rate through the RS-485 interface, bit/s | 19,200 bit/s                          |
| Brightness                                    | 4 levels                              |
| Diagonal, inch                                | 3,97                                  |
| Resolution, dots                              | 480 x 800                             |
| Active zone, mm                               | 51,84 x 86,40                         |
| Sound notification volume                     | 5 levels                              |
| Operating temperature range, °C               | From -30 to +80                       |
| Ingress protection rating                     | IP51                                  |
| Overall dimensions, mm                        | 112,8 x 63,6 x 19,2                   |

## Installation

| Parameter            | Value          |
|----------------------|----------------|
| Weight, kg           | maximum 0.2 kg |
| Average service life | 8 years        |

## Installation

We recommend that you install an Omnicomm ICON display on a magnetic holder or fasten it with a double-sided adhesive tape. The display may also be installed using self-tapping screws:



When identification with RFID card is used, fasten the RFID holder to the display using self-tapping screws. To do this, unscrew the self-tapping screws with a screwdriver PH1 and remove the plate.



Fasten the display with the RFID holder on a magnetic holder or a flat surface using a double-sided adhesive tape.

## Setting

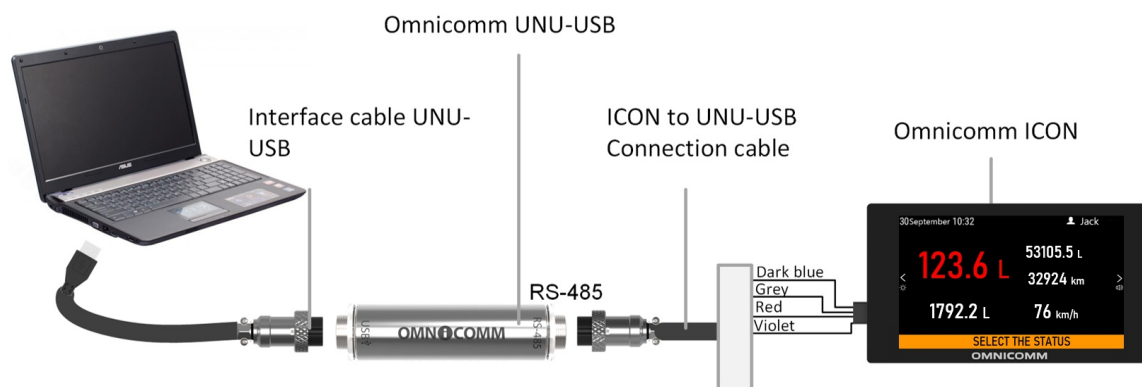


Dismantling the Omnicomm ICON display fastened with a double-sided adhesive tape, use a knife or an equivalent tool and be very careful.

## Setting

Before setting the Omnicomm ICON display, disconnect the Omnicomm LLS fuel level sensors.

Connect the Omnicomm ICON display to a PC using Omnicomm UNU-USB adapter according to the diagram:



Run Omnicomm Configurator:

## Setting

The screenshot shows the 'Setting' menu of the Omnicomm ICON display. The top bar includes the 'ICON' logo, firmware version 'FW: 15075', a 'CALIBRATION TABLES' button, and a 'Service' dropdown. A left sidebar contains icons for 'Sensor', 'Terminal', and 'Indicator', with 'Indicator' being the active selection. The main settings area includes: 'Connection' set to 'Fuel level sensors'; 'Fuel level sensor operation mode' set to 'No automatic output'; 'ICON network address' set to '240'; a 'Used tanks' section with two entries (Tank No. 1 and 2, each linked to a fuel level sensor); a 'Display mode' section with a checkbox for 'Respond to threshold exceeding'; and a 'Fuel volume screen' section with a dashed box labeled 'Total in tanks'. A blue 'SAVE' button with a keyboard shortcut is at the bottom.

Select equipment – “Indicator”.

- “Connection” – select the equipment to which the Omnicomm ICON display is connected. Possible options: Fuel Level Sensor, Terminal
- “Fuel level sensor operating mode” – select the data output mode for an LLS fuel level sensor. Possible options: automatic data output, no automatic data output
- “ICON network address” – set the Omnicomm ICON display network address. Default value – 240

The “Used tanks” section is described in the [Calibration](#) subsection.

In the “Display mode” section:

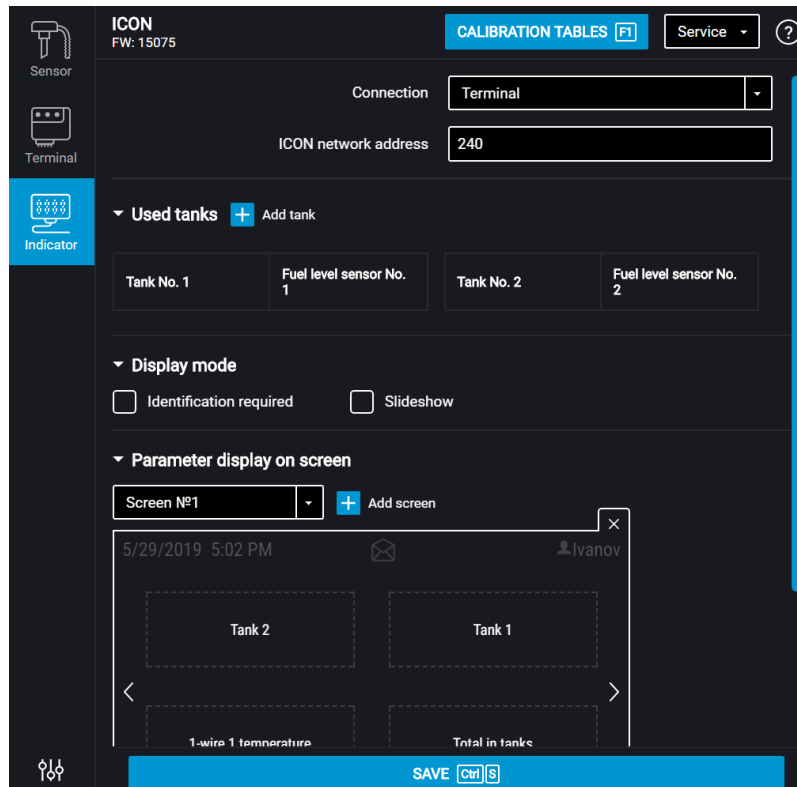
- “Authorization required” – check the box to enable driver identification using the MIFARE Ultralight card. For successful identification the terminal should be configured according to the terminal user manual, the [Omnicomm ICON Display](#) section
- “Respond to threshold exceeding” – check the box to enable sound notification when registering the event set according to the [Parameters display on the screen](#) subsection
- “Slideshow” – check the box to enable automatic switching of the main screens in slideshow mode. Configure the main screens according to the [Parameters display on the screen](#) subsection

## Setting

- Press the “Record into device” button

## Calibration

Omnicom ICON display supports up to 4 fuel tanks. The maximum number of Omnicomm LLS fuel level sensors is 4.



To add calibration tables for fuel level sensors, in the “Used tanks” section press the “Add tank” button.

A window will open, where you select a .ctb file with calibration tables for Omnicomm LLS fuel level sensors.

To view and edit the calibration tables, press the “Calibration tables” button.

Setting

Diagram illustrating the Calibration table interface with annotations:

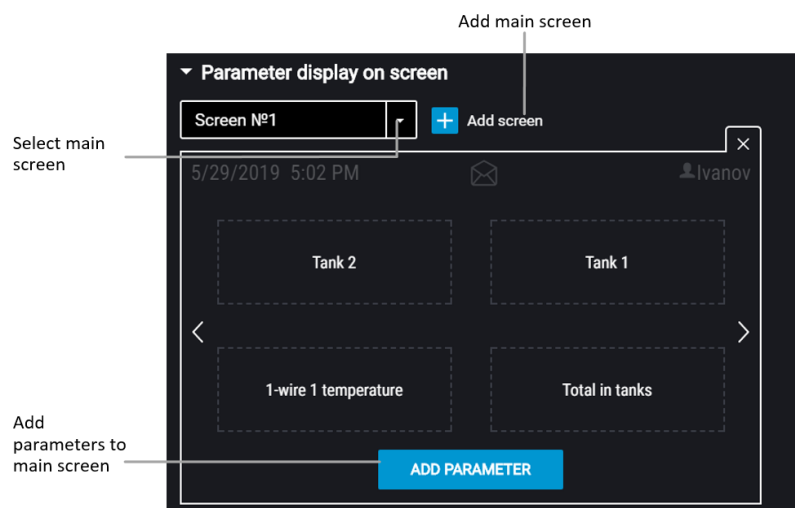
- Clear up table
- Import calibration table
- Export calibration table
- Calibration table schedule
- Add line
- Delete line

| Tank 1 | Liters | Sensor No. 2 |
|--------|--------|--------------|
| Tank 1 | 0      | 0            |
| Tank 2 | 200    | 69           |
|        | 300    | 279          |
|        | 400    | 490          |
|        | 500    | 698          |
|        | 600    | 906          |
|        | 700    | 1114         |
|        | 800    | 1313         |

SAVE [Ctrl] S

# Parameters Display on the Screen

Omnicommm ICON display supports up to 30 main screens with different sets of parameters (only when connected to a terminal). For each main screen you can select up to 5 parameters. To display the parameters, configure the display according to the Omnicomm terminals user manual.

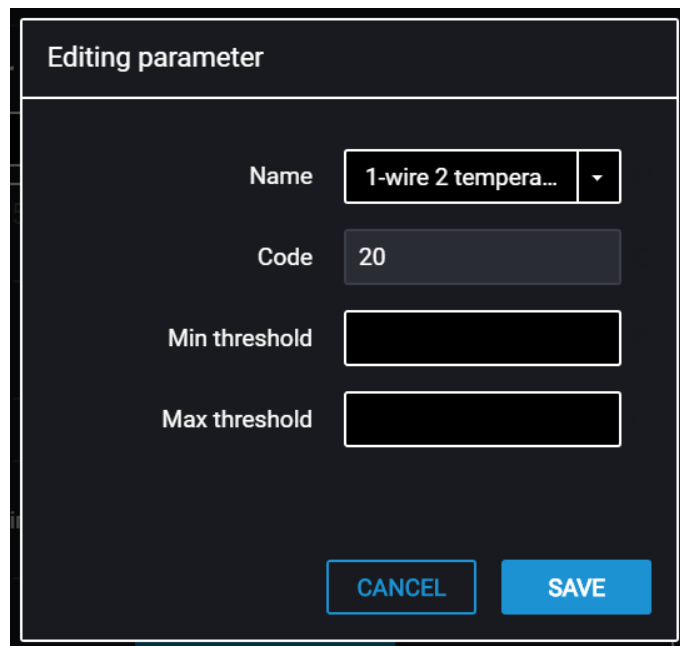


List of parameters:

- Temperature of 1-wire 1..8 – temperature from the sensors connected to the terminal. Values for 8 temperature sensors may be displayed
- UI1..6 – reading from the terminal universal input. Values for 6 universal inputs may be displayed
- Speed – vehicle speed according to the terminal readings
- Number of the tank
- Total fuel volume in the tanks
- USS – fuel volume dispensed through the dispensing gun of the fuel-servicing truck when using the PPO-USS device (only for Omnicomm Profi)
- Engine hours – value of engine hours

Press “Add parameter”.

## Setting

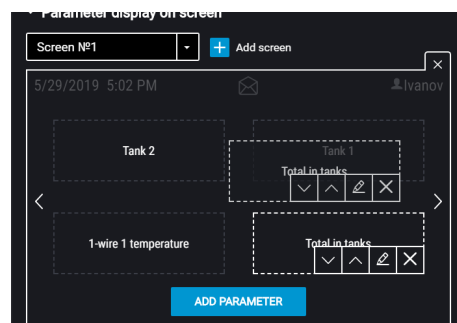


The 'Editing parameter' dialog box is shown with a dark background. It contains four input fields: 'Name' with a dropdown menu showing '1-wire 2 tempera...', 'Code' with the value '20', 'Min threshold', and 'Max threshold'. At the bottom, there are two buttons: 'CANCEL' and 'SAVE'.

For each parameter, specify:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display. Possible values: 1, 2, 3
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification – enable/disable sound notification if thresholds of monitored parameters are exceeded
- SMS sending – enable/disable SMS sending if thresholds of monitored parameters are exceeded

Arrange the parameters by holding down the left mouse button and moving the parameter to the desired location:



The 'Parameter display on screen' interface shows a screen layout for 'Screen №1'. It includes a date and time display (5/29/2019 5:02 PM), a user name (Ivanov), and several parameter displays. The parameters shown are 'Tank 2', '1-wire 1 temperature', and two instances of 'Total in tanks' (one for 'Tank 1' and one for 'Tank 2'). Each parameter display has a set of control buttons (down arrow, up arrow, delete, and close). An 'ADD PARAMETER' button is located at the bottom.

## Setting

---

To add a main screen press "Add screen".

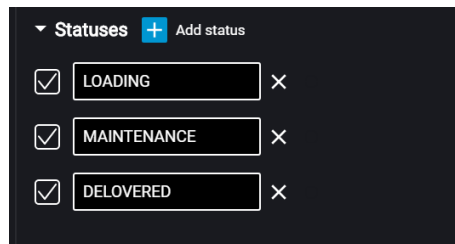
## Setting

If you change the connection type to the "Fuel level sensor", the configured main screens will be deleted.

## Driver's Status

The Omnicomm ICON display supports up to 10 driver's statuses.

In the "States" section:



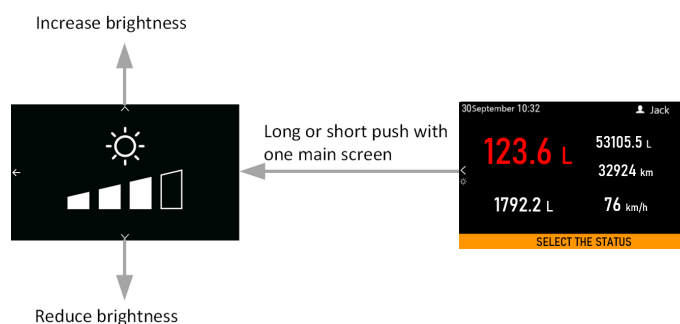
Press "Add status".

Enter the status in words and press the "Record into device" button.

The "Refueling" status is always present in the Omnicomm ICON display and used to monitor the refueling volume.

## Brightness

To adjust brightness when the main screen is displayed, press and hold the corresponding button:

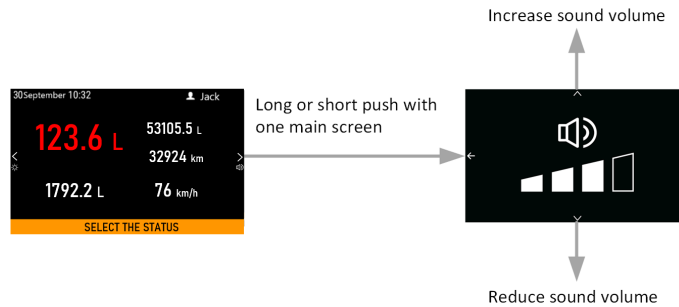


The program finishes the brightness adjustment and switches to the main screen automatically in a few seconds, or you can do it by left-clicking the mouse.

## Connection

### Notification Volume

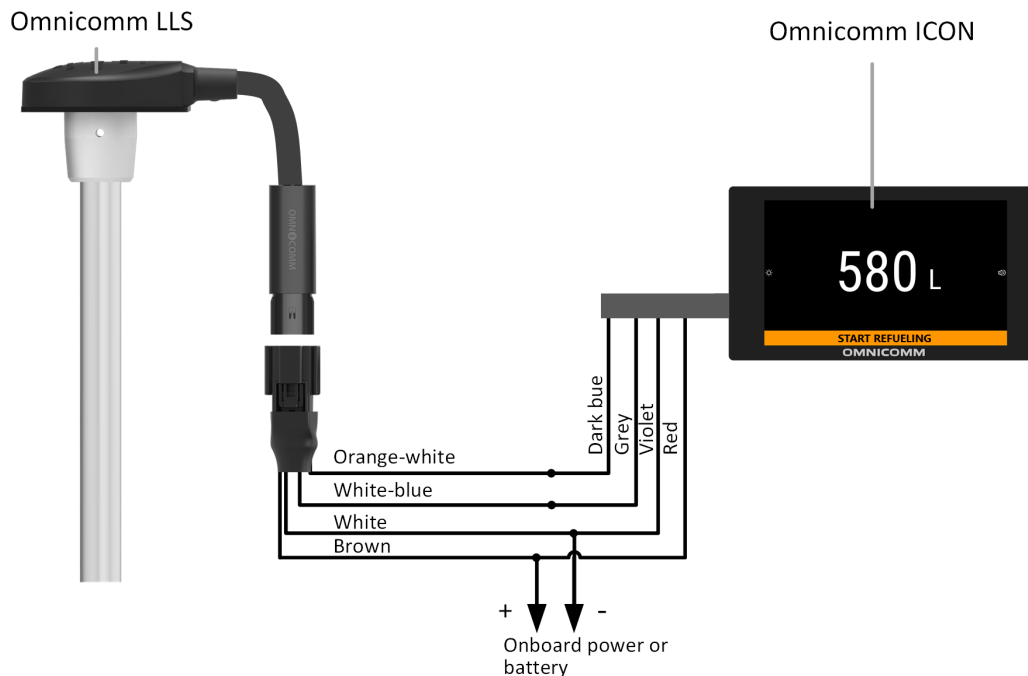
To adjust volume when the main screen is displayed, press and hold the corresponding button:



The program finishes the volume adjustment and switches to the main screen automatically in a few seconds, or you can do it by left-clicking the mouse.

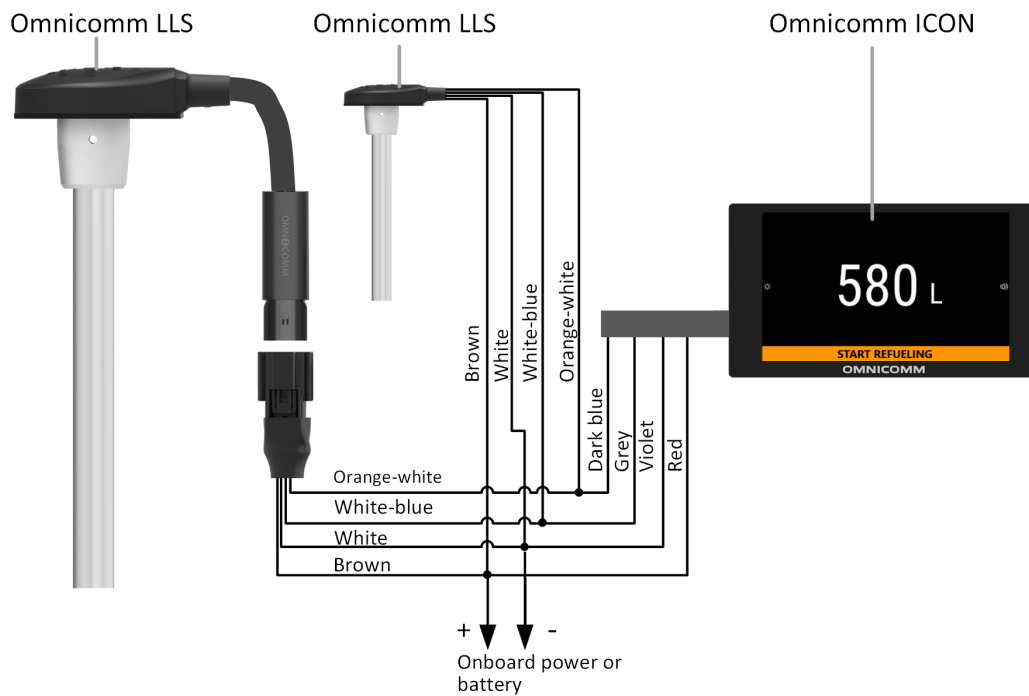
## Connection

Connect an Omnicomm LLS sensor to the Omnicomm ICON display according to the diagram:

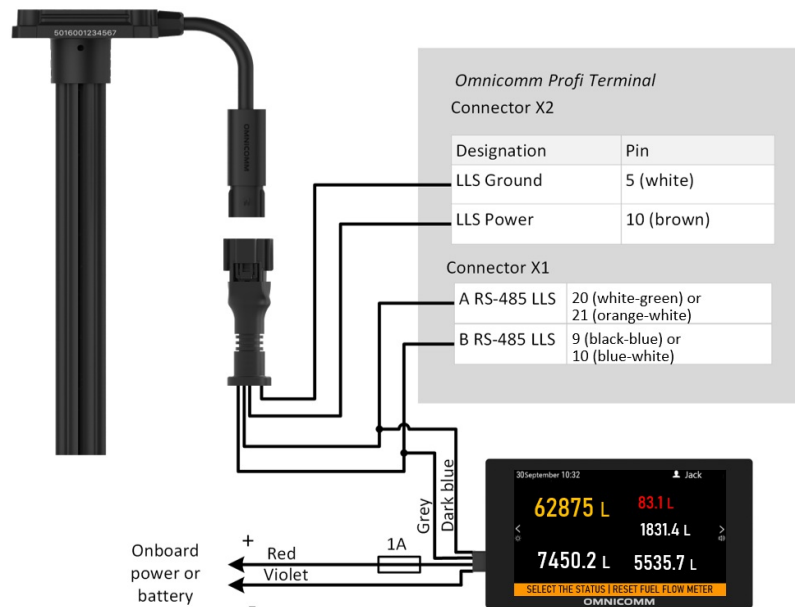


Several Omnicomm LLS sensors shall be connected in parallel via the RS-485 interface according to the diagram:

## Connection

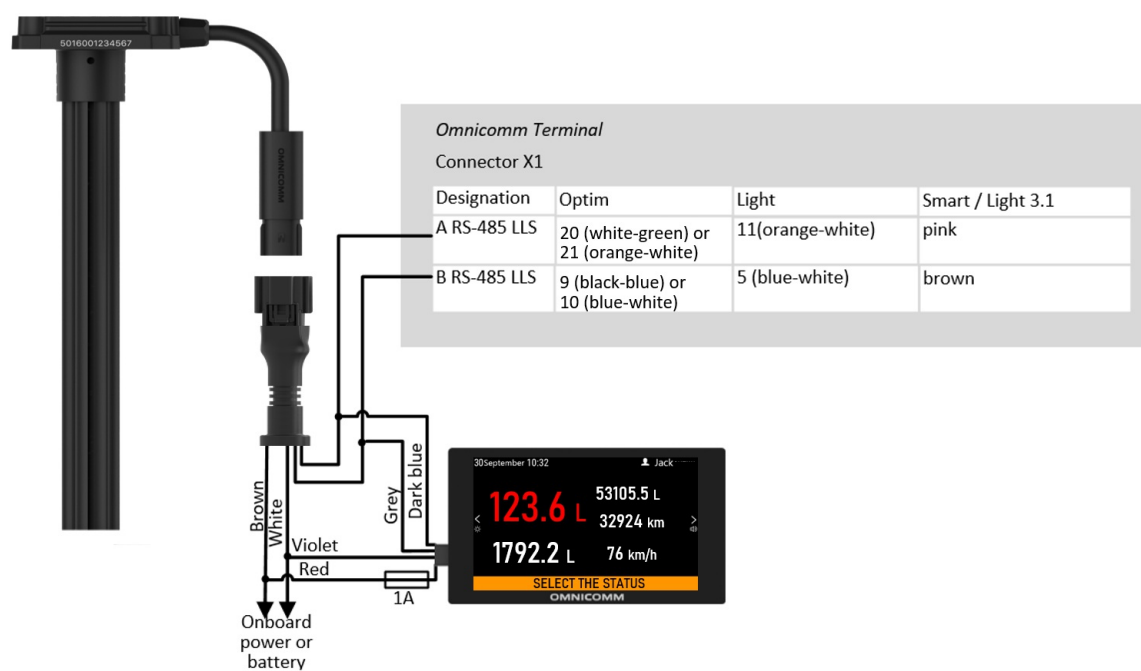


Connect an Omnicomm Profi terminal to the Omnicomm ICON display according to the diagram:



Connect an Omnicomm Optim, Light or Smart terminal to the Omnicomm ICON display according to the diagram:

## Connection



## Connection

Functions and colors of the wires in the Omnicomm ICON display:

| Name of Signal                     | Type of Wire |
|------------------------------------|--------------|
| Vehicle power supply voltage       | Red          |
| Ground (negative) for power supply | Violet       |
| Line A RS-485                      | Blue         |
| Line B RS-485                      | Grey         |
| Panic Button                       | Orange       |
| 1wire / iButton                    | Yellow-green |

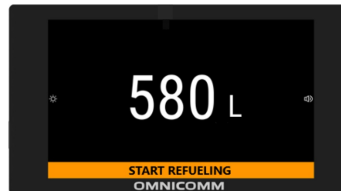
When using Omnicomm ICON to identify a driver, wire 1wire/iButton should not be connected to the terminal.

## Displayed Parameters

# Displayed Parameters

The following parameters are displayed on the Omnicomm ICON display connected to the fuel level sensors:

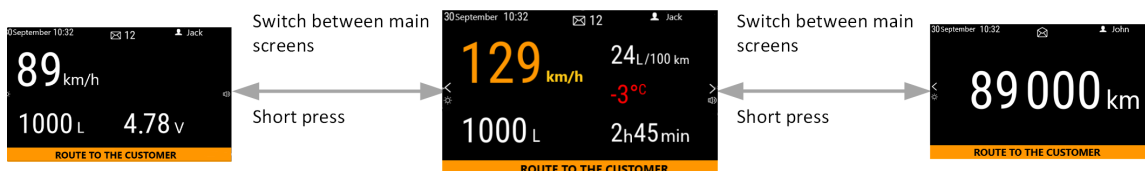
- Total fuel volume in the fuel tanks



The following parameters are displayed on the Omnicomm ICON display connected to a terminal:

- Fuel volume in the fuel tanks
- Total fuel volume in the tanks
- Temperature according to the external temperature sensor readings
- Fuel volume dispensed from the fuel-servicing truck (only when connected to the Omnicomm Profi terminal)
- Reading from the Omnicomm terminal universal input
- Driver's name (upon identification)
- Vehicle speed
- Engine hours
- Current time. Date and time are displayed on the Omnicomm ICON display according to the data received from the terminal

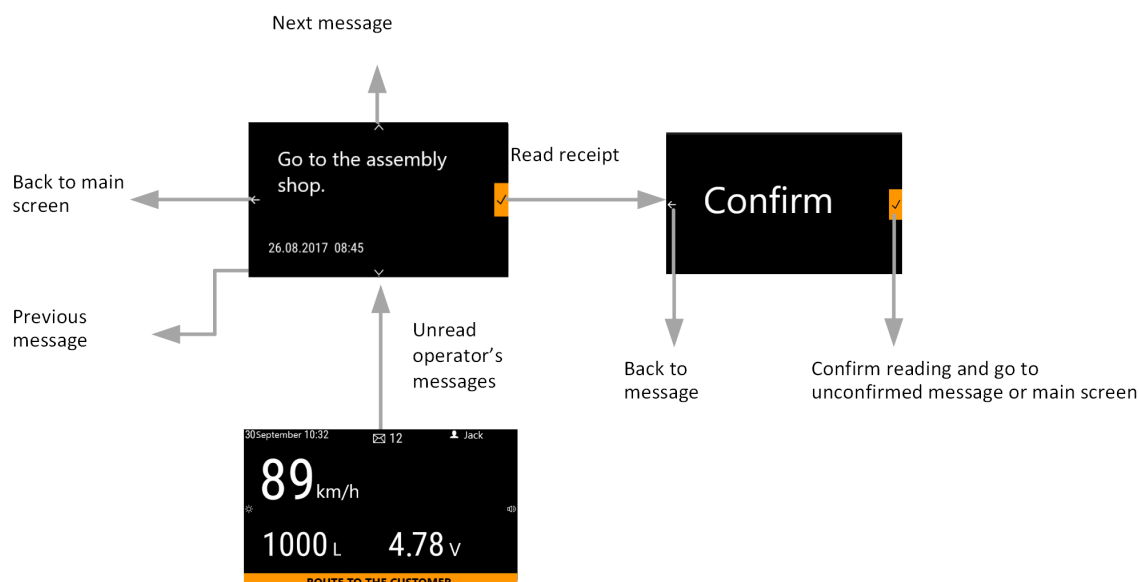
To view the parameters, switch between the previously configured main screens (see [Parameters Display on the Screen](#)).



## Operator's Messages

# Operator's Messages

Omnicommm ICON display shows the dispatcher's messages sent from Omnicomm Online or via SMS.



no unread messages



12 number of unread messages

## Panic Button

BOmnicommm ICON display has built-in panic button.

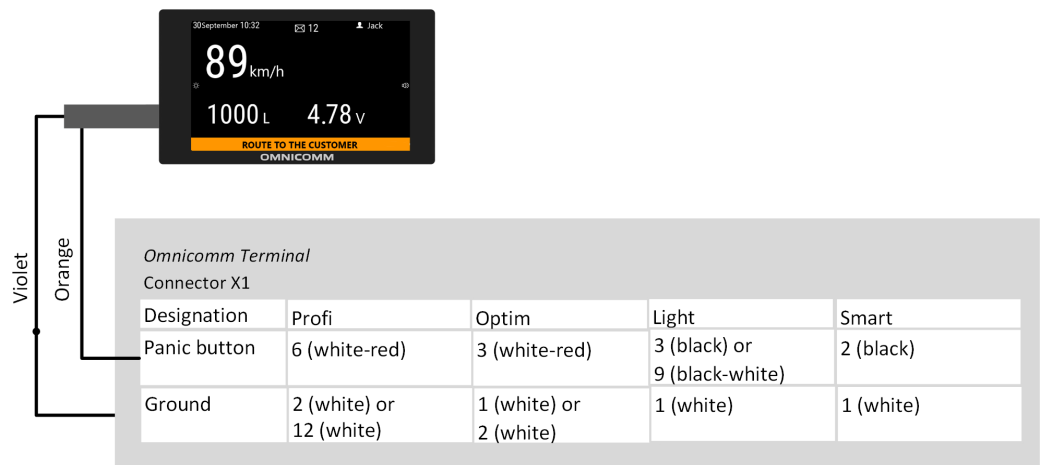


With power ON, if the panic button is pressed the Omnicomm ICON display sends the triggering event via the RS-485 interface.

When connected to a panic button output or a terminal universal input, the Omnicomm ICON display sends the triggering event to the terminal regardless of power ON or OFF.

Connect to a panic button output or an Omnicomm terminal universal input according to the diagram:

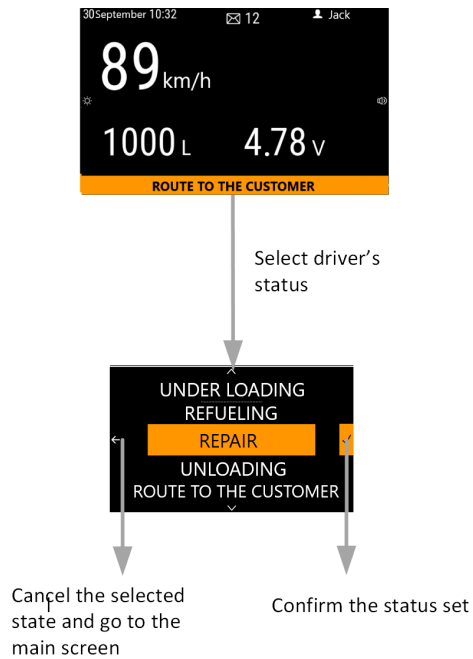
Operator’s Messages



## Driver's Status

# Driver's Status

To notify the dispatcher or monitor the refueling operation, select a status from the set of states created while configuring the Omnicomm ICON display. When the driver's status is changed, it is registered in Omnicomm Online and/or is sent via SMS to a dispatcher.



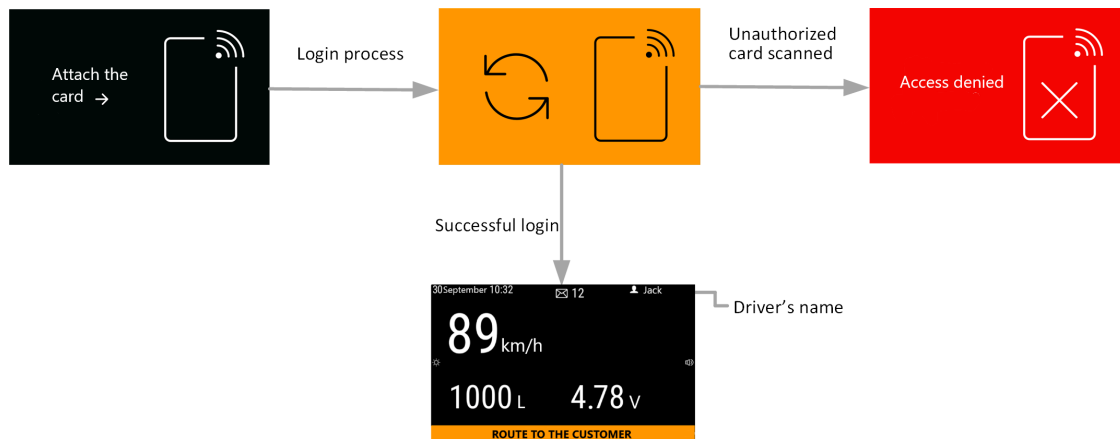
## Driver Identification

# Driver Identification

When the Omnicomm ICON display is connected to a terminal, the driver identification is implemented using a MIFARE Ultralight card. For ease of identification, an RFID card holder is provided.

To provide the driver identification, enable this option in the terminal settings and specify the list of authorized cards.

After the Omnicomm ICON display is turned on, apply an RFID card:

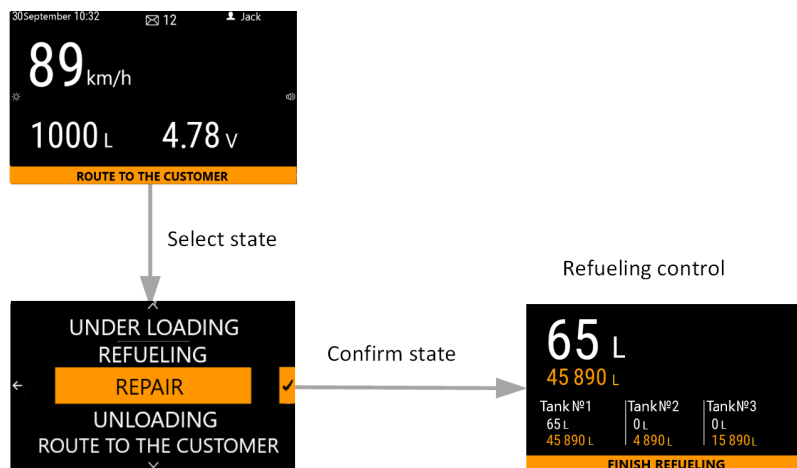


If the RFID card is not listed among the authorized cards, the message "Access denied" will appear.

To provide identification in a continuous readout mode, use an RFID card holder.

# Refueling Volume Monitoring

Before starting the refueling operation, set the driver's status to "Refueling".



During the refueling, the Omnicomm ICON display will show the number of liters for each tank separately and the total number of liters refueled.

To finish monitoring of the refueling operation, select "Finish refueling".

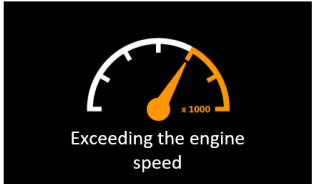
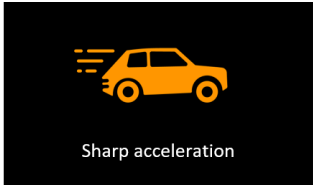
## Sound Notification

# Sound Notification

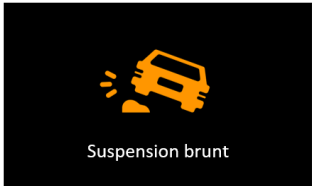
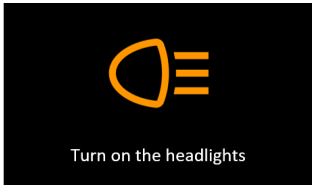
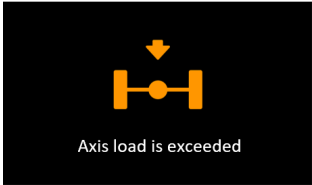
Omnicom ICON display has a built-in speaker.

Sound notification is used when the Omnicomm ICON display is connected to an Omnicomm terminal. Sound notification is triggered upon registration of events set during configuring the displaying parameters on the screen and during the terminal setting.

List of events and their corresponding notifications:

| Event                             | Sound notification | Display                                                                              |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Overspeeding                      | once in 30 sec     |   |
| Exceeding the engine speed        | once in 12 sec     |  |
| Sharp acceleration<br>(>=FW15084) | once in 10 sec     |  |
| Sharp deceleration<br>(>=FW15084) | once in 10 sec     |  |

## Sound Notification

| Event                                            | Sound notification | Display                                                                                                            |
|--------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Sharp lateral acceleration<br>( $\geq$ FW15084)  | once in 10 sec     |  <p>Sharp turn</p>               |
| Sharp vertical acceleration<br>( $\geq$ FW15084) | once in 10 sec     |  <p>Suspension brunt</p>         |
| Fasten seat belts                                | once in 20 sec     |  <p>Fasten seat belts</p>      |
| Turn on the headlights                           | once in 20 sec     |  <p>Turn on the headlights</p> |
| Axis load exceeding                              | once in 60 sec     |  <p>Axis load is exceeded</p>  |

## Sound Notification

| Event                                                              | Sound notification         | Display                                                                              |
|--------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|
| Total axis load exceeding                                          | once in 120 sec            |    |
| Movement inside the geofence (depending on the terminal settings)  | with periodicity of 12 sec |    |
| Movement outside the geofence (depending on the terminal settings) | with periodicity of 12 sec |  |
| Entering the Geofence (depending on the terminal settings)         | occurring once             |  |
| Exiting the Geofence (depending on the terminal settings)          | occurring once             |  |
| Authorization is successful                                        | occurring once             | -                                                                                    |

## Sound Notification

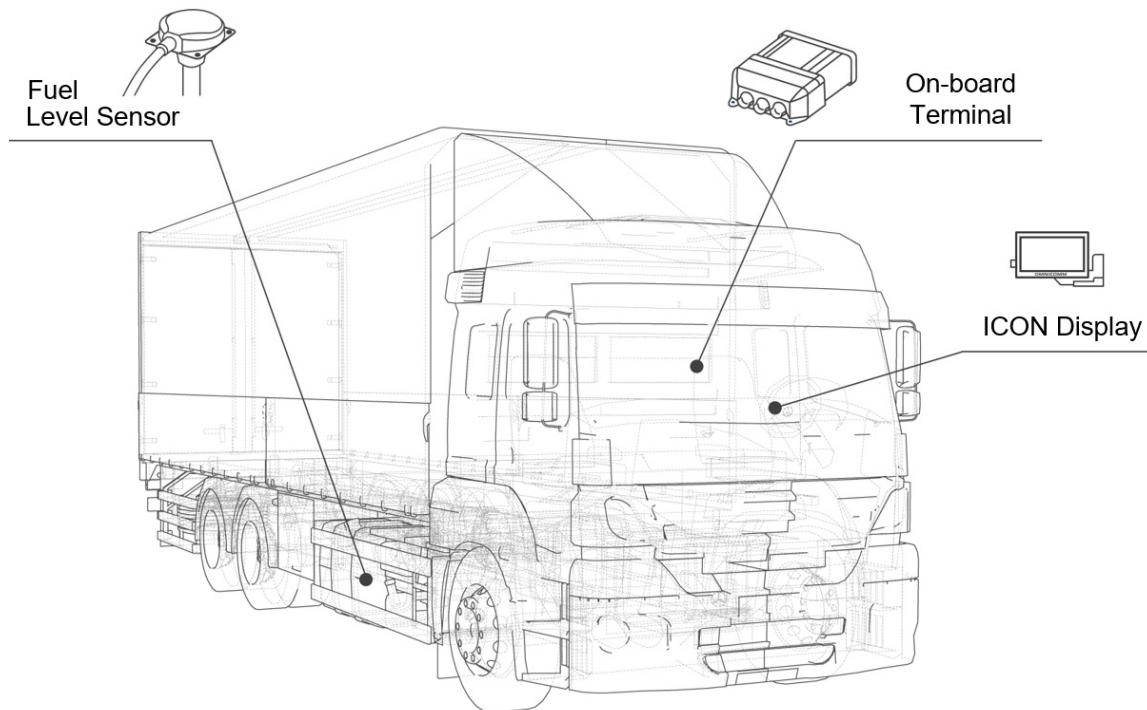
| Event                  | Sound notification | Display                                                                                                                                                                                                                                                                                                               |
|------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Authorization is wrong | occurring once     |  A red rectangular notification icon. On the left, the text "Access denied" is written in white. On the right, there is a white outline of a smartphone with a large 'X' inside it and a Wi-Fi signal icon in the top right corner. |

## Use Cases

# Use Cases

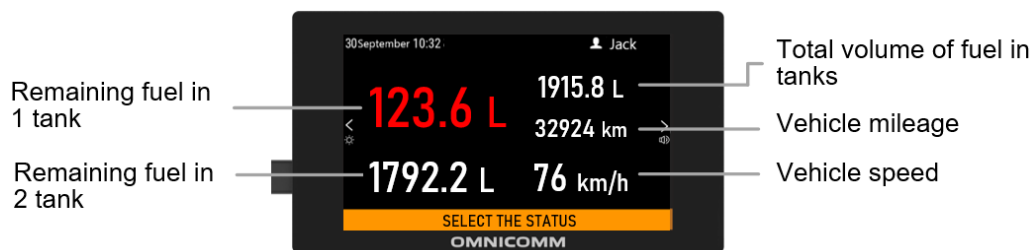
## Monitoring the amount of remaining fuel, the refueling volume, and the vehicle's operation parameters

In this case, we look at the connection and configuration of equipment for monitoring mileage, speed, and remaining fuel in vehicle tanks using the Omnicomm ICON display.



### Use:

#### Monitoring the amount of remaining fuel and the vehicle's operation parameters



If the fuel volume goes below the threshold value, the amount of remaining fuel will be highlighted in red and a sound notification will ring.

#### Refueling volume monitoring

## Use Cases



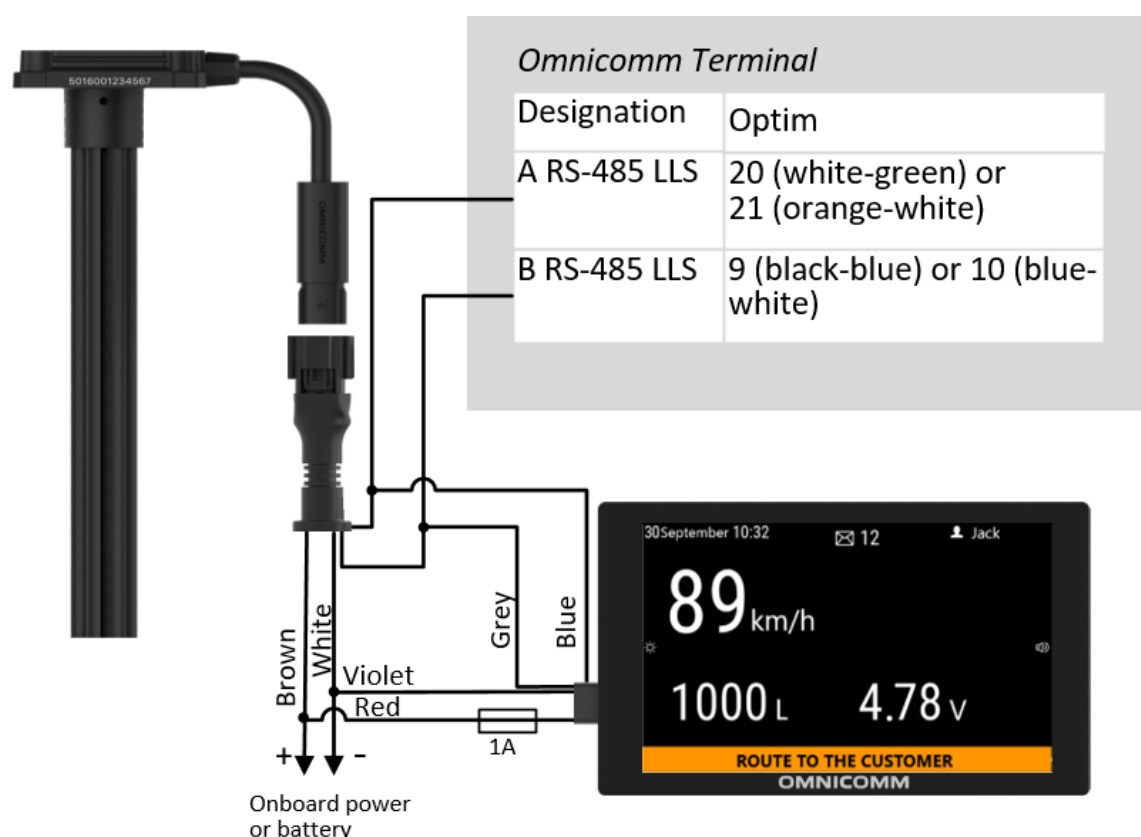
During the refueling process, the Omnicomm ICON display shows the total volume of fuel filled and the number of liters for each tank separately.

### Equipment:

- Omnicomm terminal
- LLS 5 Fuel level sensors
- Omnicomm ICON Display

### Connection:

The diagram example of equipment connection is given for the Omnicomm Optim terminal. To connect to an Omnicomm terminal of a different model, see diagrams in the [Connection](#) section.



### Settings:

## Use Cases

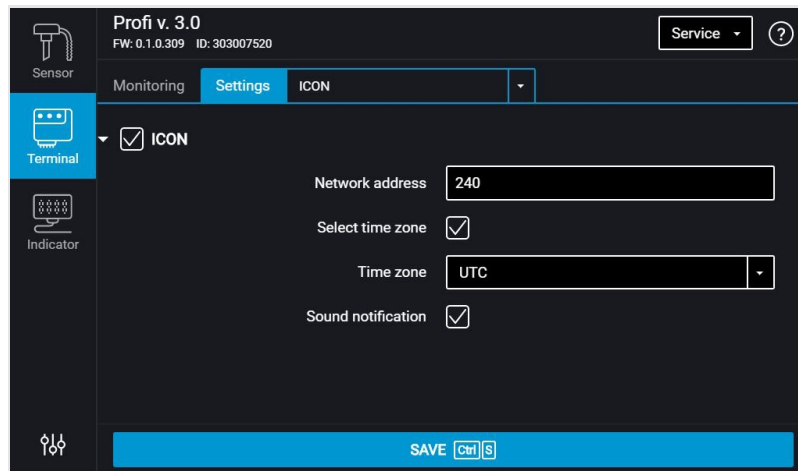
The configuration of the LLS Fuel level sensors is performed according to the user manual of each sensor.

### Omnicom Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



**“ICON”** – check the box to display the data from the terminal on the Omnicomm ICON display

- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

“Time zone” – select the time zone

- “Notify about status changes via SMS” - check the box to send a notification to the dispatcher's number when the driver's status changes. The notification will contain the driver's new status
- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

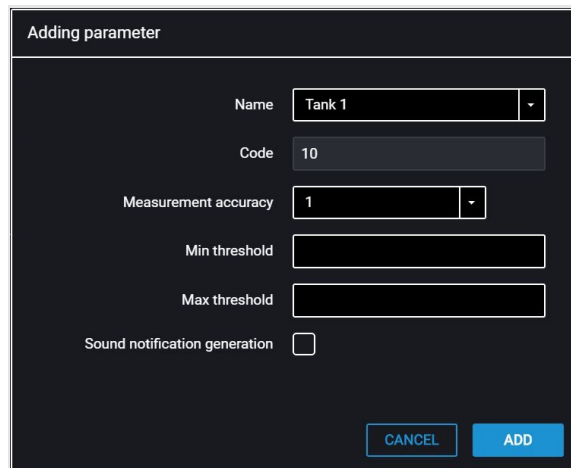
### Omnicom ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters “Tank 1”, “Tank 2”, “Total in tanks”, “Mileage”, and “Speed” to the screen.

## Use Cases



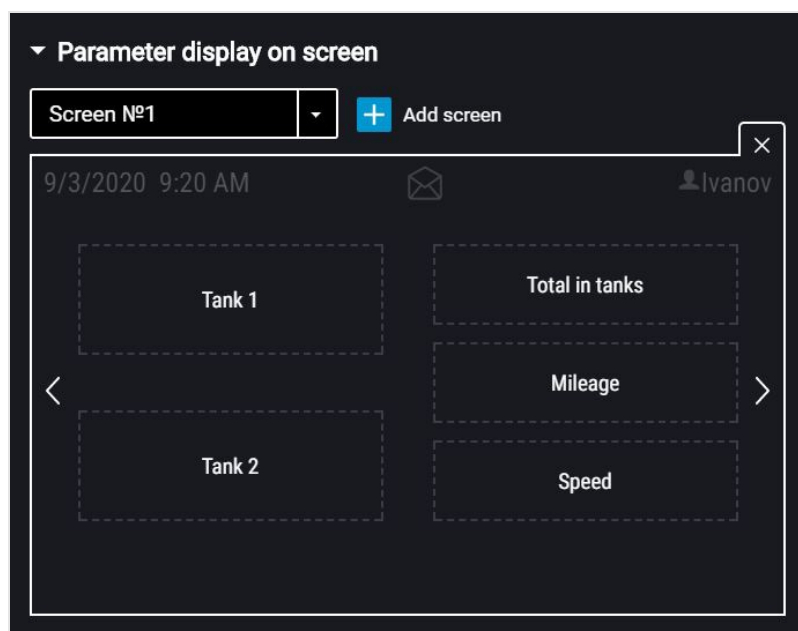
The 'Adding parameter' dialog box contains the following fields and controls:

- Name:** A dropdown menu with 'Tank 1' selected.
- Code:** A text input field containing '10'.
- Measurement accuracy:** A dropdown menu with '1' selected.
- Min threshold:** An empty text input field.
- Max threshold:** An empty text input field.
- Sound notification generation:** An unchecked checkbox.
- Buttons:** 'CANCEL' and 'ADD' buttons at the bottom right.

When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded

Configure the parameter display on screen as shown in the figure:



The 'Parameter display on screen' configuration screen shows the layout for 'Screen №1'. It includes a header with the screen name, a date/time stamp (9/3/2020 9:20 AM), a user icon (Ivanov), and a close button. The main area contains four dashed boxes representing parameter displays: 'Tank 1', 'Total in tanks', 'Tank 2', 'Mileage', and 'Speed'. Navigation arrows are visible on the left and right sides of the main area.

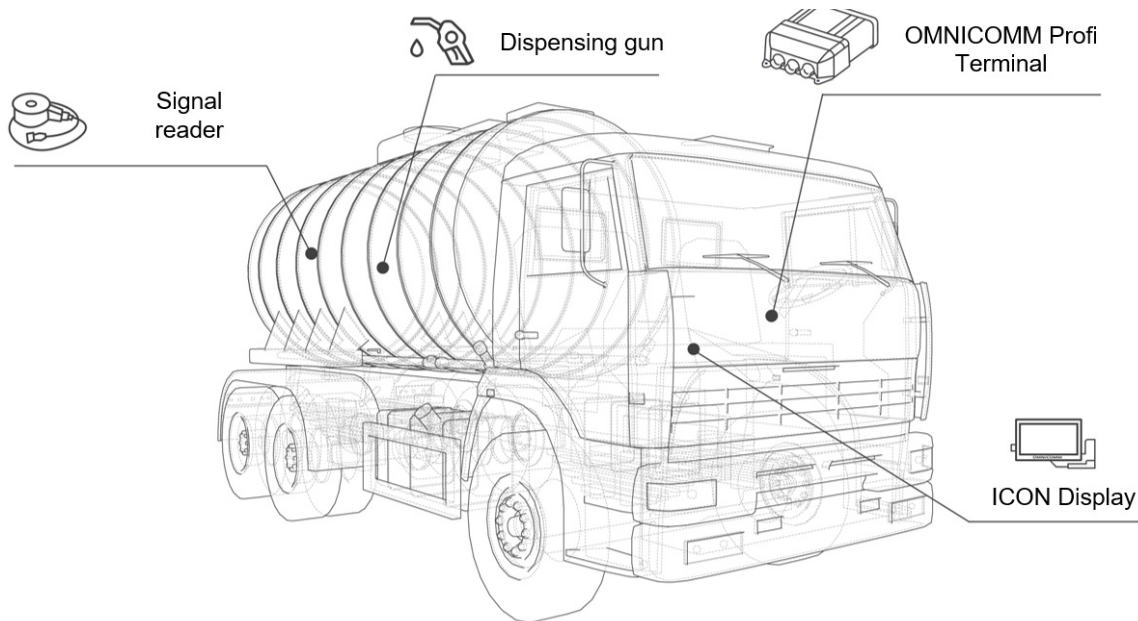
## **Use Cases**

Press the “Save” button.

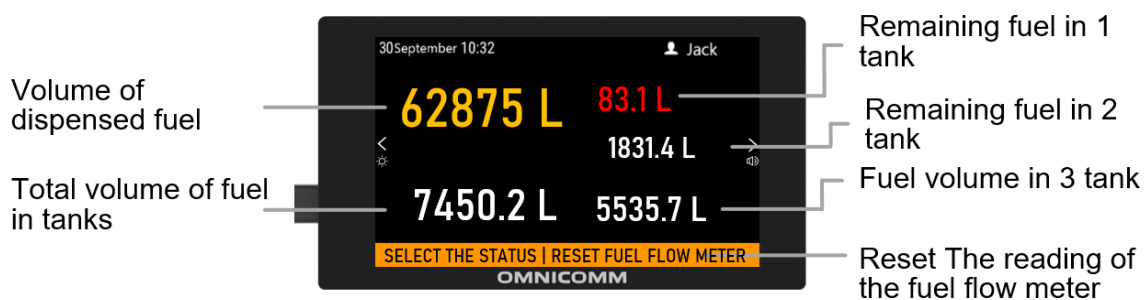
## Use Cases

### Monitoring the fuel dispensing by a fuel tanker

In this case, we look at the operation of a fuel tanker with an installed signal reader with a PPO fuel flow meter. The Omnicomm ICON display allows us to monitor the volume of dispensed fuel through the fuel tanker's dispensing gun and the remaining fuel in the fuel tank.



#### Use:



If the fuel volume goes below the threshold value, the amount of remaining fuel will be highlighted in red and a sound notification will ring.

If necessary, use the button "Reset Fuel Flow Meter" to reset the output volume.

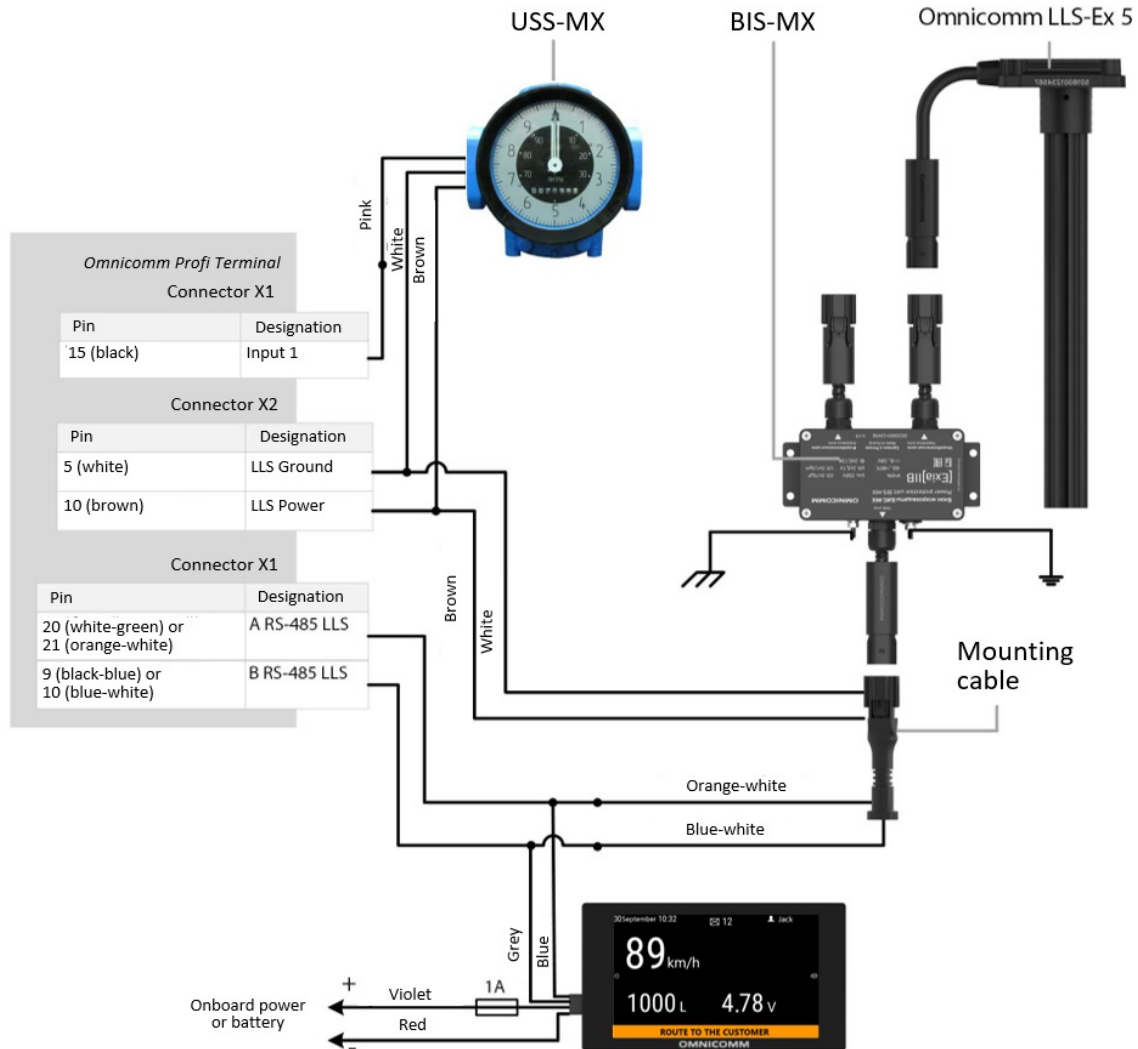
#### Equipment:

- Omnicomm Profi terminal
- Omnicomm LLS-Ex 5 Fuel level sensors
- BIS-MX Spark protection unit

## Use Cases

- Omnicomm ICON Display

### Connection:



### Settings:

The configuration of the Omnicomm LLS-Ex 5 fuel level sensor is performed according to the sensor's user manual.

The BIS-MX spark protection unit does not require configuration.

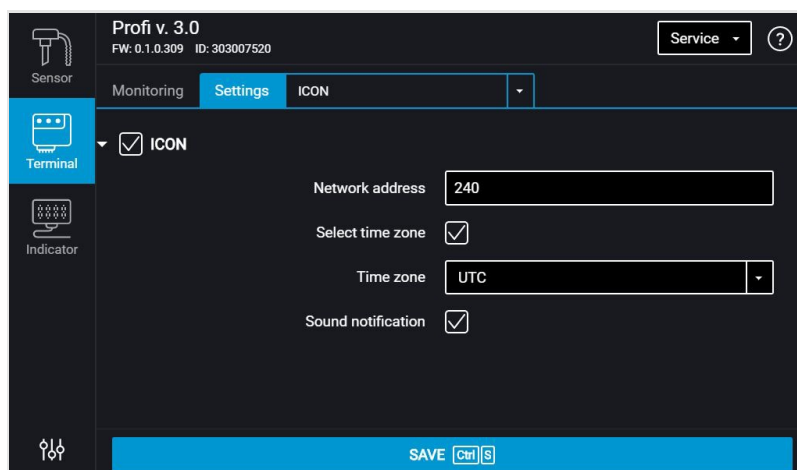
#### Omnicomm Profi terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.

## Use Cases



**"ICON"** – check the box to display the data from the terminal on the Omnicomm ICON display

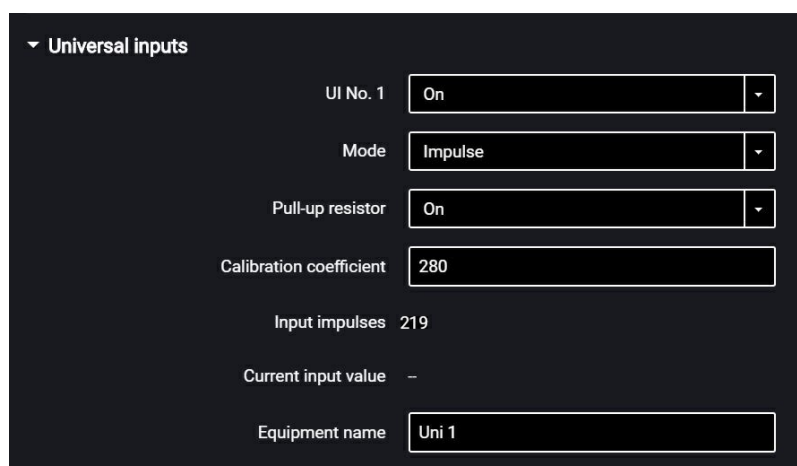
- "Network address" – select the display network address. Possible values: from 7 to 254
- "Select the time zone" - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

"Time zone" – select the time zone

- "Sound notification" - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

In the "Settings" tab select the "Inputs" section from the list.

In the "Universal inputs" section, configure the universal input No. 1:



"Universal input No. 1" – select "Enabled".

"Operating mode" – select "Pulse".

"Equipment name" – enter the monitored parameter name. For example, volume of fuel

## Use Cases

dispensed.

“Pull-up resistor” – select “Enabled” when working with “open collector”-type sensors or contact sensors.

“Coefficient of pulse input calibration” – enter the calibration factor for converting the number of pulses to the determined physical quantity. Enter the value of the calibration coefficient depending on the model of the Signal pickup device and the PPO Fuel dispensing meter according to the table:

| USS variations | Use as part of products                            | Calibration factor |
|----------------|----------------------------------------------------|--------------------|
| USS-B-70       | PPV-100-1,6; PPV-100-6,4; PPV-150-1,6; PPV-150-6,4 | 35,714             |
| USS-B-70       | PPO-25-1,6; ShZhU-25-1,6                           | 1                  |
| USS-B-70       | PPO-40-0,6; ShZhU-40-0,6                           | 3,571              |
| USS-B-25       | PPV-100-1,6; ППВ-100-6,4; PPV-150-1,6; PPV-150-6,4 | 100                |
| USS-B-25       | PPO-25-1,6; ShZhU-25-1,6                           | 2,8                |
| USS-B-25       | PPO-40-0,6; ShZhU-40-0,6                           | 10                 |

Press the “Save” button.

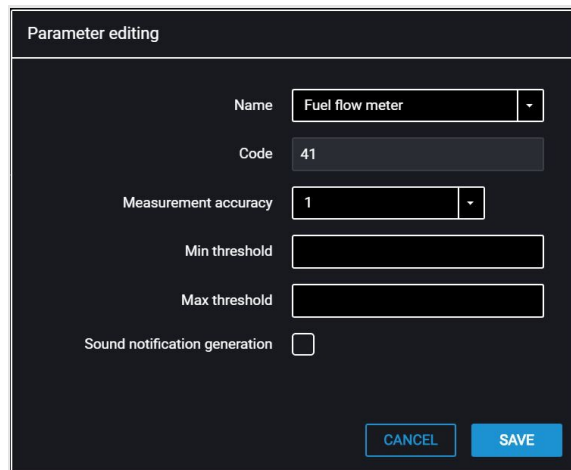
### Omnicommm ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters “Fuel flow meter”, “Tank 1”, “Tank 2”, “Tank 3”, “Total in tanks” to the screen.

## Use Cases

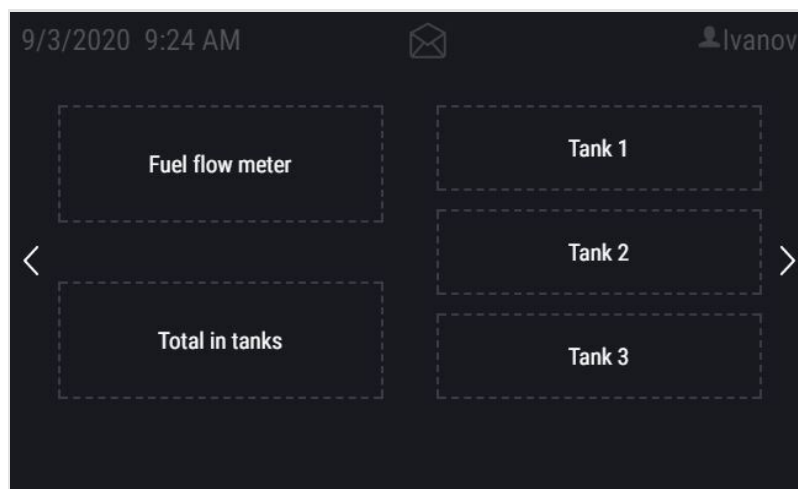


A dark-themed dialog box titled "Parameter editing". It contains several input fields: "Name" with a dropdown menu showing "Fuel flow meter", "Code" with a text field containing "41", "Measurement accuracy" with a dropdown menu showing "1", "Min threshold" with an empty text field, "Max threshold" with an empty text field, and "Sound notification generation" with an unchecked checkbox. At the bottom right are two buttons: "CANCEL" and "SAVE".

When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display. Possible values: 0, 1
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded

Configure the parameter display on screen as shown in the figure:

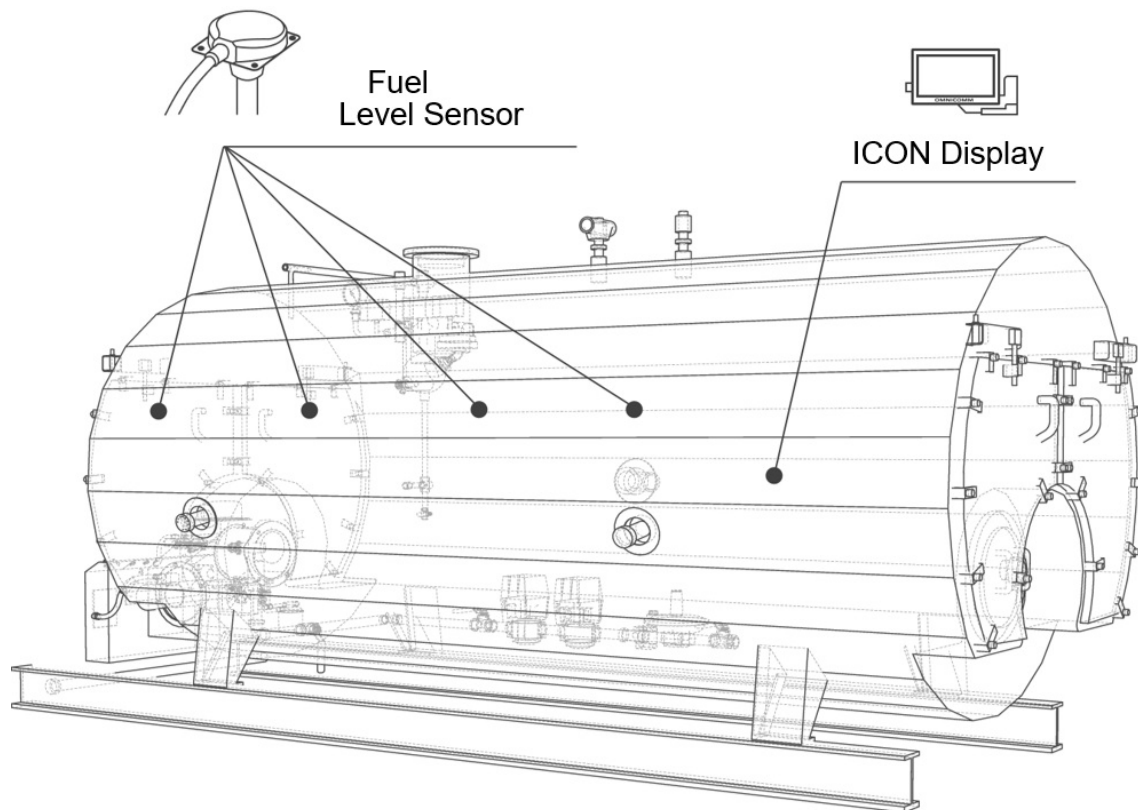


Press the “Save” button.

## Use Cases

### Stationary tank with four fuel level sensors

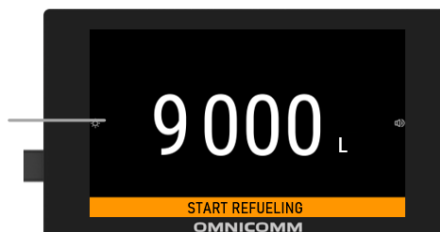
In this case, we look at monitoring fuel volume in a stationary tank when several fuel level sensors are installed. The Omnicomm ICON display is used to monitor the remaining fuel in the container.



#### Use:

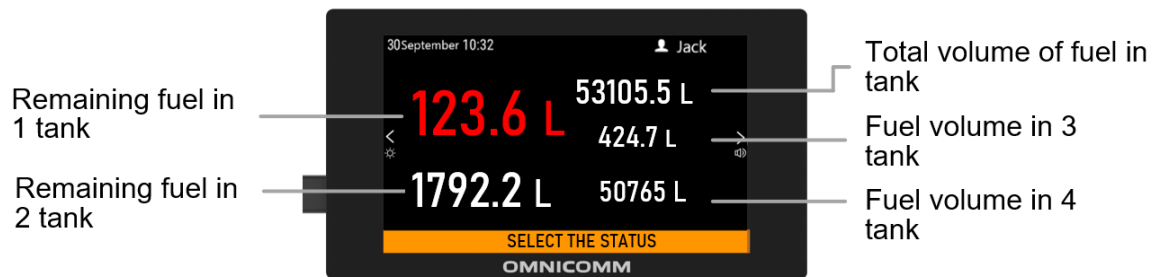
When used only with the Omnicomm LLS fuel level sensors

Total volume of  
fuel in tank



When used together with a terminal

## Use Cases



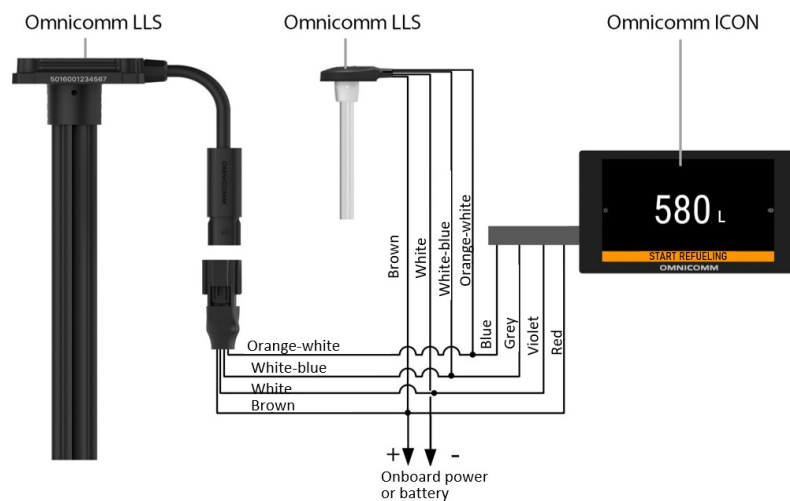
If the fuel volume goes below the threshold value, the amount of remaining fuel will be highlighted in red and a sound notification will ring.

### Equipment:

- Omnicomm LLS 5 fuel level sensors
- Omnicomm ICON Display
- On-board terminal

### Connection:

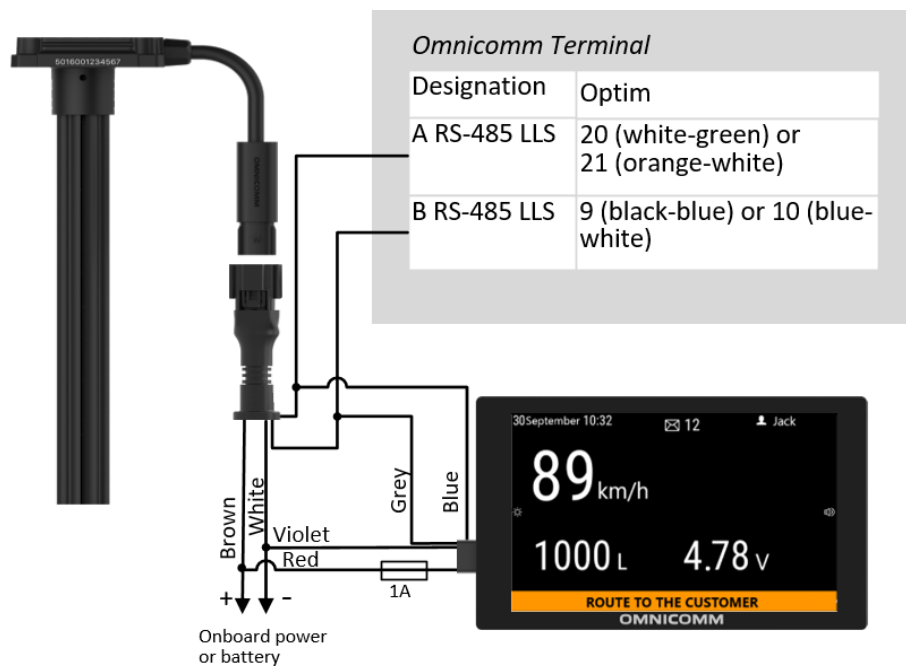
#### Connection to the Omnicomm LLS fuel level sensors



#### Connection to the terminal

The diagram example of equipment connection is given for the Omnicomm Optim terminal. To connect to an Omnicomm terminal of a different model, see diagrams in the [Connection](#) section.

## Use Cases



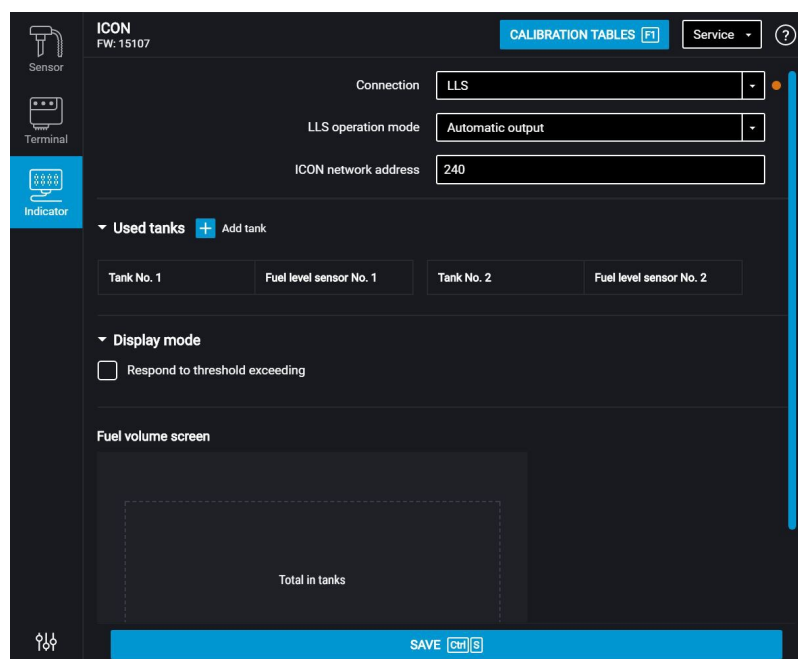
Several Omnicomm LLS fuel level sensors can be connected side-by-side via the RS-485 interface.

### Settings:

The configuration of the Omnicomm LLS 5 fuel level sensor is performed according to the sensor's user manual.

### ICON display configuration when used only with the Omnicomm LLS fuel level sensors

Omnicomm ICON display supports up to 4 fuel tanks. The maximum number of Omnicomm LLS fuel level sensors is 4.



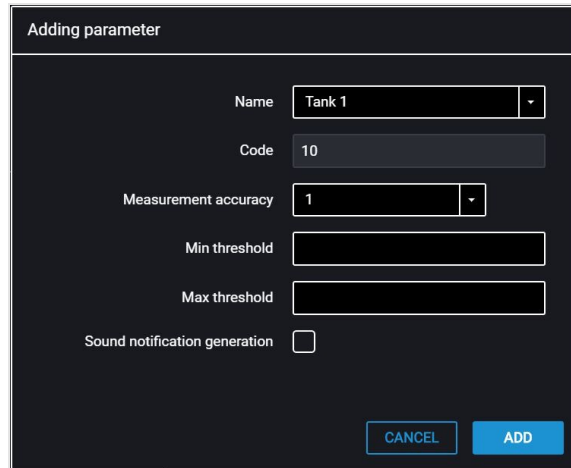
## Use Cases

### ICON display configuration when used together with a terminal

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters “Tank 1”, “Tank 2”, “Tank 3”, “Tank 4”, “Total in tanks” to the screen.

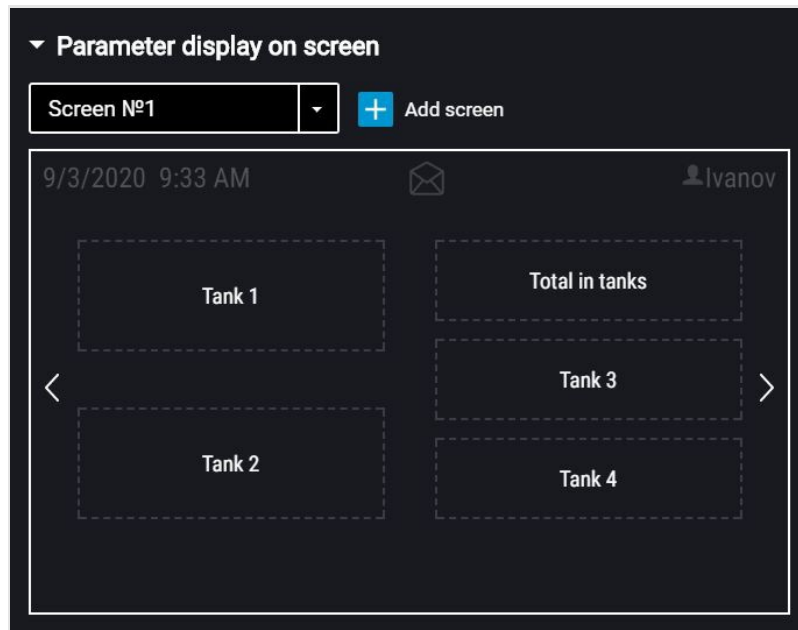


When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded

Configure the parameter display on screen as shown in the figure:

## Use Cases



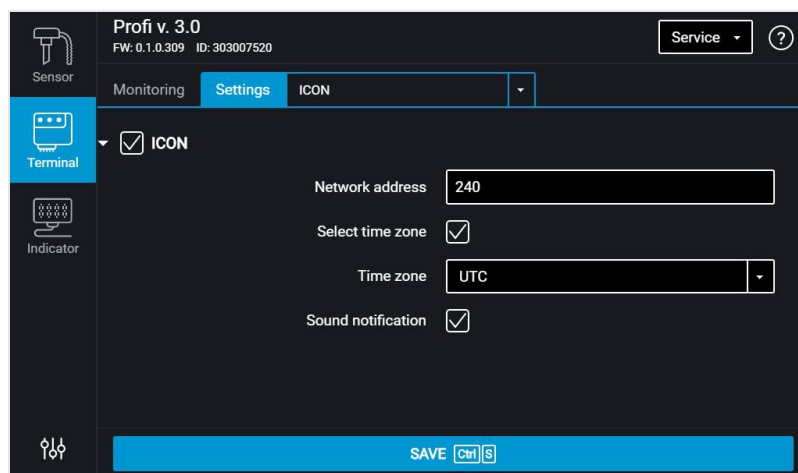
Press the “Save” button.

### Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



“**ICON**” – check the box to display the data from the terminal on the Omnicomm ICON display

- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

“Time zone” – select the time zone

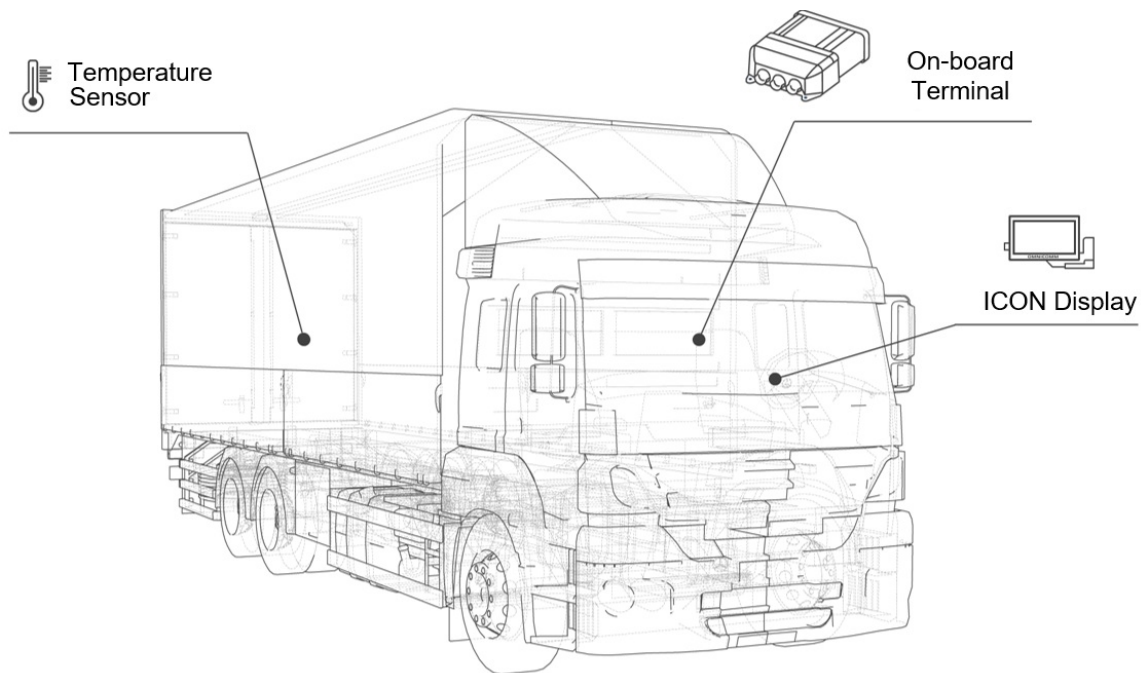
## Use Cases

- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

## Use Cases

### Refrigerator with temperature sensors

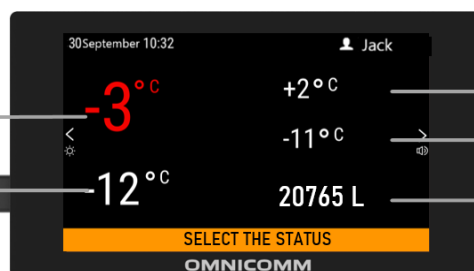
In this case, we look at monitoring vehicles carrying food products that have strict requirements for temperature conditions during transportation and storage. The Omnicomm ICON display is used to monitor the temperature in the refrigerator sections and the fuel remaining in the tank with the help of temperature sensors and an LLS fuel level sensor.



#### Use:

The temperature reading of 1 sensor is below the threshold

The temperature reading of 2 sensor



The temperature reading of 3 sensor

The temperature reading of 4 sensor

Total volume of fuel in tank

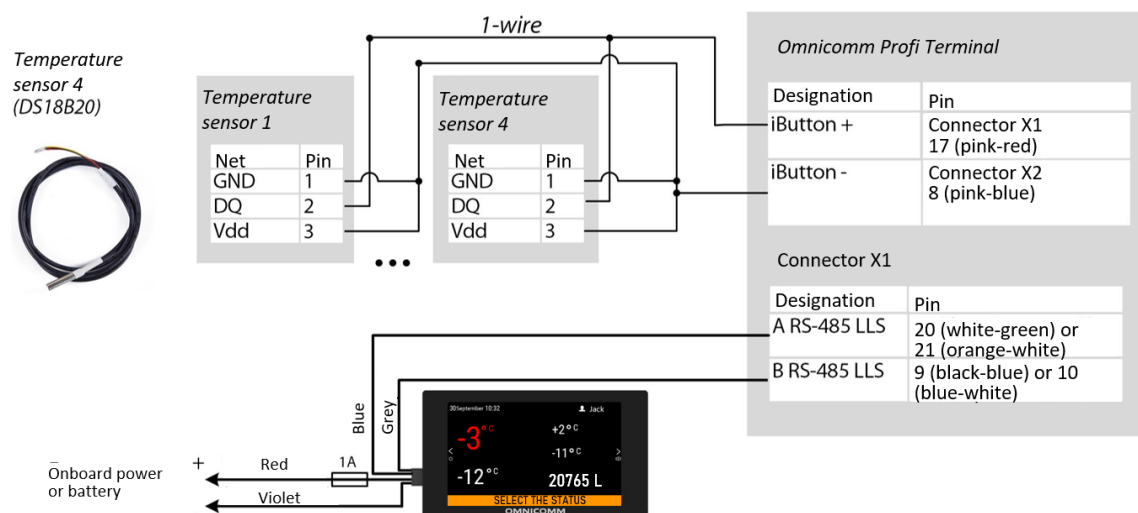
#### Equipment:

- Omnicomm terminal
- Omnicomm ICON Display
- Temperature sensors

#### Connection:

## Use Cases

The diagram example of equipment connection is given for the Omnicomm Profi terminal. The connection to other models of Omnicomm terminals is performed according to the terminals' user manuals.



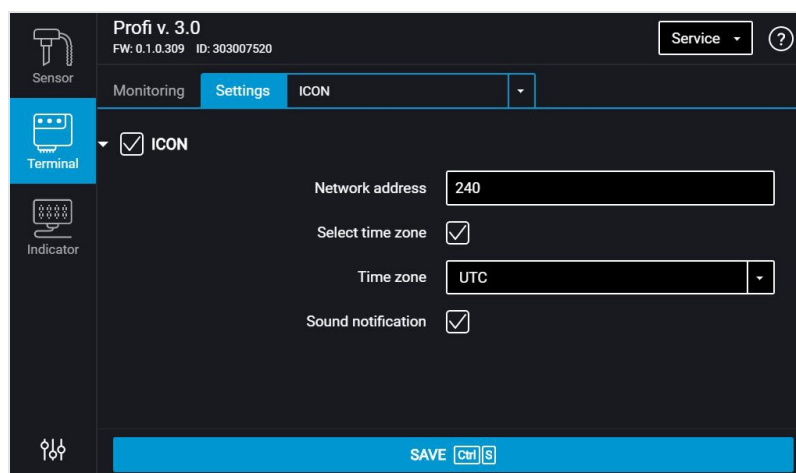
## Configuration:

### Omnicomm Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



**“ICON”** – check the box to display the data from the terminal on the Omnicomm ICON display

- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

## Use Cases

“Time zone” – select the time zone

- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

In the “Settings” tab, select the “Auxiliary equipment” section from the list.

In the “Temperature sensors” section, the temperature sensors connected to the 1-Wire interface are displayed:

▼ Temperature sensors

Configure temperature sensors

Temperature sensor setting

| Sensor ID        | Value | Transmit the value of 1-wire sensor instead of UI |
|------------------|-------|---------------------------------------------------|
| CC000009A848C828 | 28    | 1                                                 |
| D000009A769CA28  | 27    | 2                                                 |
| 40000009A69FC128 | 27    | 3                                                 |
| 2B000009A654B928 | 28    | 4                                                 |

“Transmit the value of 1-Wire sensor instead of UI” - select the number of the universal input for displaying the temperature values on Omnicomm Online.

In the “**Universal Inputs**” section:

Sensor

Terminal

Indicator

Profi v. 3.0  
FW: 0.1.0.309 ID: 303007520

Service ?

Monitoring Settings Inputs

UI No. 2 On

Mode 1-Wire

“Operation mode” – select 1-Wire.

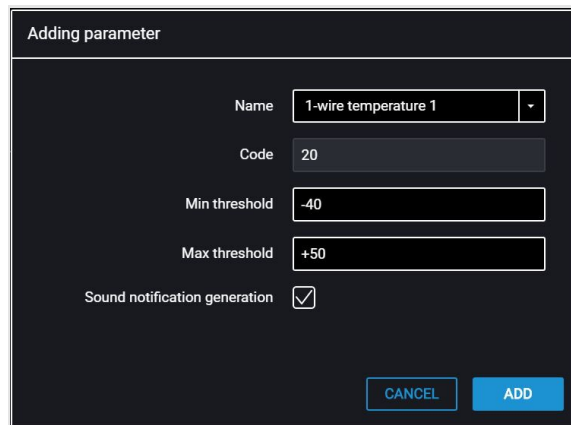
### Omnicommm ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters “1-wire temperature 1”, “1-wire temperature 2”, “1-wire temperature 3”, “1-wire temperature 4”, “Total in tanks” to the screen.

## Use Cases



Adding parameter

Name: 1-wire temperature 1

Code: 20

Min threshold: -40

Max threshold: +50

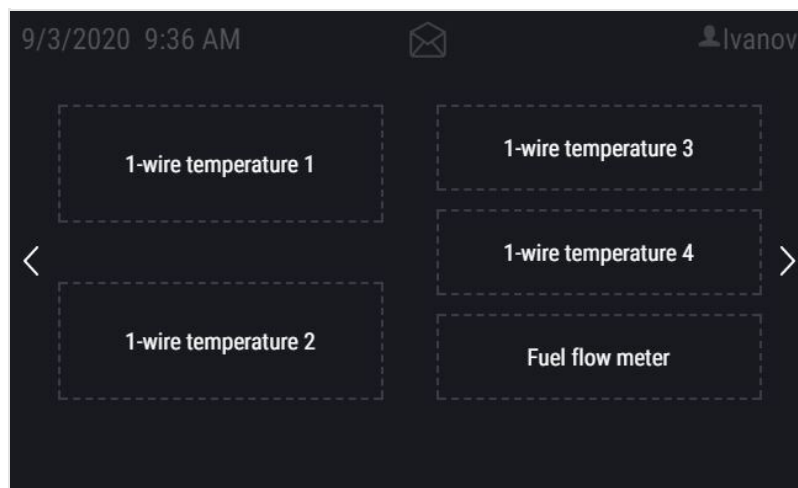
Sound notification generation: ☒

CANCEL ADD

When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded

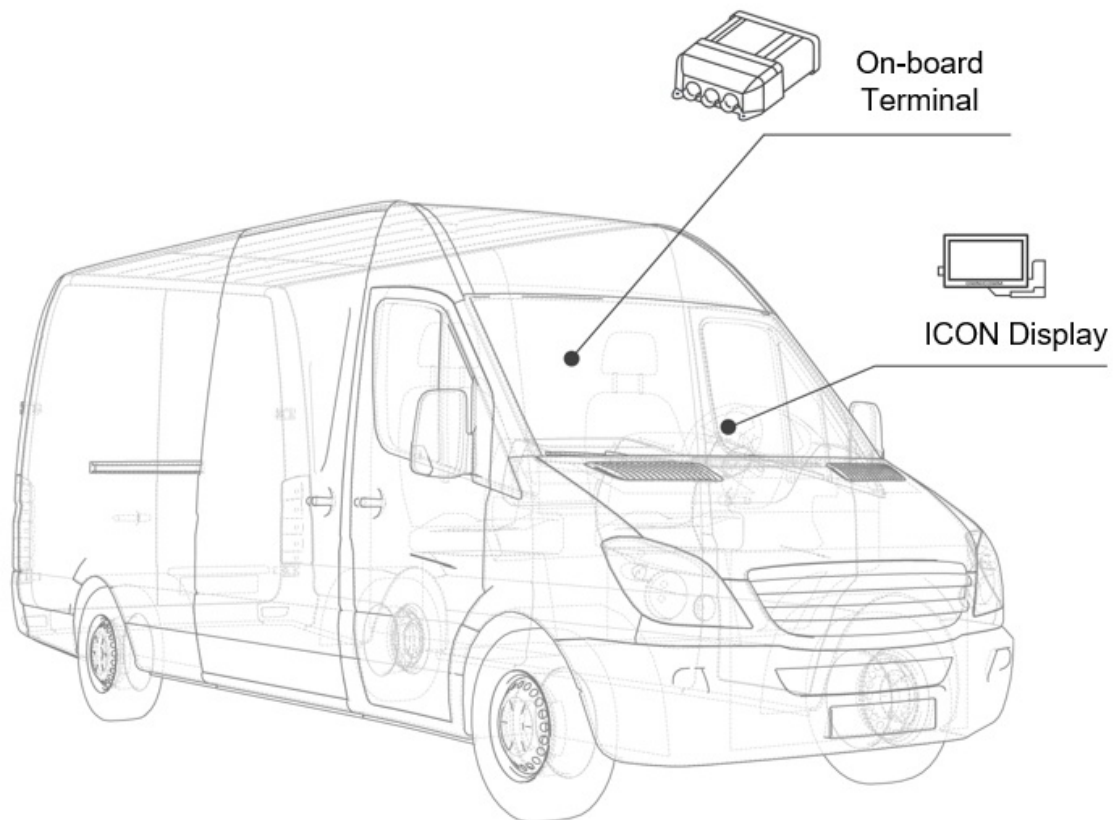
Configure the parameter display on screen as shown in the figure:



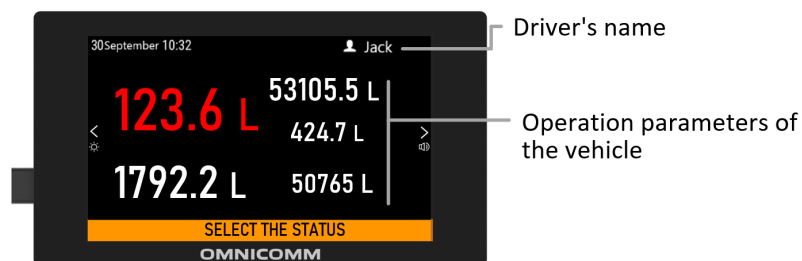
Press the “Save” button.

### Vehicle fleet with driver identification

In this case, we look at vehicle monitoring. The Omnicomm ICON display provides driver identification via RFID cards. Two identification options are available: Applying or Retention of RFID cards. For identification through retention, you will need to acquire an RFID card holder.



#### Use:



When using a card that was not registered during the terminal configuration, access to the Omnicomm ICON display will be forbidden:

## Use Cases

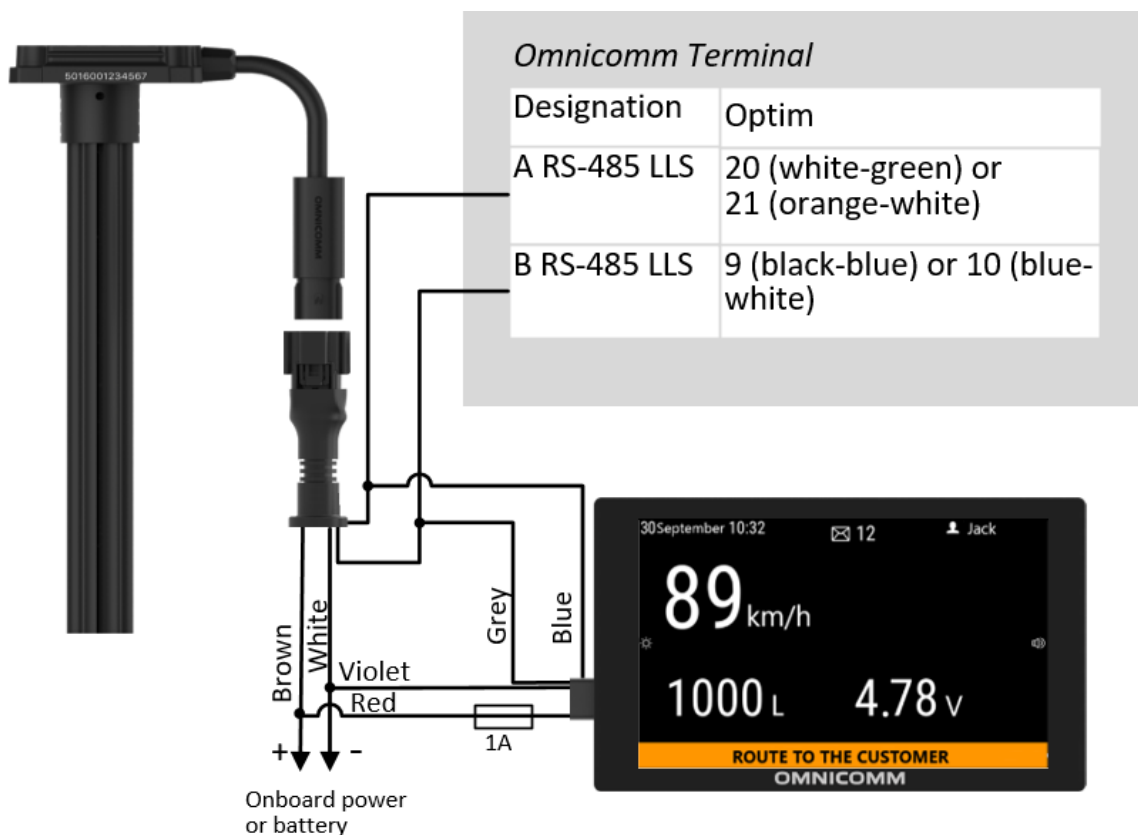


### Equipment:

- Omnicomm ICON Display
- ID card
- On-board terminal

### Connection:

The diagram example of equipment connection is given for the Omnicomm Optim terminal. To connect to an Omnicomm terminal of a different model, see diagrams in the [Connection](#) section.



### Configuration:

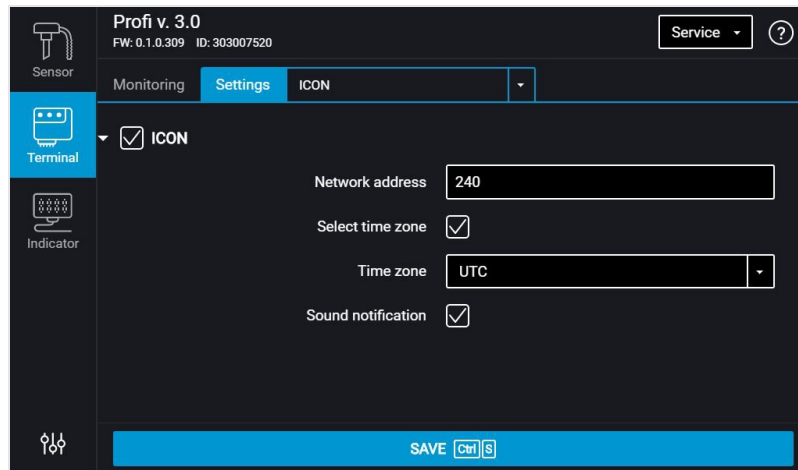
Omnicomm Terminal configuration

## Use Cases

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



**“ICON”** – check the box to display the data from the terminal on the Omnicomm ICON display

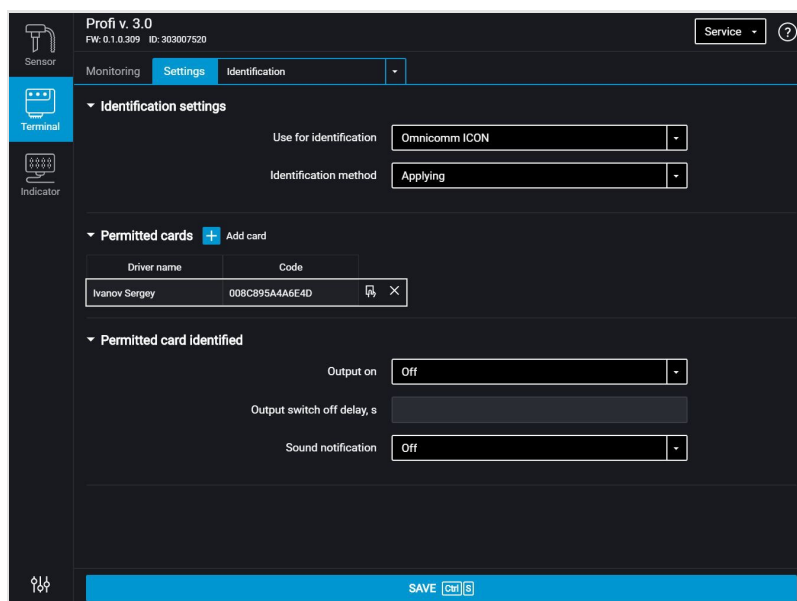
- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

“Time zone” – select the time zone

- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

In the “Settings” tab select the “Identification” section from the list.

## Use Cases



**“Use for identification”** – select the identification method “Omniconm ICON”.

**“Identification method”** – select the method of identification. Possible options:

- “Applying” – the identification is performed when a card is applied for the period of time specified in the parameter “Key/card identification time”.
- “Retention” – identification is performed by holding the card on the reader. This method is applied for identification via Omnicomm ICON display using the cardholder.

**“Card identification duration”** – specify the time value when a card is applied, after which will be enabled the second digital output of the terminal. Possible values: from 0 to 60 seconds.

In the **“Permitted cards”** section, click on **“Add card”** and enter the numbers of the cards which, when applied, will turn on the second discrete output. For automatic reading of the card number, connect Omnicomm ICON display to the terminal, switch on the readout mode and apply card.

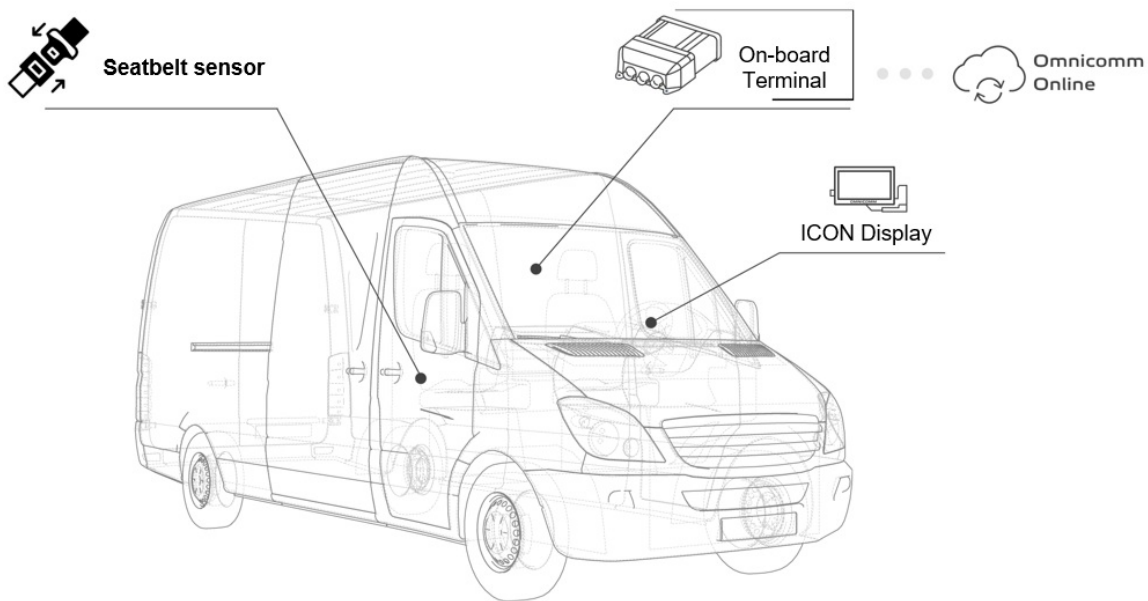
Enter the identification number of the RFID card without the last two digits.  
For example, for the card no. 8C895A4A6E4D80 the number 8C895A4A6E4D is indicated.

## Use Cases

### Driving Safety Control

The Omnicomm ICON display is used in driving safety control:

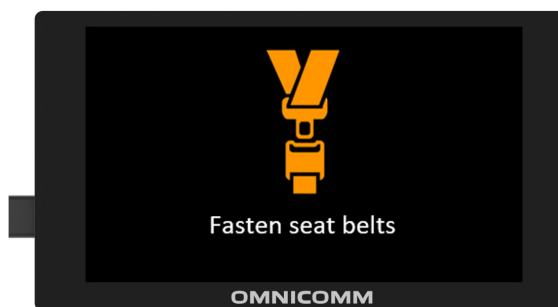
- warning about an open door, unfastened seatbelt, headlights off, entering/leaving a geofence sent to the display
- synchronization of events with Safe Driving reports in Omnicomm Online



#### Use:

##### Driving safety control through the display:

Notification about an unfastened seatbelt and vehicle speed greater than the value specified during terminal configuration:



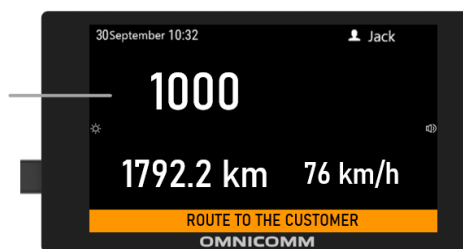
Notifications when the acceleration thresholds are exceeded (suspension deceleration - vertical acceleration; sharp braking - braking):

## Use Cases



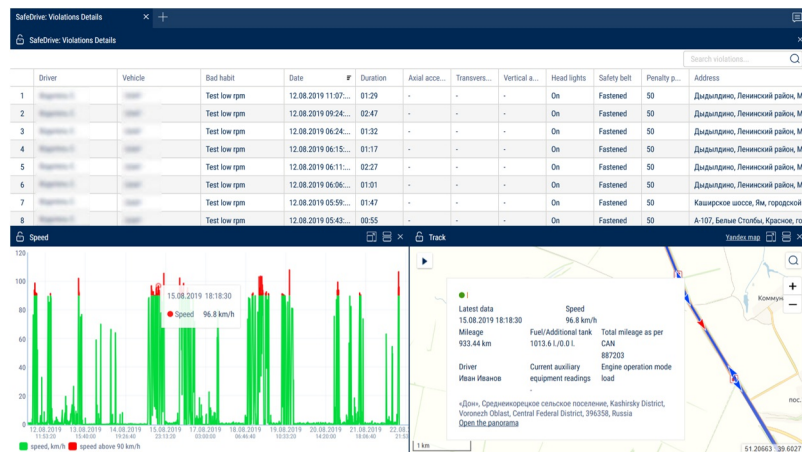
Universal input status on the Omnicomm ICON display:

Universal input value:  
0 - unfastened belt  
1000 - seatbelt fastened

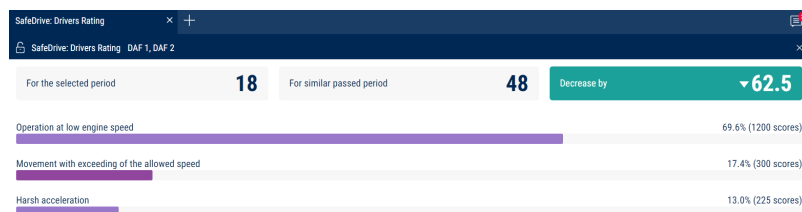


## Driving safety control in Omnicomm Online reports:

The “SafeDrive: Violation details” report:



The “SafeDrive: Driver rating” report:



A detailed description of the reports can be found in the Omnicomm Online User Manual (see [the "SafeDrive: Violation details" report](#) and [the "SafeDrive: Driver rating" report](#)).

## Use Cases

### Hardware and software:

- Omnicomm terminal
- Omnicomm ICON Display
- Omnicomm Online

### Connection:

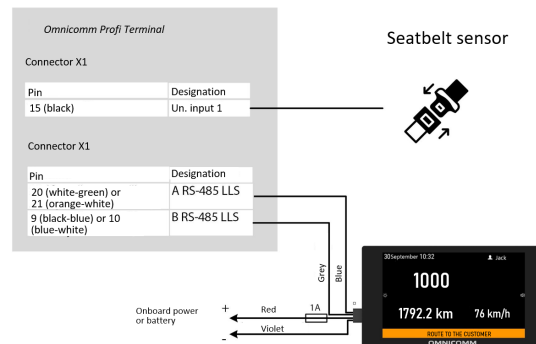
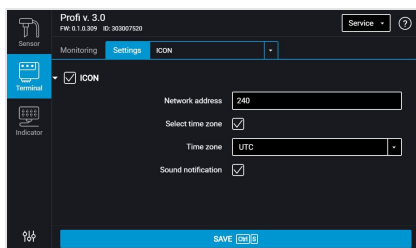
#### Settings:

#### Omnicomm Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



“**ICON**” – check the box to display the data from the terminal on the Omnicomm ICON display

- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

“Time zone” – select the time zone

- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal and display configuration.

In the “**Universal Inputs**” section:

## Use Cases

▼ Universal inputs

UI No. 1

Mode

Pull-up resistor

Input signal inversion

Turn-on voltage threshold (V)

Current input voltage (v)

Current input value

Equipment name

“Universal input No. 1” – select “Enabled”.

“Operating mode” – select “Direct-current”.

“ON voltage threshold” – set the value of voltage threshold after which the terminal will register the seatbelt fastening.

“Pull-up resistor” – select “Enabled” when working with “open collector”-type sensors or with dry contact sensors.

“Input signal inversion” – set “Enabled” for sensors with default open contacts or for contacts which close after the seatbelt is fastened.

“Equipment name” – enter the monitored parameter name. For example, Seatbelt.

In the **“Driving control”** section:

Profi v. 3.0  
FW: 0.1.0.309 ID: 303007520

Monitoring **Settings** Driving control

▼ ☒ Dangerous driving control

|                                                   | Event sending                       | Threshold                         | Error                            | Duration, s                     | Sound notification                  |
|---------------------------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|-------------------------------------|
| Speed, km/h                                       | <input checked="" type="checkbox"/> | <input type="text" value="80"/>   | <input type="text" value="5"/>   | <input type="text" value="15"/> | <input checked="" type="checkbox"/> |
| Revolutions (rpm)                                 | <input type="checkbox"/>            | <input type="text" value="4000"/> | <input type="text" value="200"/> | <input type="text" value="15"/> | <input type="checkbox"/>            |
| Acceleration, g                                   | <input checked="" type="checkbox"/> | <input type="text" value="2.00"/> |                                  |                                 | <input checked="" type="checkbox"/> |
| Lateral acceleration, g                           | <input checked="" type="checkbox"/> | <input type="text" value="2.00"/> |                                  |                                 | <input type="checkbox"/>            |
| Braking, g                                        | <input type="checkbox"/>            | <input type="text" value="2.00"/> |                                  |                                 | <input checked="" type="checkbox"/> |
| Vertical acceleration (pounding/impact), g        | <input checked="" type="checkbox"/> | <input type="text" value="2.00"/> |                                  |                                 | <input type="checkbox"/>            |
| Speed and Exceeding of threshold of potential UI1 | <input checked="" type="checkbox"/> | <input type="text" value="20"/>   |                                  |                                 | <input checked="" type="checkbox"/> |
| Speed and Exceeding of threshold of potential UI2 | <input checked="" type="checkbox"/> | <input type="text" value="20"/>   |                                  |                                 | <input checked="" type="checkbox"/> |

“Speed and Exceeding of threshold of potential UI1”:

Threshold - enter the threshold value which, if exceeded, will trigger the registration of a

## Use Cases

fastened/unfastened seatbelt event.

The notification for the event "Speed and Exceeding of threshold of potential UI1, UI2" is generated only when the selected speed source for the terminal is "GPS" (see [Omnicom terminals 3.0. User Manual. The "Selection of Speed Source" section](#)).

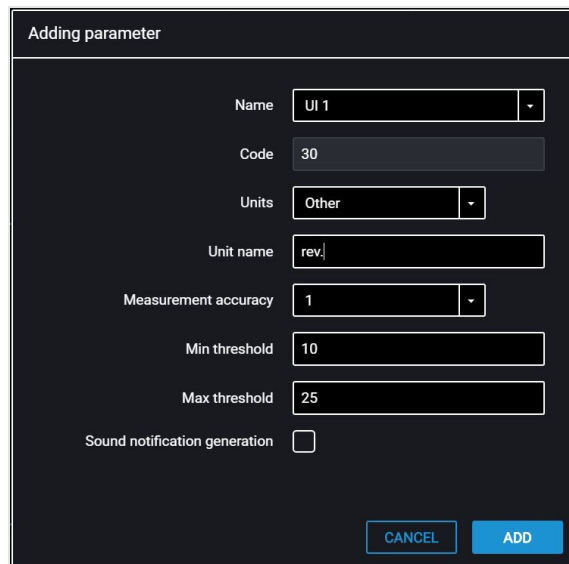
To set up notifications for suspension impact and sudden braking, specify the threshold values of vertical acceleration and breaking.

### Omnicom ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters "UI 1", "Mileage", "Speed" to the screen.

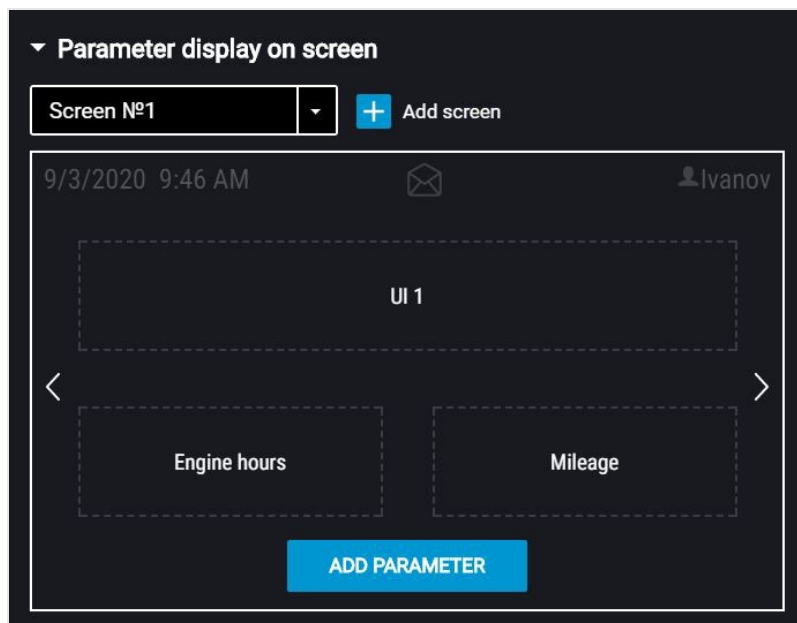


When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting "Other". Enter the unit of measurement in the "Unit name" field.
- Measurement accuracy – select the number of digits after decimal point to display.
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded.

## Use Cases

Configure the parameter display on screen as shown in the figure:



Press the “Save” button.

### Settings in Omnicomm Online

- Open the browser and enter the address <http://online.omnicomm.ru>. Enter your login and password in the window that opens
- Enable the “Safe driving” service for the vehicle
- Select the vehicle or the driver
- Select the time period for report generation

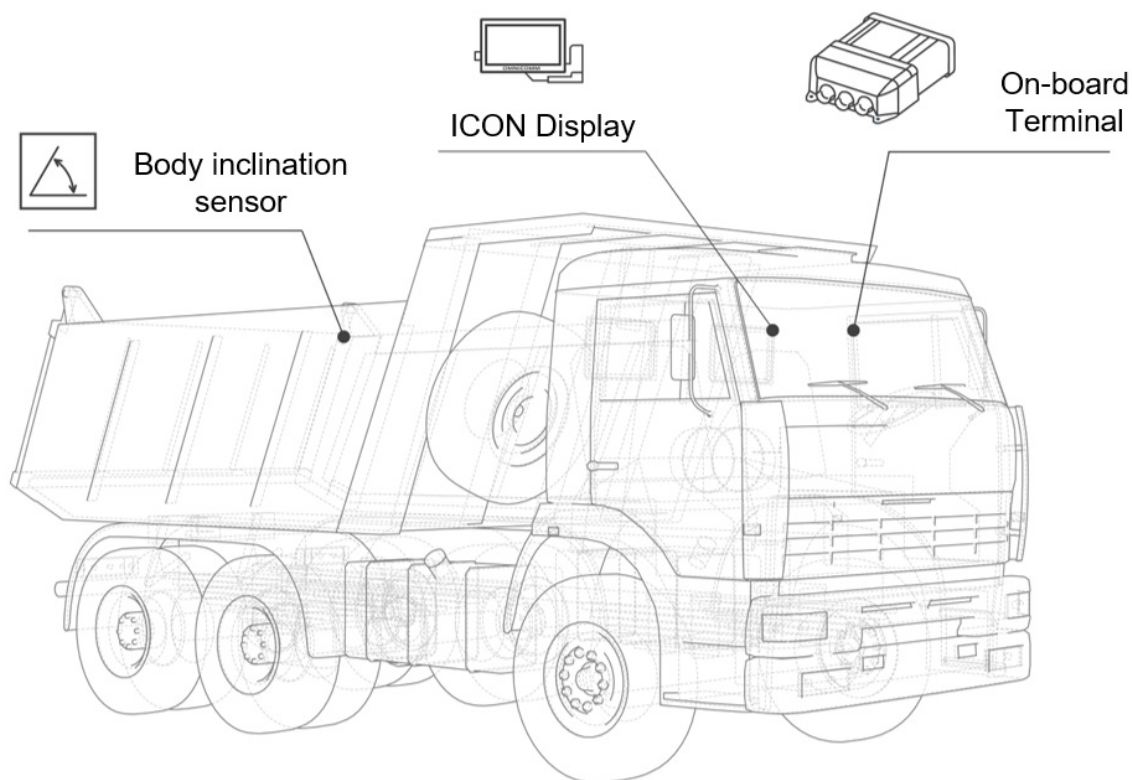
| Services                                                                                   |              |               |
|--------------------------------------------------------------------------------------------|--------------|---------------|
| <input type="radio"/> Current period<br><input checked="" type="radio"/> Select the period |              |               |
| January 2019                                                                               |              |               |
| Export to Excel                                                                            |              |               |
| Service name                                                                               | January 2019 | Current value |
| Executive's Desktop                                                                        | 96           | 96            |
| Fuel balance                                                                               | 6            | 6             |
| Omnicom Connect Reports                                                                    | 92           | 92            |
| Video 1 Gb                                                                                 | 7            | 7             |
| Video 5 Gb                                                                                 | 1            | 1             |
| Safe driving                                                                               | 4            | 4             |
| Active vehicles                                                                            | 308          | 294           |
| Inactive vehicles                                                                          | 155          | 171           |

View a vehicle  
Switching on/off of  
services for a vehicle

## Use Cases

### Construction Machinery

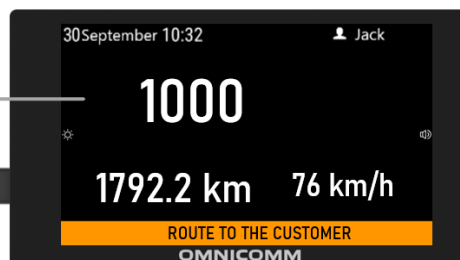
The Omnicomm ICON display allows you to control a wide range of construction equipment, such as the position of the dozer blade or tractor attachments, or the speed of the cement mixer. In this case, let's look at the monitoring of the position of a dump truck body and the rotations of a cement mixer truck.



#### Use:

The dump truck body position shown on the display:

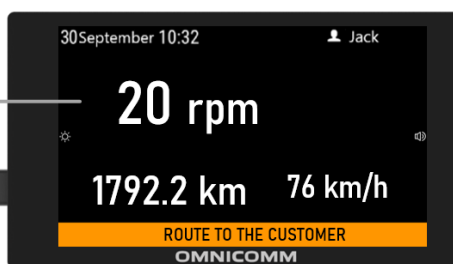
Value from universal input:  
0 – the body is lowered  
1000 – the body is lifted



The rotations of a cement mixer truck shown on the display:

## Use Cases

Value from universal input:  
Cement mixer motor

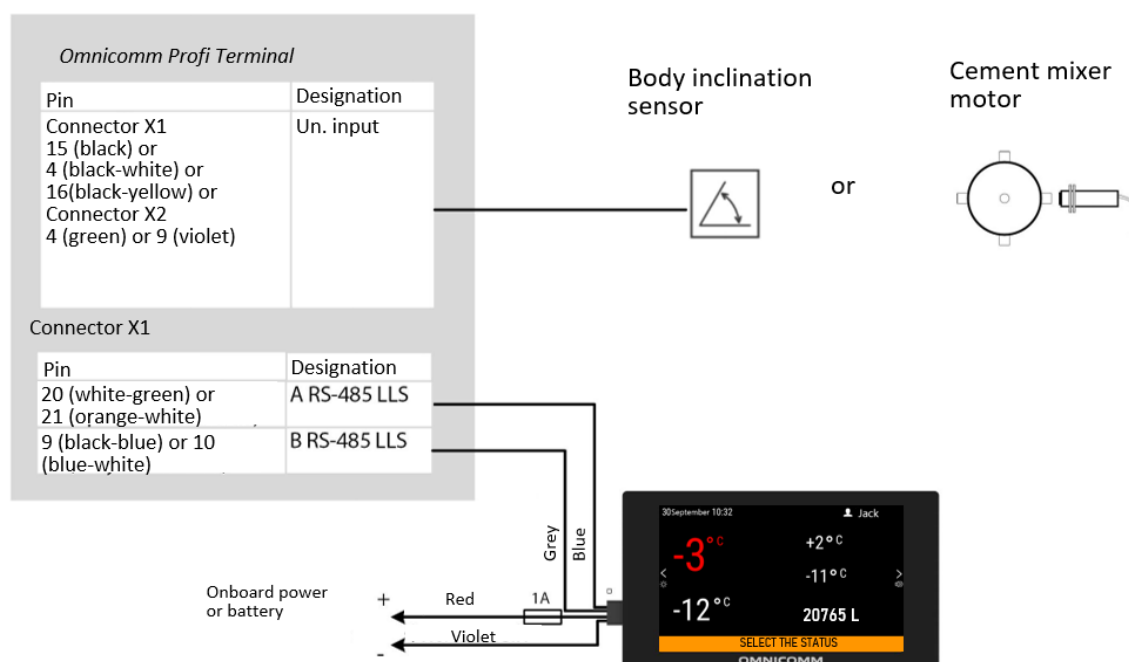


### Equipment:

- Omnicomm terminal
- Omnicomm ICON Display

### Connection:

The diagram example of equipment connection is given for the Omnicomm Profi terminal. To connect to an Omnicomm terminal of a different model, see diagrams in the [Connection](#) section.



### Settings:

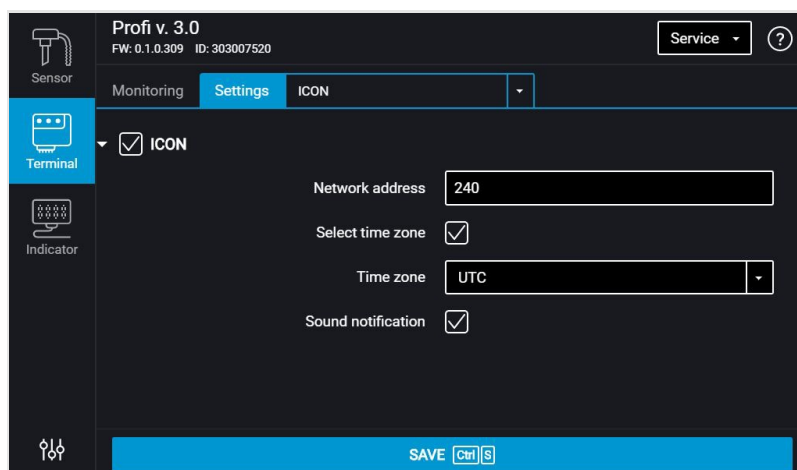
#### Omnicomm Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.

## Use Cases



**“ICON”** – check the box to display the data from the terminal on the Omnicomm ICON display

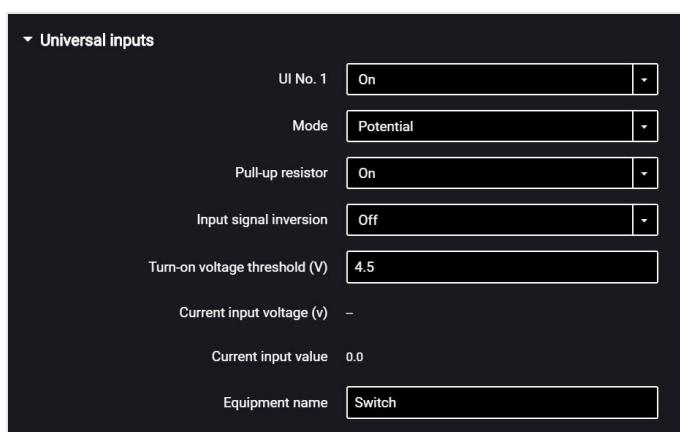
- **“Network address”** – select the display network address. Possible values: from 7 to 254
- **“Select the time zone”** - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

**“Time zone”** – select the time zone

- **“Sound notification”** - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal's setup

In the **“Universal Inputs”** section:

- • Universal input configuration when connecting to a body tilt sensor:



**“Universal input No. 1”** – select **“Enabled”**.

**“Operating mode”** – select **“Direct-current”**.

**“ON voltage threshold”** – set the value of voltage threshold after which the terminal will register truck body lifting.

## Use Cases

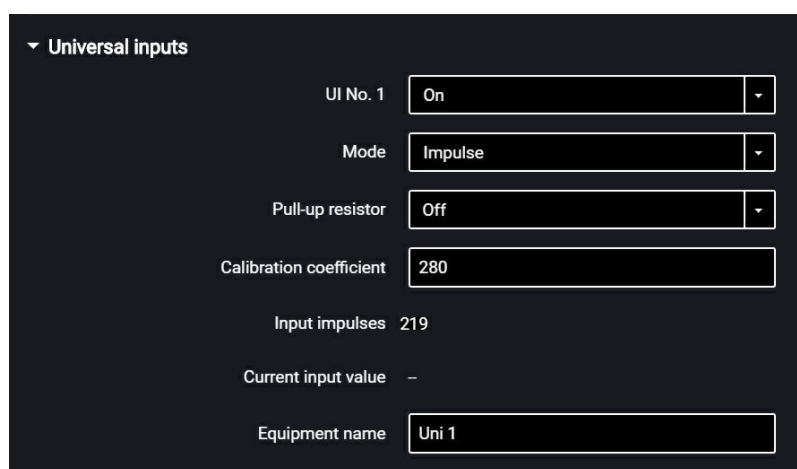
“Pull-up resistor” – select “Enabled” when working with “open collector”-type sensors or with dry contact sensors.

“Input signal inversion” – set “Enabled” for sensors with default open contacts or for contacts which close after the truck body is lifted.

“SMS sending upon triggering” – select “Enabled” to send an SMS when the truck body is lifted.

“Equipment name” – enter the monitored parameter name. For example, Body.

- Universal input configuration when connecting to a cement mixer motor:



The screenshot shows a configuration window titled "Universal inputs" with a dark background. It contains several settings for "UI No. 1":

- UI No. 1:** A dropdown menu set to "On".
- Mode:** A dropdown menu set to "Impulse".
- Pull-up resistor:** A dropdown menu set to "Off".
- Calibration coefficient:** A text input field containing the value "280".
- Input impulses:** A label with the value "219".
- Current input value:** A label with the value "-".
- Equipment name:** A text input field containing the value "Uni 1".

“Universal input” – select “Enabled”.

“Operating mode” – select “Pulse”.

“Equipment name” – enter the monitored parameter name.

“Pull-up resistor” – select “Enabled” when working with “open collector”-type sensors or contact sensors.

“Coefficient of pulse input calibration” – enter the calibration factor for converting the number of pulses to the determined physical quantity.

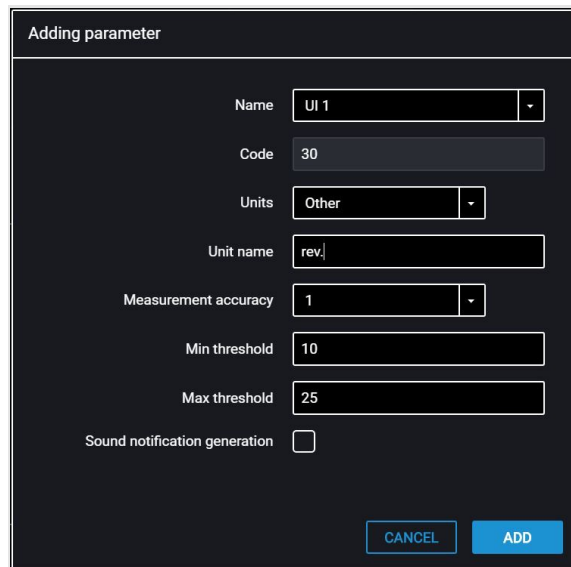
### Omnicom ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

Add the parameters “UI 1”, “Engine hours”, “Mileage” to the screen.

## Use Cases



Adding parameter

Name: UI 1

Code: 30

Units: Other

Unit name: rev

Measurement accuracy: 1

Min threshold: 10

Max threshold: 25

Sound notification generation: ☐

CANCEL ADD

When adding the parameters, specify the following values:

- Units of measurement – units of measurement for the parameter. Select the units of measurement from the list or add your own by selecting “Other”. Enter the unit of measurement in the “Unit name” field
- Measurement accuracy – select the number of digits after decimal point to display
- Minimum threshold – enter the minimum value of the measured parameter
- Maximum threshold – enter the maximum value of the measured parameter
- Sound notification of exceeding thresholds - tick the box if a sound notification is needed when the value is below the minimum threshold or when the maximum threshold is exceeded

Configure the parameter display on screen as shown in the figure:

## Use Cases

▼ Parameter display on screen

Screen №1

+

Add screen

9/3/2020 9:46 AM

Ivanov

UI 1

<

Engine hours

Mileage

>

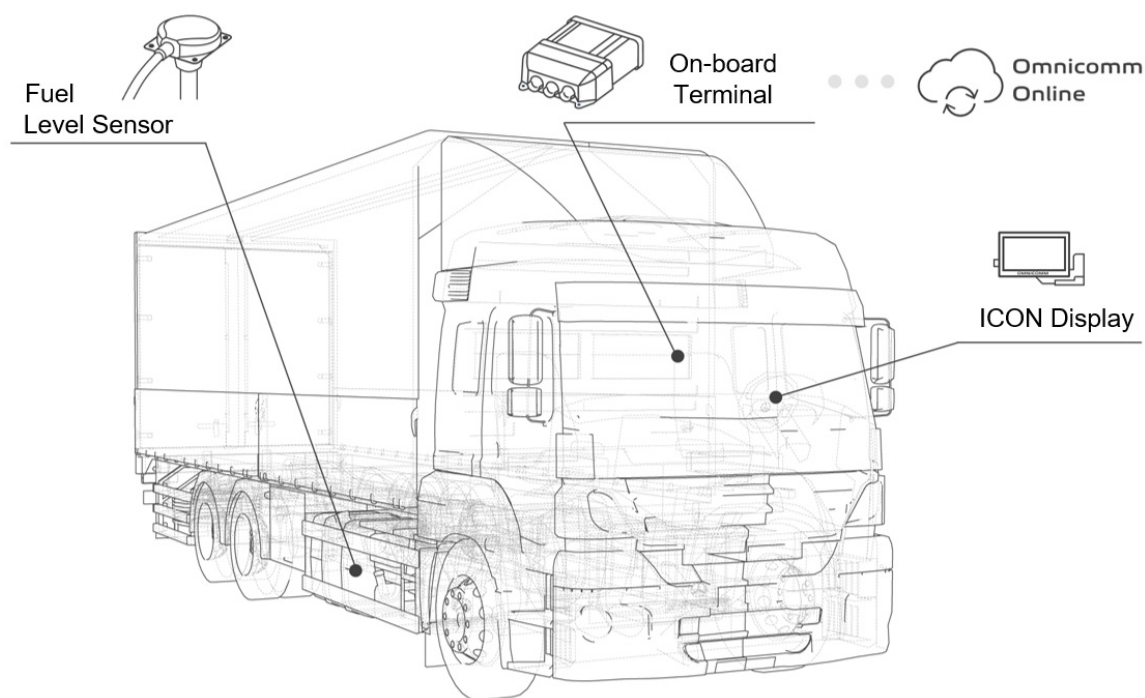
ADD PARAMETER

Press the “Save” button.

## Use Cases

### Driver Statuses in Omnicomm Online

In this case, we look at monitoring driver activity through statuses. On the Omnicomm ICON display, the driver can set a status that corresponds to the activity that is being carried out. To analyze a driver's activity in Omnicomm Online, you can use the report "Task status". Also, when the status changes, an SMS is sent to the dispatcher's number (indicated during terminal configuration). The Omnicomm ICON display supports up to 10 driver statuses.



#### Use:

- Open the browser and enter the address <http://online.omnicomm.ru>. Enter your login and password in the window that opens
- Select the vehicle or the driver
- Select the time period for report generation
- Press the "Add report" button and select "Task status"

## Use Cases

| Name of vehicle | Vehicle status | Vehicle's mileage, km | Consumption by CAN, l | Status Selection Date | Current location | Ignition flag |
|-----------------|----------------|-----------------------|-----------------------|-----------------------|------------------|---------------|
| Lenovo TAB3     | Rest           | -                     | -                     | 29.01.2019 16:40:43   | -                | Off           |

| Name of vehicle | Vehicle status | Driver's name | Start date          | End date            | Duration | Consumption by CAN, l | Fuel consumption, l | Start loc |
|-----------------|----------------|---------------|---------------------|---------------------|----------|-----------------------|---------------------|-----------|
| Lenovo TAB3     | Refueling      | No authorized | 29.01.2019 16:32:03 | 29.01.2019 16:40:43 | 00:08:40 | 0.0 n                 | 0.0 n               |           |
| Lenovo TAB3     | Work           | No authorized | 29.01.2019 16:25:11 | 29.01.2019 16:32:03 | 00:06:52 | 0.0 n                 | 0.0 n               |           |

The report contains the following information on statuses for the report period:

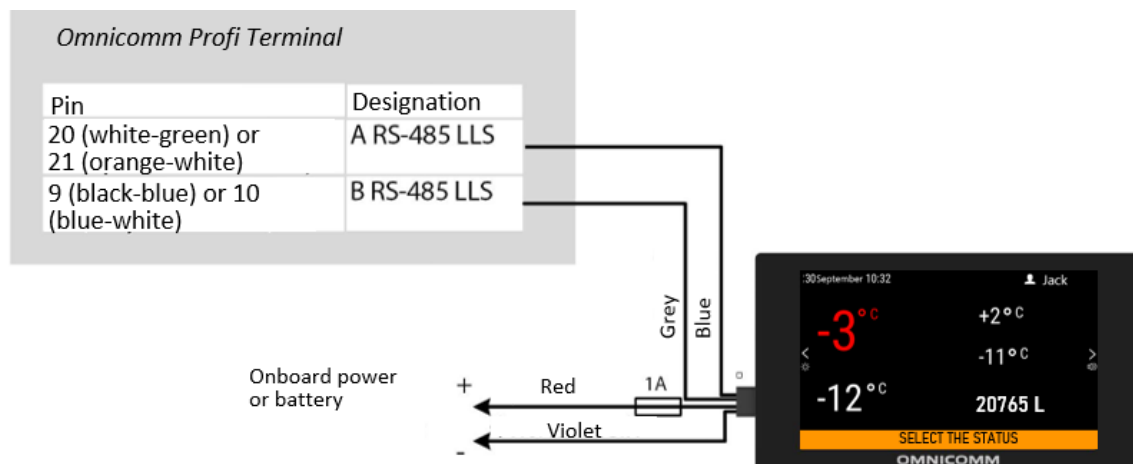
- Driver's name
- Date when the status became effective
- Status expiry date
- Duration of the status
- Fuel consumption per CAN, l
- Fuel consumption, l
- Location where the status became effective
- Status expiry location
- Mileage at the beginning of status activation
- Mileage at status expiry
- Mileage during the period of status activation as per CAN, km
- Mileage during the period of status activation according to GPS, km

### Equipment:

- Omnicomm terminal
- Omnicomm ICON Display

### Connection:

## Use Cases



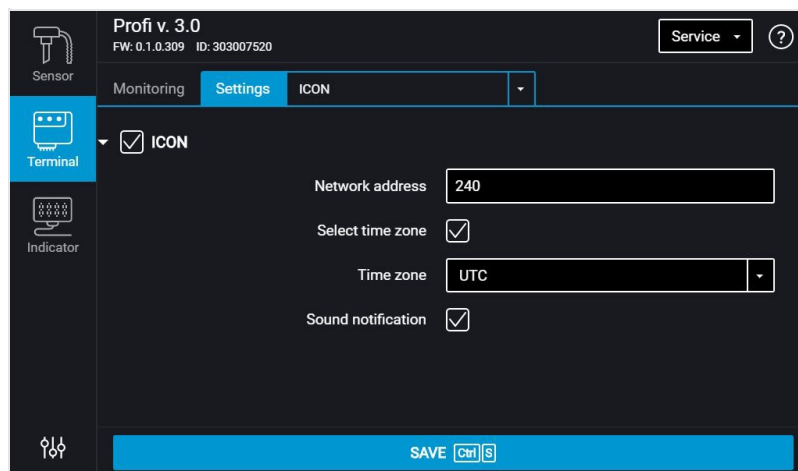
## Settings:

### Omnicom Terminal configuration

Run Omnicomm Configurator.

Select equipment – Terminal.

In the “Settings” tab select the “ICON” section from the list.



**“ICON”** – check the box to display the data from the terminal on the Omnicomm ICON display

- “Network address” – select the display network address. Possible values: from 7 to 254
- “Select the time zone” - check the box to select your time zone relative to UTC. The time zone value is used when an automatic registration of time zones is not required

“Time zone” – select the time zone

## Use Cases

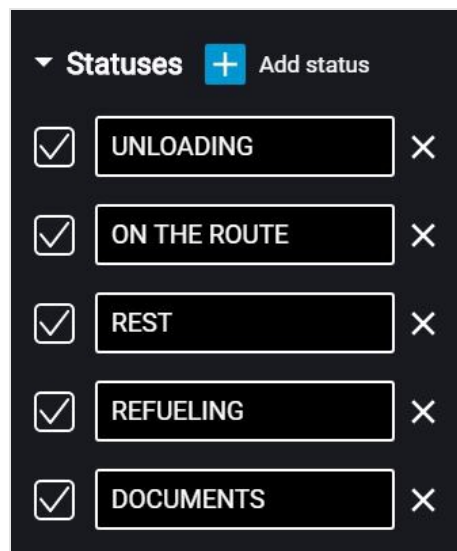
- “Notify about status changes via SMS” - check the box to send a notification to the dispatcher's number when the driver's status changes. The notification will contain the driver's new status.
- “Sound notification” - check the box to enable sound notifications when the terminal registers a new event, as specified during the terminal and display configuration.

### Omnicommm ICON display configuration

Run Omnicomm Configurator.

Select equipment – Indicator.

In the “Statuses” section:



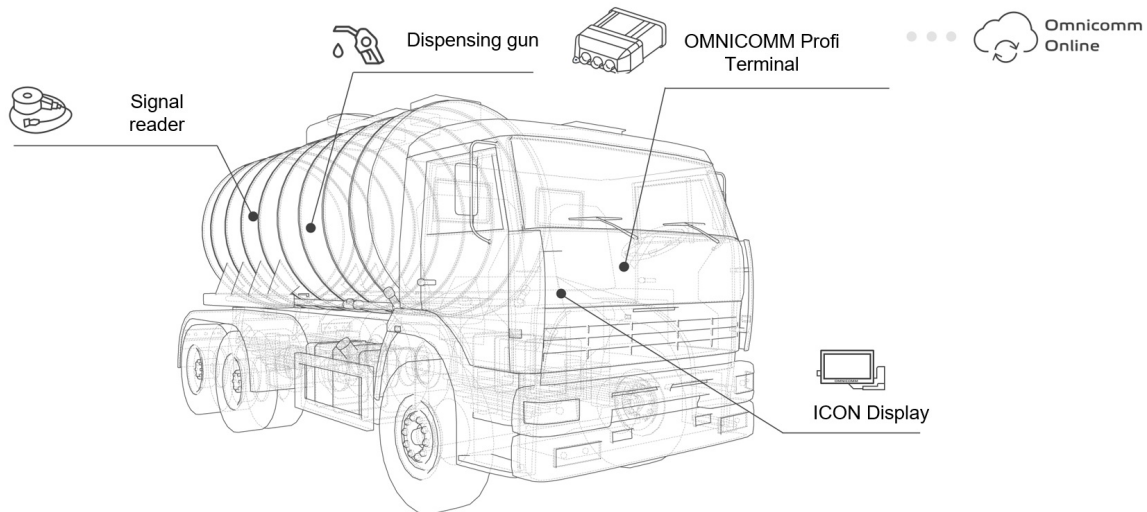
Press “Add status”.

Enter the status in words and press the “Write to device” button.

## Use Cases

### Monitoring dispensing operations in Omnicomm Online

In this case, we look at monitoring fuel dispensing by a fuel tanker using the report “Refueler Statement” in Omnicomm Online. Before refueling, the driver applies the RFID card to the ICON display. Omnicomm Online will register a fuel dispensing event linked to the driver or the vehicle.



#### Use:

- Open the browser and enter the address <http://online.omnicomm.ru>. Enter your login and password in the window that opens
- Select the vehicle or the driver
- Select the time period for report generation
- Press the “Add report” button and select “Refueler Statement”

## Use Cases

| Refueler Statement                                  |        |                     |                     |      |                  |                   |                    |                  |             |              |
|-----------------------------------------------------|--------|---------------------|---------------------|------|------------------|-------------------|--------------------|------------------|-------------|--------------|
| Total volume of dispensed fuel, l                   |        |                     |                     |      | 33943.07         |                   |                    |                  |             |              |
| Total amount of dispensing                          |        |                     |                     |      | 109              |                   |                    |                  |             |              |
| Volume of dispensings without refueling recipient   |        |                     |                     |      | 33943.07         |                   |                    |                  |             |              |
| Number of dispensings without a refueling recipient |        |                     |                     |      | 109              |                   |                    |                  |             |              |
| Loss volume, l                                      |        |                     |                     |      | 0.00             |                   |                    |                  |             |              |
|                                                     | Source | Start of dispensing | End of dispensing   | RFID | Card assigned to | Recipient of r... | Start of refueling | End of refueling | Driver name | Refueling vc |
| 1                                                   |        | 18.08.2019 01:03:32 | 18.08.2019 01:05:17 | -    |                  | -                 | -                  | -                | -           | -            |
| 2                                                   |        | 18.08.2019 01:10:47 | 18.08.2019 01:14:15 | -    |                  | -                 | -                  | -                | -           | -            |
| 3                                                   |        | 18.08.2019 01:18:30 | 18.08.2019 01:20:15 | -    |                  | -                 | -                  | -                | -           | -            |
| 4                                                   |        | 18.08.2019 01:23:00 | 18.08.2019 01:23:45 | -    |                  | -                 | -                  | -                | -           | -            |
| 5                                                   |        | 18.08.2019 01:27:30 | 18.08.2019 01:30:00 | -    |                  | -                 | -                  | -                | -           | -            |
| 6                                                   |        | 18.08.2019 01:36:17 | 18.08.2019 01:38:32 | -    |                  | -                 | -                  | -                | -           | -            |
| 7                                                   |        | 18.08.2019 01:42:17 | 18.08.2019 01:43:32 | -    |                  | -                 | -                  | -                | -           | -            |
| 8                                                   |        | 18.08.2019 03:19:02 | 18.08.2019 03:23:32 | -    |                  | -                 | -                  | -                | -           | -            |
| 9                                                   |        | 18.08.2019 03:28:17 | 18.08.2019 03:33:17 | -    |                  | -                 | -                  | -                | -           | -            |
| 10                                                  |        | 18.08.2019 06:19:02 | 18.08.2019 06:23:02 | -    |                  | -                 | -                  | -                | -           | -            |
| 11                                                  |        | 18.08.2019 06:25:32 | 18.08.2019 06:28:47 | -    |                  | -                 | -                  | -                | -           | -            |
| 12                                                  |        | 18.08.2019 06:31:17 | 18.08.2019 06:34:47 | -    |                  | -                 | -                  | -                | -           | -            |
| 13                                                  |        | 18.08.2019 06:39:47 | 18.08.2019 06:42:47 | -    |                  | -                 | -                  | -                | -           | -            |
| 14                                                  |        | 18.08.2019 06:45:17 | 18.08.2019 06:48:47 | -    |                  | -                 | -                  | -                | -           | -            |

The report contains the following information:

- Dispensing source - name of the fuel tanker
- Start of dispensing - date and time of the start of the fuel dispensing operation
- End of dispensing - date and time of the end of the fuel dispensing operation
- RFID – the number of the RFID card applied at the fuel tanker:
  - no earlier than 60 seconds before the start of fuel dispensing
  - within the allowed interval of time for fuel dispensing set in the vehicle profile (see [Administration Guide. Omnicomm Online](#))
  - before the RFID card is removed
- Card assigned - full name of the key holder
- Receiver - name of the vehicle that is being refilled
- Refueling start - date and time of the start of refueling
- Refueling end - date and time of the end of refueling
- Match type - the method used to match the source of dispensing and the refueled vehicle. Possible options: coordinates and time, iButton key, RFID card, fuel card, document.

## Use Cases

- Driver's name - full name of the driver of the refueled vehicle. The driver's name is displayed depending on the type of match:

iButton key, RFID card - full name of the key or card holder

coordinates and time - full name of the driver registered on the refueled vehicle

- Refueling volume - the volume of the fuel filled in the vehicle
- Dispensing volume - the volume of the fuel dispensed by the fuel tanker
- Deviation, l - the difference between the refilled volume and the dispensed volume in liters
- Deviation, % - the difference between the refilled volume and the dispensed volume in percentage
- Refueling source address - the address at which the start of fuel dispensing was recorded
- Refueling receiver address - the address at which the start of vehicle refueling was recorded
- Source group - a group of vehicles to which the fuel tanker belongs
- Receiver group - a group of vehicles to which the refueled vehicle belongs

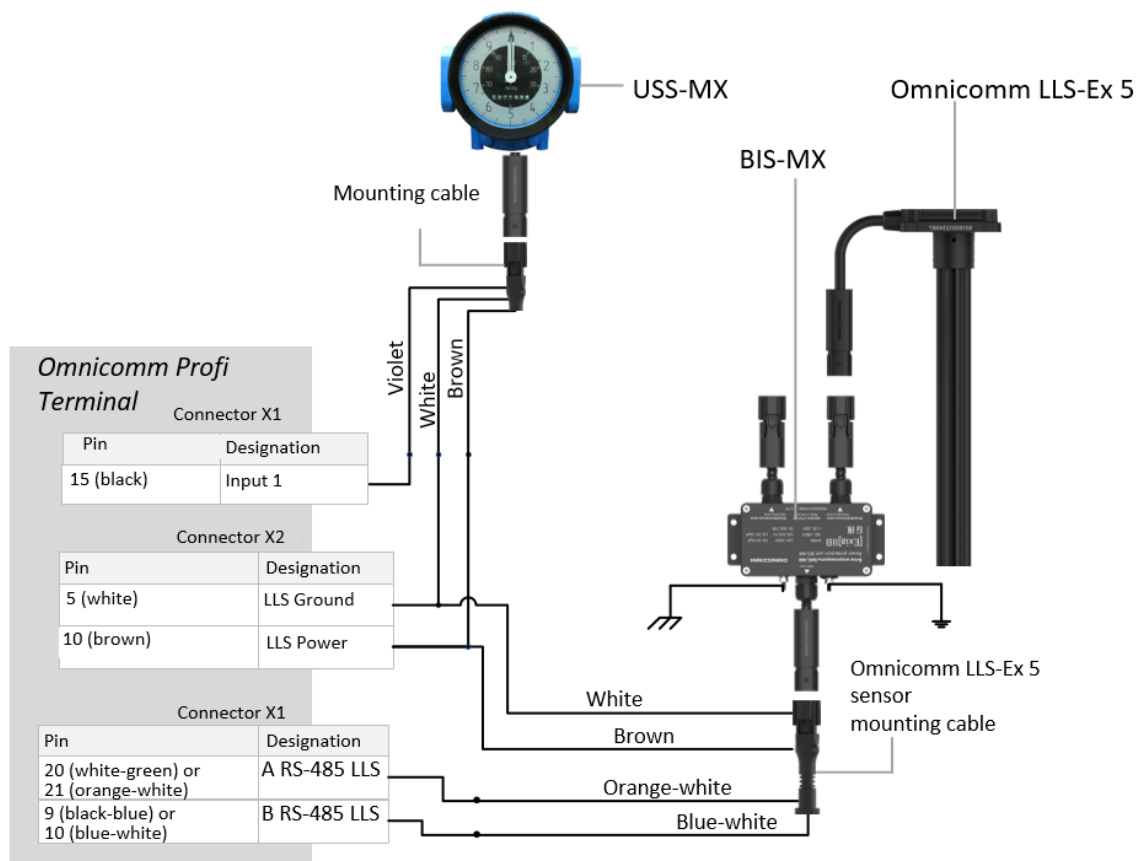
The data on the refueled vehicle (receiver) will be displayed only if the driver, who applied the RFID card, is registered on the vehicle (receiver). Driver registration can be done in Omnicomm Online or using the Omnicomm ICON display installed on the vehicle (receiver).

### Equipment:

- Omnicomm Profi terminal
- Omnicomm LLS-Ex 5 Fuel level sensors
- BIS-MX Spark protection unit
- Omnicomm ICON Display
- Omnicomm Online

### Connection:

## Use Cases



### Settings:

The configuration of the Omnicomm LLS-Ex 5 fuel level sensor is performed according to the sensor's user manual.

The BIS-MX spark protection unit does not require configuration.

#### Omnicomm Profi terminal configuration

The terminal is configured similarly to the procedure for [Monitoring the fuel tanker dispensing operations](#).

#### Settings in Omnicomm Online

Log in to Omnicomm Online.

In the "Administration" section, open the "Vehicles" tab. A window will open:

## Use Cases

Vehicles

Find a vehicle...

VH profile

Militant VH Profile

Data recalculation

Disable the data reception

Group management

Export the vehicle

Log of vehicles usage

Terminal replacement

Setting up the displaying

Add virtual vehicle

Export VH list

Enable advanced mode

Groups: All

Status: All

|    | <input type="checkbox"/> | Name | Terminal | ID | Factory No. | Phone | Groups | Raw data            | New data at the C | The latest processed data           | Comment | Date of VH profile creation |
|----|--------------------------|------|----------|----|-------------|-------|--------|---------------------|-------------------|-------------------------------------|---------|-----------------------------|
| 1  | <input type="checkbox"/> |      |          |    |             |       |        |                     | No                |                                     |         | 11.09.2015 18:48:17         |
| 2  | <input type="checkbox"/> |      |          |    |             |       |        |                     | No                | 09.02.2018 11:27:37                 |         | 07.02.2018 13:16:38         |
| 3  | <input type="checkbox"/> |      |          |    |             |       |        | 21.04.2019 13:10:52 | No                | 21.04.2019 13:10:52 Ready           |         | 11.03.2019 23:35:27         |
| 4  | <input type="checkbox"/> |      |          |    |             |       |        | 11.09.2019 23:13:24 | No                | 11.09.2019 23:13:24 Ready           |         | 23.06.2016 22:11:54         |
| 5  | <input type="checkbox"/> |      |          |    |             |       |        | 08.06.2019 03:06:55 | No                | 08.06.2019 03:06:55 Ready           |         | 23.06.2016 22:11:57         |
| 6  | <input type="checkbox"/> |      |          |    |             |       |        | 18.09.2018 15:41:06 | No                | 18.09.2018 15:41:06 Ready           |         | 23.06.2016 22:11:53         |
| 7  | <input type="checkbox"/> |      |          |    |             |       |        | 26.05.2019 15:48:13 | No                | 26.05.2019 15:48:13 Ready           |         | 23.06.2016 22:11:57         |
| 8  | <input type="checkbox"/> |      |          |    |             |       |        | 22.03.2019 15:39:24 | No                | 22.03.2019 15:39:24 Ready           |         | 23.06.2016 22:11:55         |
| 9  | <input type="checkbox"/> |      |          |    |             |       |        | 20.08.2018 13:37:57 | No                | 20.08.2018 13:37:57 Ready           |         | 23.06.2016 22:11:55         |
| 10 | <input type="checkbox"/> |      |          |    |             |       |        | 25.03.2019 10:06:44 | No                | 25.03.2019 10:06:44 Ready           |         | 23.06.2016 22:11:56         |
| 11 | <input type="checkbox"/> |      |          |    |             |       |        | 21.03.2019 20:19:29 | No                | 21.03.2019 20:19:29 Ready           |         | 23.06.2016 22:11:55         |
| 12 | <input type="checkbox"/> |      |          |    |             |       |        | 09.05.2019 05:06:50 | No                | 09.05.2019 05:06:50 Ready           |         | 23.06.2016 22:11:53         |
| 13 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 15:57:39 | Yes               | 25.09.2019 15:57:09 Recalculation 9 |         | 23.06.2016 22:11:56         |
| 14 | <input type="checkbox"/> |      |          |    |             |       |        | 28.05.2019 16:56:18 | No                | 28.05.2019 16:56:18 Ready           |         | 23.06.2016 22:11:53         |
| 15 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 15:56:45 | Yes               | 25.09.2019 15:56:45 Ready           |         | 23.06.2016 22:11:56         |
| 16 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 15:57:29 | Yes               | 25.09.2019 15:56:59 Recalculation 9 |         | 23.06.2016 22:11:52         |
| 17 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 12:56:36 | Yes               | 25.09.2019 12:56:36 Ready           |         | 16.09.2017 10:55:10         |
| 18 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 15:57:28 | Yes               | 25.09.2019 15:56:58 Recalculation 9 |         | 23.06.2016 22:11:55         |
| 19 | <input type="checkbox"/> |      |          |    |             |       |        | 25.09.2019 15:57:19 | No                | 25.09.2019 15:57:19 Ready           |         | 23.06.2016 22:11:55         |

01/13

<< >>

100

Select "Fuel tanker" from the list and click the "Vehicle profile" button.

In the "Driver sign in on a vehicle" section:

^ Driver Assignment for the Vehicle

Driver Registration by Touching the Key
☒

"Driver sign in by tag reading" - uncheck the box to disable driver registration when an RFID card is applied at the fuel tanker.

**OMNICOMM**

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[www.omnicomm-world.com](http://www.omnicomm-world.com)