

Alcohol Sensor

1 Introduction

1.1 About the Functionality

The alcohol sensor allows users to test alcohol concentration in the driver's blood, receive this data to the server, and ensure driving safety.

This feature description applies to tracking devices with the latest firmware version.

You can get the newest firmware and configurator from our documentation website: doc.ruptela.it

1.2 Legal Information

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1.3 Compatibility

The alcohol sensor is compatible with the following devices with the newest firmware version:

- HCV5
- LCV5
- Pro5
- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4
- FM-Eco4 RS T

1.4 Contact Information

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1.5 Document Changelog

Version	Date	Modification
2.0	2020-07-16	Updated: Connection schematics. Updated: Compatible devices list. Updated: Manual design and construction.
2.1	2020-08-05	Updated: Connection schematics. Updated: Compatible devices list.

1.6 Notations

The following notations are used in this document to highlight important information:

Bold text

Used to indicate user interface elements or for emphasis.

Italic text

Used to indicate items that belong to a list and can be selected.

Note

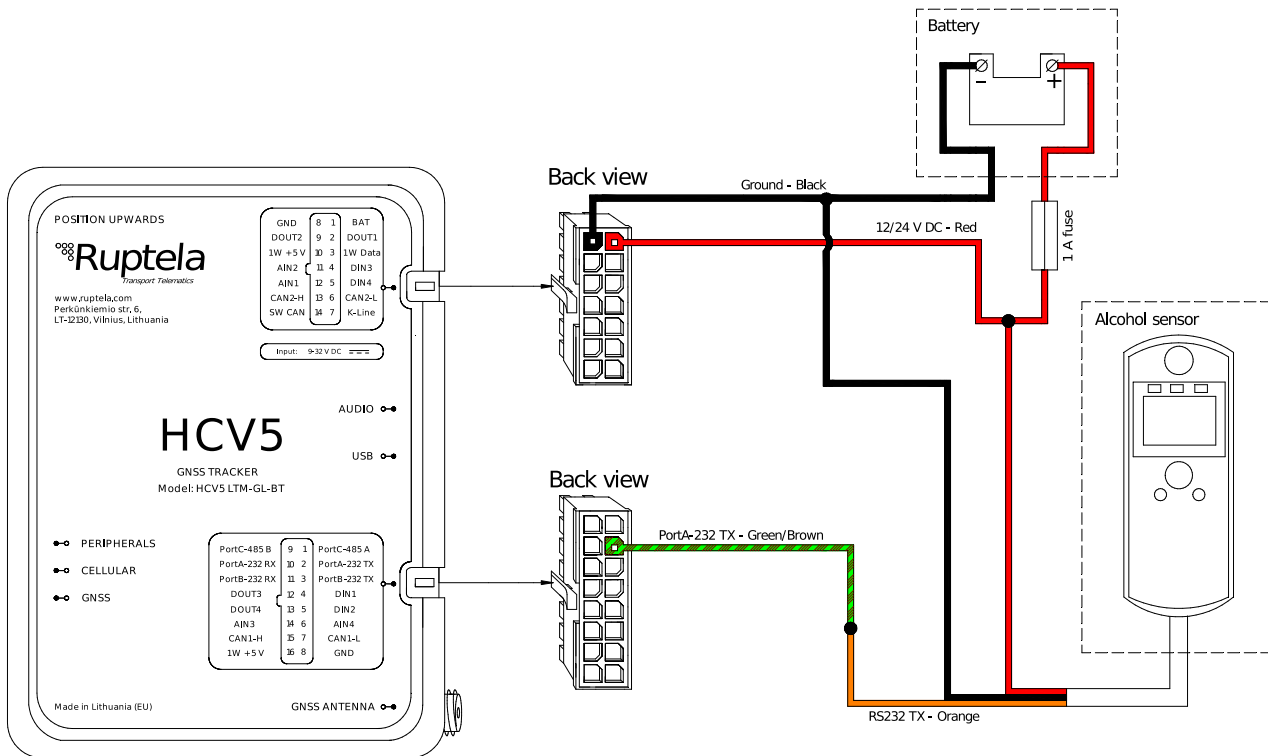


Used to highlight important information or special conditions.

2 Connection

2.1 Connection to 5th Gen Advanced Family Devices

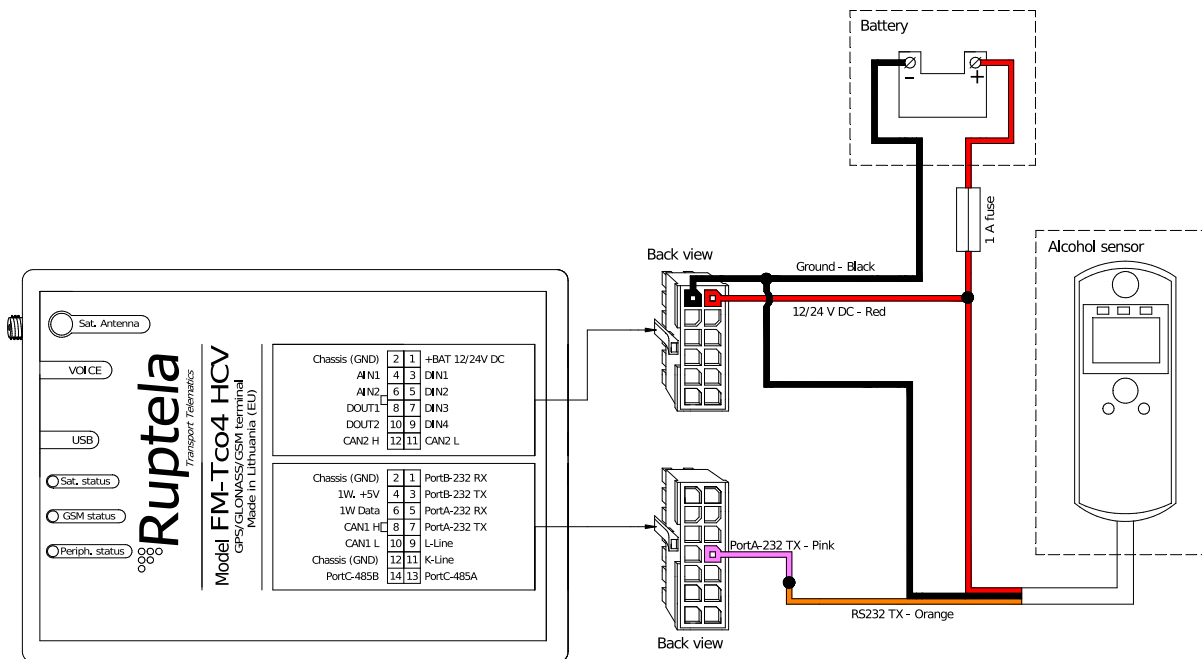
Connect the alcohol sensor to your tracking device as follows (Port A is used in this schematic):



Alternatively, RS232 TX wire can be connected to Port B (16 pin connector, pin 3, pink/green wire).

2.2 Connection to 4th Gen Advanced Family devices

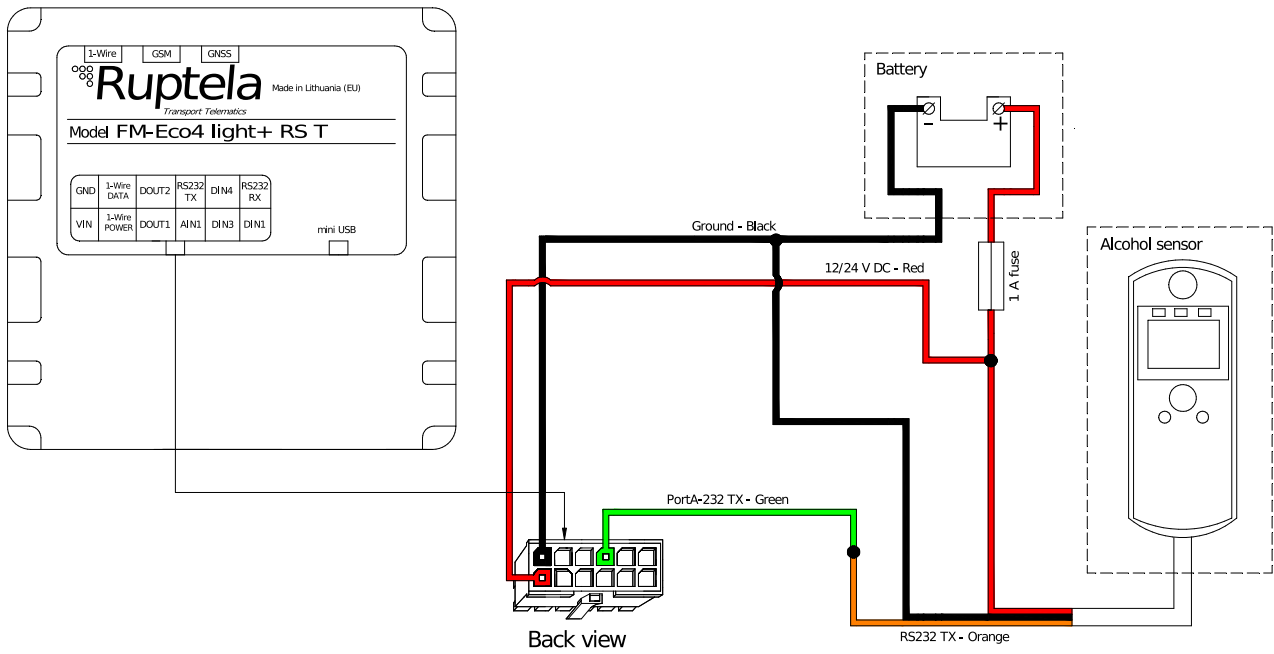
Connect the alcohol sensor to your tracking device as follows (Port A is used in this schematic):



Alternatively, RS232 TX wire can be connected to Port B (14 pin connector, pin 3, orange wire).

2.3 Connection to FM-Eco4 RS T device

Connect the alcohol sensor to your tracking device as follows:



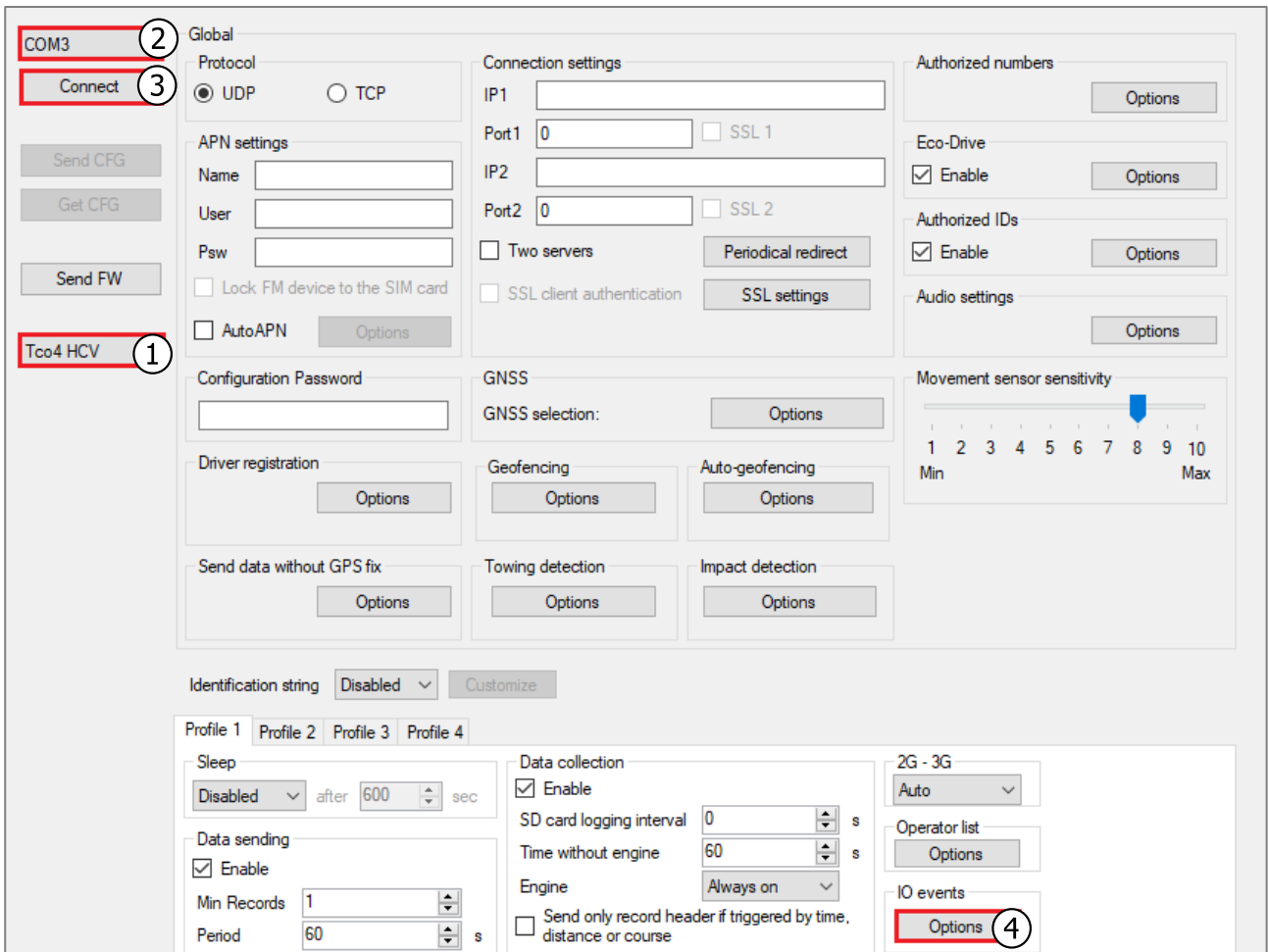
3 Configuration

i This functionality requires the use of the advanced configurator.

3.1 Starting the Configuration

To start the configuration, follow these steps:

1. Open the advanced configurator. Select your tracking device.
2. Select the COM port to which your device is connected.
3. Click **Connect**.
4. Click the **Options** button in the **IO events** section to open the **IO Settings** window.



3.2 Configuring the Alcohol Sensor

Follow these steps to configure the alcohol sensor:

1. Tick the **Send I/O data with v1.1 protocol** checkbox (not applicable for the 5th gen Advanced family devices).
2. Select an empty parameter slot.
3. Enable the slot by ticking **Enable**.
4. In the **ID** section select *Alcohol Sensor state* from the drop-down list.
5. Set **Event on** to *Monitoring*.
6. Repeat steps 2-3 and in the **ID** section select *Alcohol Sensor test value*. Repeat step 5.
7. In the **Interfaces** section select the port, to which the alcohol sensor is connected (*PortA* or *PortB*).
8. Select *Alcohol Sensor* from the drop-down list.

The screenshot shows the 'IO settings' window with several configuration options highlighted by red boxes and numbered 1 through 8:

- 1:** Protocol selection: Send I/O data with v1.1 protocol
- 2:** Parameter slot: Alcohol Sensor state
- 3:** ID: Alcohol Sensor state
- 4:** Enable: Enable
- 5:** Event on: Monitoring
- 7:** Interfaces: PortA
- 8:** Alcohol Sensor

Other visible settings include Level, Delta, Average (all set to 0 ms), Priority (Low), Switch to (No Switch), and Digital outputs (DOUT1 and DOUT2 set to Disabled).

3.3 Finishing the Configuration

To finish the configuration, close the **IO settings** windows. Click **Send CFG** to send the configuration to the device.

