

LED Display

1 Introduction

1.1 About the Functionality

The LED display allows the user to see the vehicle's current speed on additional screen.

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.

Caution

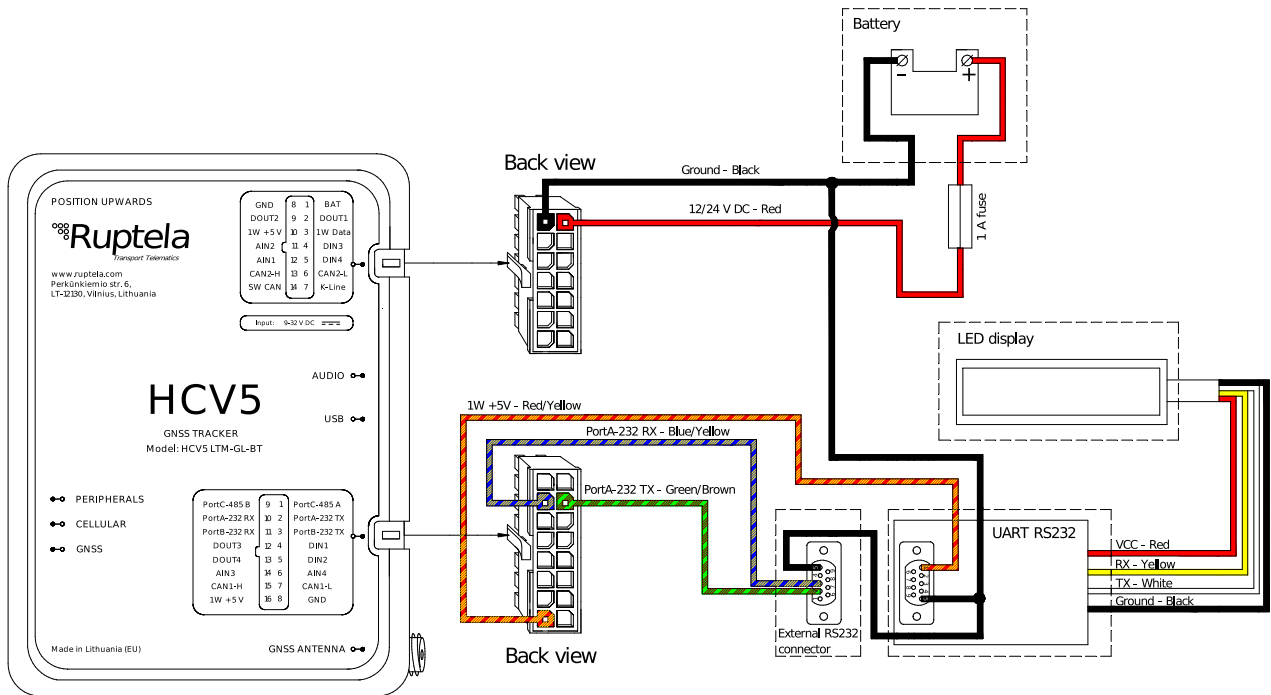


Used to mark actions that require caution when handling the product.

2 Connection

2.1 Connection to 5th Gen Advanced Family Devices

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



The 1-Wire power has to be connected straight to the RS232 connector, otherwise, the connection may cause various issues, as power transfer via the RS232 connection is not supported.



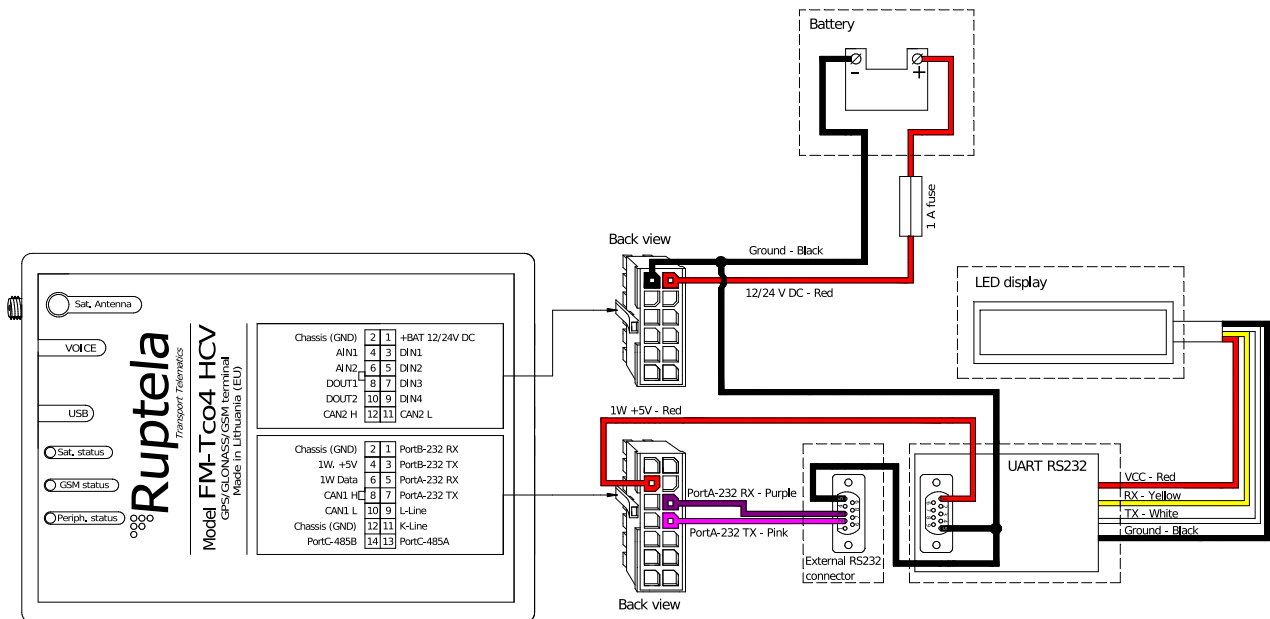
The power connection from the tracking device is optional. Power can be connected from an external source, but must not exceed +5 VDC.



Alternatively, TX and RX wires can be connected to Port B (16 pin connector, pin 3 and 11, pink/green wire, red/cyan wires).

2.2 Connection to 4th Gen Advanced Family devices

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



The 1-Wire power has to be connected straight to the RS232 connector, otherwise, the connection may cause various issues, as power transfer via the RS232 connection is not supported.



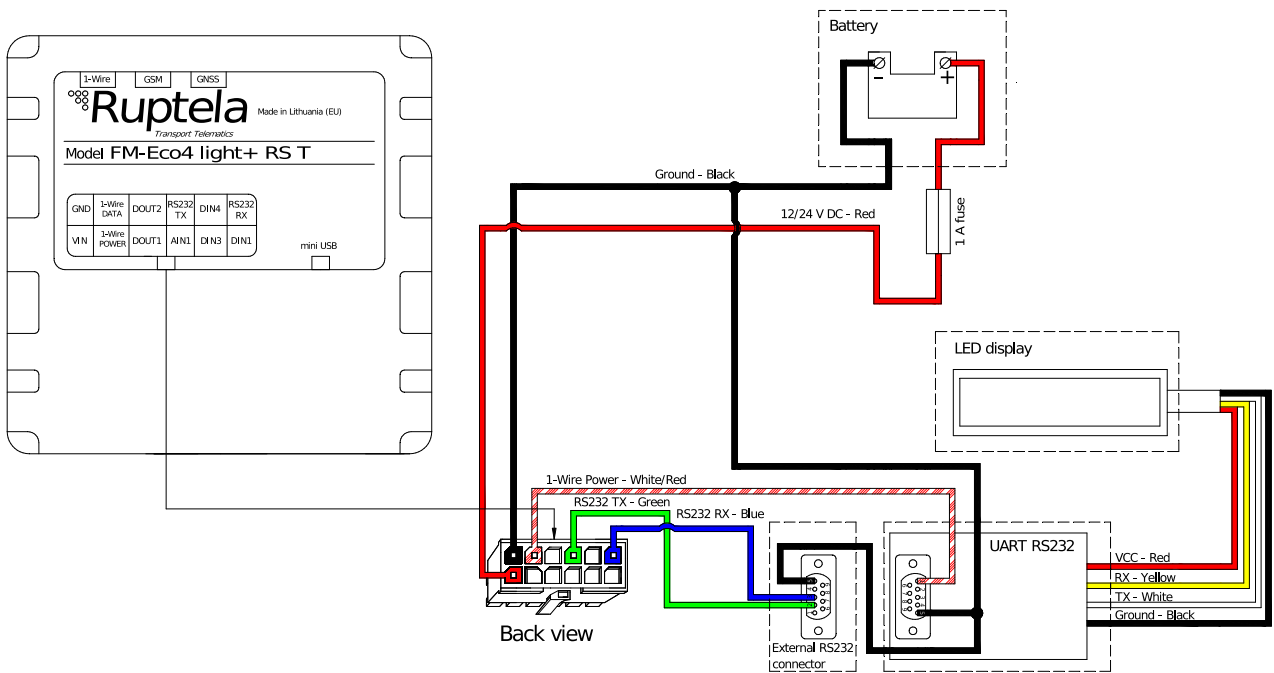
The power connection from the tracking device is optional. Power can be connected from an external source, but must not exceed +5 VDC.



Alternatively, TX and RX wires can be connected to Port B (14 pin connector, pin 3 and 1, orange and yellow wires).

2.3 Connection to FM-Eco4 RS T devices

Connect the LED display to your tracking device as follows:



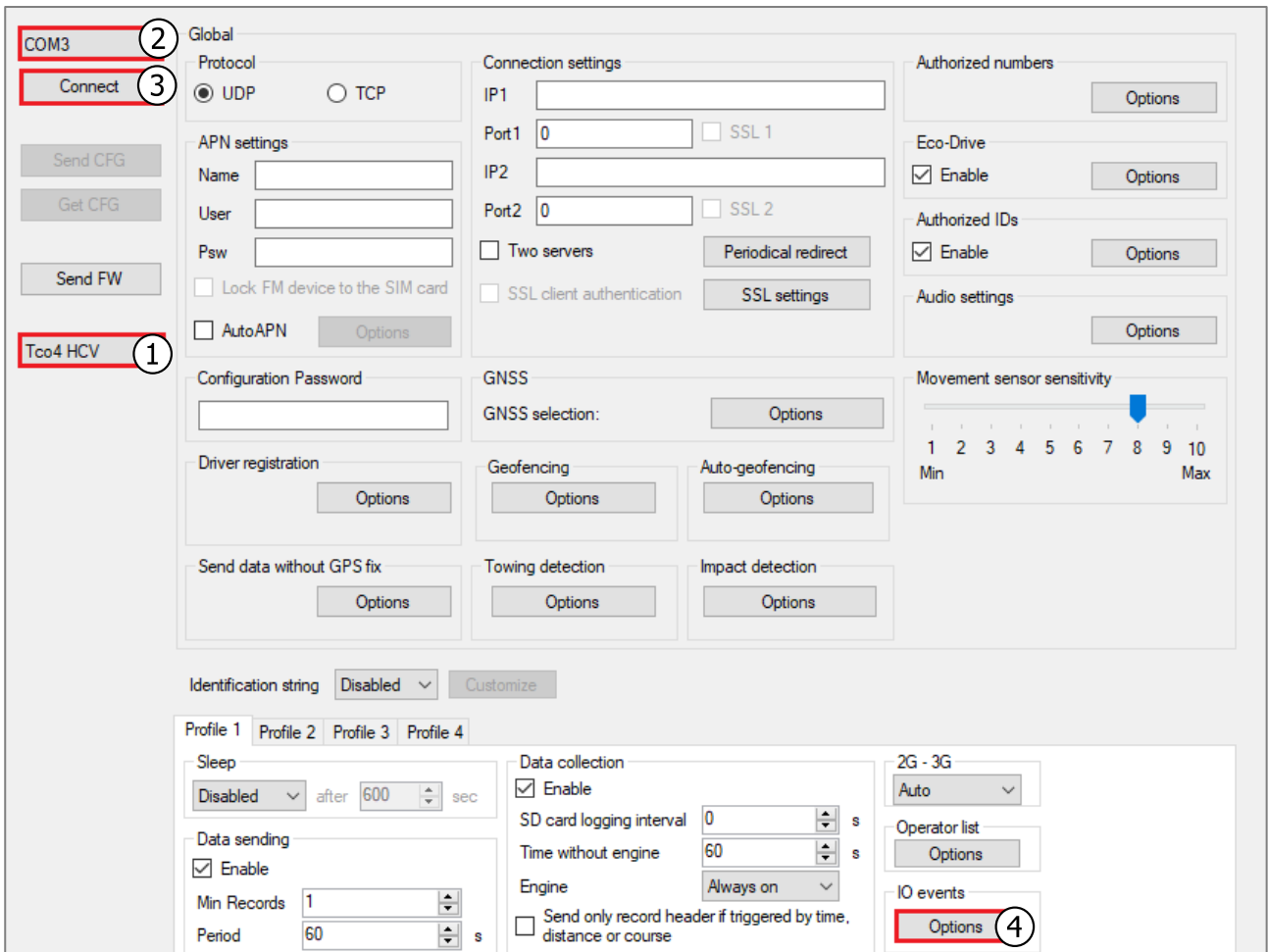
3 Configuration

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 LED Display

Follow these steps to configure the LED display:

1. In the **Interfaces** section select the port, to which the LED display is connected (*PortA* or *PortB*).
2. Select *LED display* from the drop-down list.
3. Click the **Config** button to open the LED display configuration.
4. Select one of the **Speed source** options:

Automatic

The system automatically selects one of the best sources available. If the source is not available anymore, another will be selected, until the best source is available again. Sources are selected by the following priority: CAN, OBD, GNSS.

GNSS

Provides speed information from the GPS.

CAN

Provides speed information from the configured CAN interface. Available only if a CAN interface was configured.

OBD

Provides speed information from the OBD. Available only if OBD was configured on a K-Line or CAN interface.



LED display will show the current speed even if the device goes to sleep mode. In cases when the vehicles ignition is turned off, but the vehicle is moving (towed, etc.), the LED display will show the current speed.

The screenshot shows the 'IO settings' window. In the 'Interfaces' section, 'PortA' is checked and highlighted with a red box and a circled '1'. A dropdown menu next to it shows 'LED display' selected, also highlighted with a red box and a circled '2'. A 'Config' button next to the dropdown is highlighted with a red box and a circled '3'. A smaller 'LED display configuration' window is open, showing the 'Speed source' dropdown with 'Automatic' selected, highlighted with a red box and a circled '4'. Other settings like 'Protocol selection', 'Smart CAN IO Selection', and 'IO properties' are visible in the background.

3.3 Finishing the Configuration

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

