

Ultrasonic fuel level sensor connection

Introduction

Sensor is primarily used to measure level of LPG (propane-butane) in reservoirs, including LPG fuel in the tanks of vehicles. The sensor is fastened to the bottom of the tank and does not have direct contact with the fuel. The device also can be used to measure the level of any other fluids, like liquid fuels or water.

Sensor is compatible and can be connected to these Ruptela FM devices:

- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4

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

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Document change log

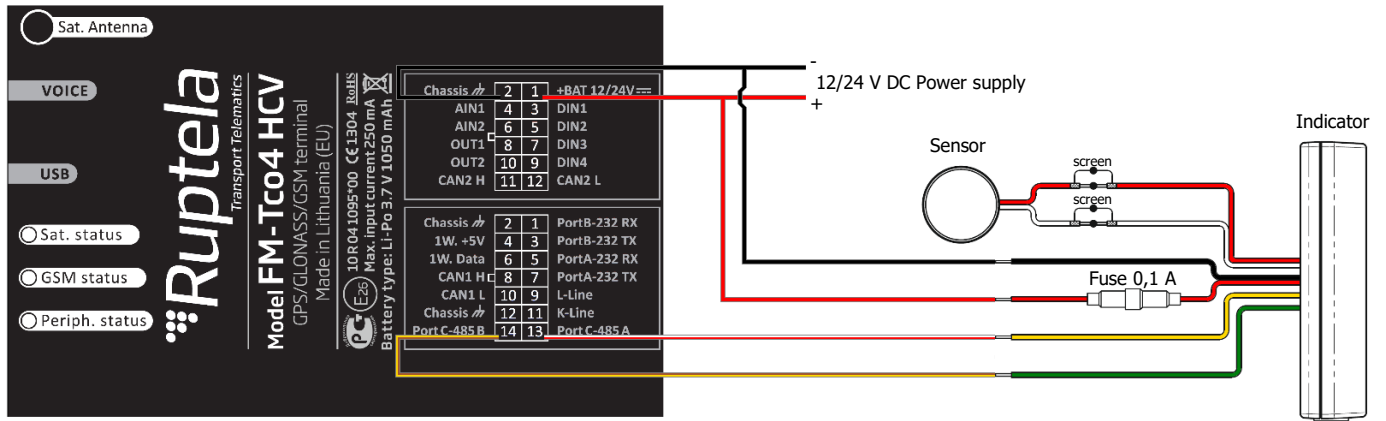
Date	Version	Change details
2017-04-13	1.0	Initial draft.
2018-11-15	1.1	Compatible device list updated.

Connection to the FM device

Ultrasonic fuel level sensor should be first connected to its transducer. Then transducer can be connected to the FM device as shown in the picture below.

Note

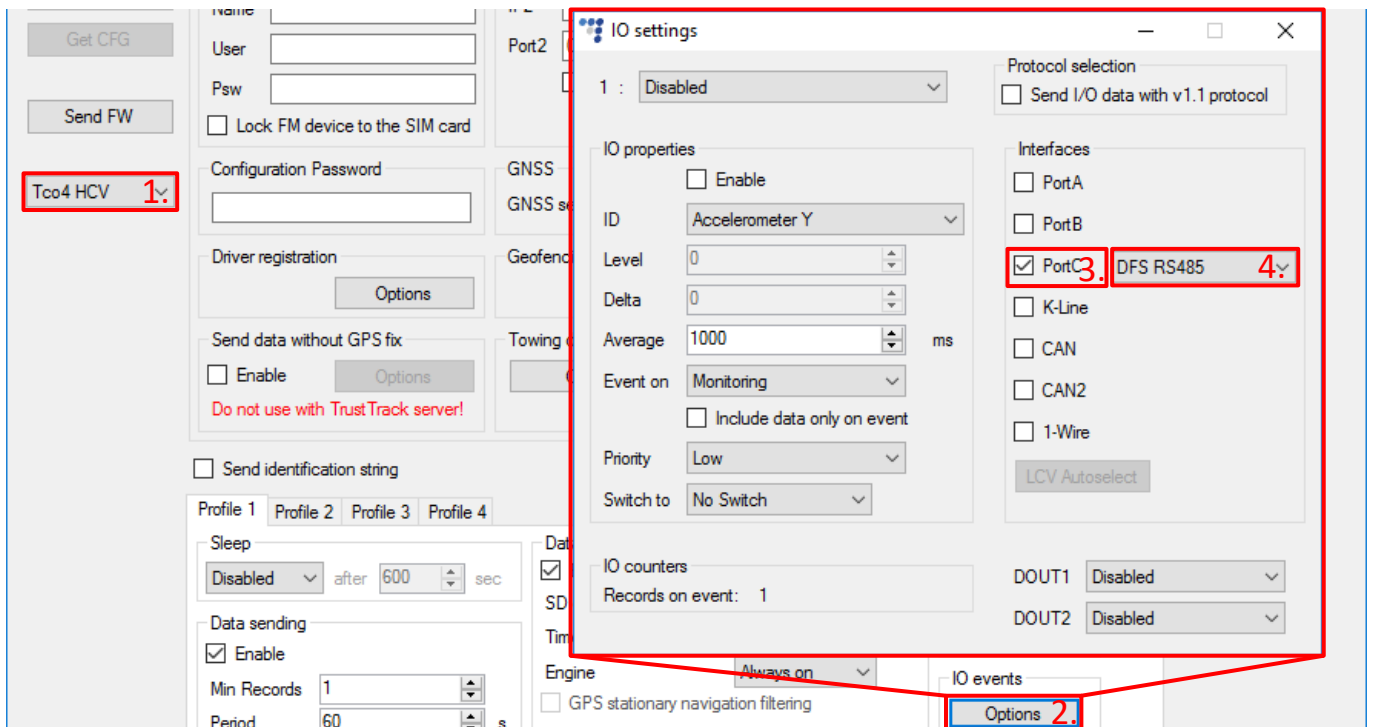
Instruction regarding sensor internal configuration and its installation on a fuel tank can be obtained from the "Radio Communications Systems" Technical Support.



FM device configuration

FM device should be configured as follows:

1. In the main configurator's window choose your device (*FM-Tco4 LCV, FM-Tco4 HCV, FM-Pro4*).
2. In the **IO events** section click on the **Options** button. It opens up a new **IO settings** window, here you can enable or disable IO parameters.
3. In **Interfaces** section choose **PortC**.
4. In the drop-down list on the right choose *DFS RS485*.



5. Now let's move to the IO parameters configuration. Select a slot that you want to enable.
6. Tick the **Enable** checkbox, otherwise the slot will remain empty.
7. **ID** contains the parameters list. For ultrasonic fuel level sensor choose *Digital Fuel Sensor C1* and *Digital Fuel Sensor C1 temperature* IO parameters.

Close the **IO settings** window and send configuration to the device.

