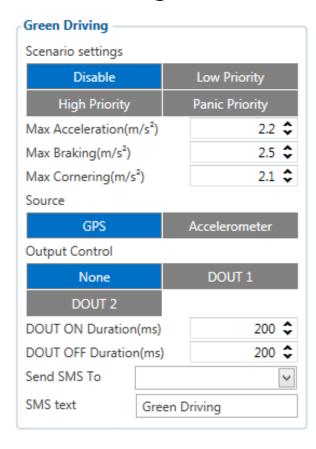
Template:FMB964 Features settings

Contents

- 1 Green Driving
 - 1.1 Data output
 - 1.2 Auto calibration
- 2 Over Speeding
- 3 Jamming
- 4 GNSS Fuel Counter
- 5 DOUT controls

Green Driving



When vehicle parameters exceed the values of *Max Acceleration, Max Braking* or *Max Cornering* parameters, the scenario is activated: a record is generated and digital output status is changed to 1 when configured. You can configure all three parameters in m/s² units. Scenario is activated until current Acceleration, Braking or Cornering value decreases below the set parameter value. Parameters used with *Green Driving* functionality are given in a table below.

Parameter name	Description
Scenario Settings	Enable/Disable Green driving functionality.

Max Acceleration Value which can be reached while accelerating without triggering harsh

acceleration event.

Max Braking Value which can be reached while braking without triggering harsh

Acceleration braking event.

Max Cornering Value which can be reached while cornering without triggering harsh

Acceleration cornering event.

Source Which source (GPS or accelerometer) data will be collected from.

Data output

Data from accelerometer/GPS are continiously monitored and processed and are used to decide whether a harsh event has occured. If either of three cases is satisfied, an event is generated and a record is saved and sent to the server (FMB1YX must be properly configured in order to send the record). Event value is multiplied by 10 before sending/saving record to get more precision when displaying data.

Digital output 1 or digital output 2 can be activated for a period of time to warn the driver. Output on-time is configured separately for each feature case.

Auto calibration

The auto-calibration process is following:

- 1. The vehicle is stopped.
- 2. There is a straight road ahead.
- 3. Send SMS "auto calibrate:set" to the FMB device.
- 4. Accelerate to >30 km/h for 5 sec.
- 5. FMB will send a response when calibration is completed successfully.

Calibration is saved to internal flash memory, which means it will stay after a reset. To check auto-calibration status send a following short text message to the FMB device: "auto calibrate:get".

Over Speeding



When vehicle speed exceeds configured maximum speed value the scenario is activated, an event record is generated and digital output status is changed to 1 when configured. Scenario is active until detected speed decreases below the set parameter value.

Jamming



When jamming is detected the scenario is activated, an event record is generated and digital output status is changed to 1 when configured once <code>Jamming</code> timeout runs out. If jamming ends during timeout countdown no event will be generated and output will not be controlled. <code>Eventual Records</code> parameter can be configured: when it is disabled scenario status value will appear in each AVL record, otherwise it will be appended only to eventual records.

GNSS Fuel Counter



- 1. To configure *Fuel Counter* parameters use fuel consumption norms which are presented in technical documentation of the vehicle. By default speeds for these fuel consumption norms are: City 30 km/h, Average 60 km/h, Highway 90 km/h. These values can be changed.
- 2. When speed is higher than the highway fuel consumption speed, x% of highway fuel consumption is added every extra y km/h, by default FMB1YX adds 20% every 50 km/h of extra speed. For example, the fuel consumption is (1.2 * (Highway Fuel Consumption)) at 140 km/h and (1.4 * (Highway Fuel Consumption)) at 190 km/h.
- 3. *Correction coefficient* is used to correct every value of fuel consumption which is sent to the server through an expression of ((Used Fuel) * *Correction coefficient*). By default it is 1, with minimum and maximum values of accordingly 0.01 and 2. For example, when correction coefficient is 1 and FMB1YX calculates that the amount of used fuel over 35 m distance is 20 ml, the value of 20 ml will be sent to the server, and if correction coefficient is 1.2, the value of 20 * 1.2 = 24 ml will be sent to the server.
- 4. Fuel Consumption on Idling is used to calculate fuel consumption when ignition is on, but the vehicle is stationary. The consumption value is 1 l/h by default, with minimum and maximum of accordingly 0 and 5 l/h. This parameter is less than 1.0 l/h for almost all diesel cars and is equal to about 1.5 2.0 l/h for gasoline cars.

DOUT controls

Please refer to **DOUT** controls.