FM11YX with Green driving functionality

These instructions are used to help a customer understand how Green Driving feature works, and how to configure it in FM11YX device.

Functionality description.

This functionality is based on GPS position. Helps to prevent and inspect driver about harsh driving. Scenario continuously monitors: accelerating force, braking force and cornering angles. Warns driver if needed. DOUT1 is controlled by scenario for user needs, for example buzzer or LED.

To save GPRS traffic Green driving event will be generated (included into sent records) only when FM11YX measured values are higher than those set in configuration , without additional I/O settings.

To prevent generating false events, harsh acceleration and harsh braking is monitored only when following conditions are fulfilled:

- Ignition is ON (Configured Ignition Source – Power Voltage, Digital Input 1 or Movement);
- Vehicle speed is equal or higher than 10km/h.

Harsh cornering is monitored only when following conditions are fulfilled:

- Ignition is ON (Configured Ignition Source – Power Voltage, Digital Input 1 or Movement);
- Vehicle speed is equal or higher than 30km/h.

Green driving scenario configuration.

Enable Green driving scenario and set the harsh driving parameters (Example in Figure 1).
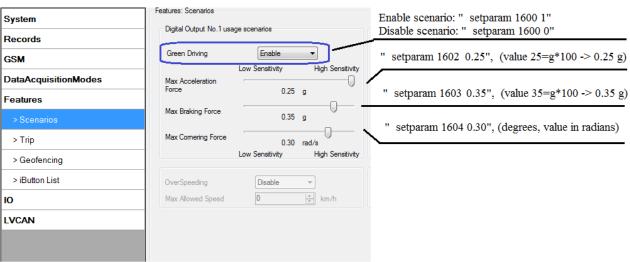

Figure 1. Green driving scenario configuration

Green driving SMS event configuration.

When Green driving event is triggered, FM11YX sends a configured SMS message to a defined phone number.

Green driving I/O element SMS event configuration (ID=137):
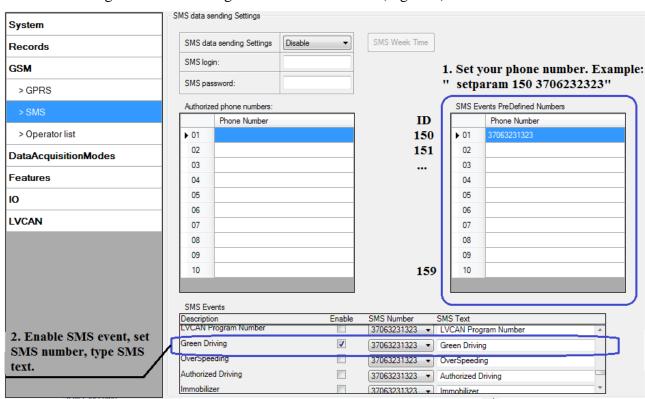
SMS Format: setparam X Y,W,Z

X – ID

Y – Enable/Disable (1/0)

W – Telephone number INDEX (ID 150 – INDEX 0; ID151 – INDEX 1, …)

Z – SMS Text

Green driving SMS event configuration is shown below(Figure 2).

Figure 2. Green driving SMS event configuration