Template:FM36YX Scenarios settings

In Scenarios window six different scenarios are available: Green driving, Over Speeding, Excessive Idling, Immobilizer, iButton List checking and Jamming. All scenarios can use DOUT together, but if DOUT1 is assigned to Immobilizer, other scenarios can't control it.

Digital Output (open drain grade) usage in scenarios:

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Green Driving

Helps to prevent and inspect driver about harsh driving. Scenario continuously monitors: accelerating force, braking force and cornering angles. Warns driver if needed. DOUT1 or DOUT2 is controlled by scenario for user needs, for example buzzer or LED.
To save 3G(in FM36M1 4G)/GPRS traffic Green Driving **event** will be **generated (included into sent records) only** when 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 (DIN1 = 1)
- Vehicle speed is equal or higher than 10km/h

Harsh cornering is monitored only when following conditions are fulfilled:

- Ignition is ON (DIN1 = 1)
- Vehicle speed is equal or higher than 30km/h

> Note: Green Driving Scenario is a factor on various cars and various drivers testing phase and can be subject to changes. Teltonika is constantly working on improvement of the functionality of the devices, and strongly recommends using the latest version of the firmware.

Digital output control:
DOUTX (selected digital output) is ON for:

- 3sec. if detected value is over (0; 30] % from preconfigured allowed value;
- 5sec. if detected value is over (30; 50] % from preconfigured allowed value;
- 7sec. if detected value is over (50; -] % from preconfigured allowed value.

After period of time DOUTX is turned OFF.

Over Speeding

Helps to prevent from exceeding fixed speed and inspects driver if needed. DOUT1 or DOUT2 is controlled by scenario for user needs, to manage buzzer, LED, etc.

Digital output control:
DOUTX (selected digital output) is ON, while vehicle speed exceeds parameter value. DOUTX is activated until current speed decreases below parameter value.

Excessive Idling Detection

Scenario informs you if your vehicle is stationary but engine is on for selected period of time to help you to save fuel.

If ignition is ON and no movement, event will be generated when TMO reached. User can enable this functionality, select timeouts for stationary time and for movement time.

Jamming detection

Radio jamming is the (usually deliberate) transmission of radio signals that disrupt communications by decreasing the signal to noise ratio. When jamming detection is enabled, FM36YX informs (with buzzer or LED, connected to digital output) driver about jamming event.

Digital output control:
DOUTX (selected digital output) is ON, while modem is fixing radio frequency jamming. After jamming is over, DOUTX is deactivated.

Authorized driving

Gives ability to use vehicle for 500 specific iButton owners (specified in iButton list). DOUT2 or DOUT1 is controlled by scenario for user needs, to manage buzzer, LED, etc.

Note: In order for Authorized driving to work properly, at least 1 iButton ID must be written to the iButton list.

Digital output control:
DOUTX (selected digital output) is continuously OFF. DOUTX turns ON if Ignition turns ON (configured Ignition Source=1). After authorizing iButton (iButton ID is read and it matches the ID from the iButton list), DOUT2 turns OFF. After successful authorization ignition can be turned OFF (configured Ignition Source =0) for no longer than 30 seconds, otherwise authorization must be repeated.

Immobilizer

Vehicle can be used only if iButton is connected. In this scenario iButton list is not used, connect any iButton to pass Immobilizer security. DOUT2 or DOUT1 is controlled by scenario for user needs, to

manage buzzer, LED, etc.

Digital output control:

DOUTX (selected digital output) is continuously OFF. DOUTX turns ON if Ignition turns ON (configured Ignition Source = 1). After iButton ID is read (any iButton is attached), DOUTX turns OFF. After iButton identification, ignition can be turned OFF (configured Ignition Source = 0) for no longer than 30 seconds, otherwise immobilizer must be repeated.

Ignition On Counter

Ignition On Counter calculates how long Ignition was turned ON. The scenario depends on the configured Ignition source. The scenario is enabled it will count Ignition ON (logic 1) time (in seconds). After ignition OFF and ON again Horometer value will continue counting (from the last value). After the device restart, **Ignition On Counter** value is not restarted.