

FM11YX Ignition status configuration instructions

1 Introduction

These instructions help customer to configure FM11YX for Ignition status monitoring and acquiring Ignition indication for Ignition dependent features.

Ignition status shows user when vehicle is in work mode. This parameter plays important role for many FM11YX features: Object motion detection settings; Trip; Sleep Modes; Green Driving; Immobilizer/Authorized Driving. These features are dependent on selected Ignition Source.

2 Selecting Ignition Source

On FM11YX configurator SYSTEM parameters user can select Ignition Source. This parameter sets ignition triggered functionalities to be triggered by:

- a) **Power Voltage** (if voltage is between High Voltage Level and Low Voltage Level, the ignition is considered to be turned on);

SYSTEM		
Ignition Settings		
Ignition Source	Power Voltage	setparam 1004 0
High Voltage Level	30000 mV	setparam 1005 30000 (Values Min: 0, Max: 30000 (mV))
Low Voltage Level	13000 mV	setparam 1006 13000 (Values Min: 0, Max: 30000 (mV))

Figure 1 Setting Ignition Source to 'Power Voltage' via configurator and SMS commands

- b) **Digital Input 1** (DIN1 ON – ignition on, DIN1 OFF – ignition off);

SYSTEM		
Ignition Settings		
Ignition Source	Digital Input 1	setparam 1004 1
High Voltage Level	30000 mV	
Low Voltage Level	13000 mV	

Figure 2 Setting Ignition Source to 'Digital Input 1' via configurator and SMS command

Note: Digital input 1 wire of FM11YX must be connected to vehicle Ignition wire:

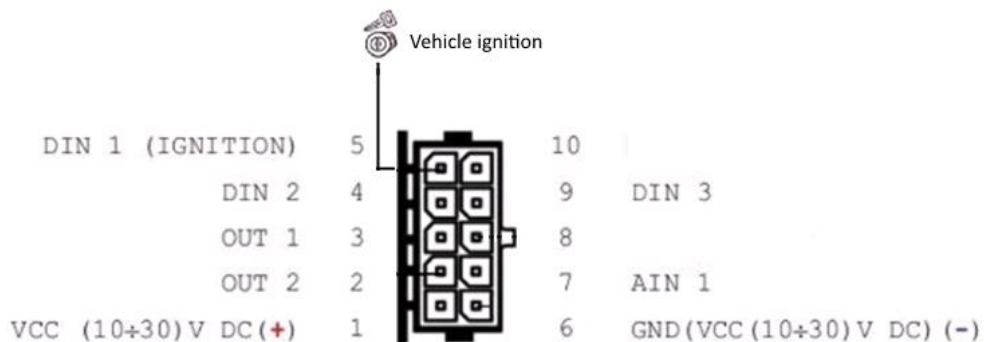


Figure 3 Connection Digital Input 1 to vehicle ignition wire

- c) **Movement** (if accelerometer/movement sensor detects movement then ignition is on, if movement stops – ignition is off).

SYSTEM		
Ignition Settings		
Ignition Source	Movement	setparam 1004 2
High Voltage Level	30000	mV
Low Voltage Level	13000	mV

Figure 4 Setting Ignition Source to 'Movement' via configurator and SMS command

3 Ignition Status I/O element configuration

In order to monitor Ignition Status (include Ignition status on periodical FM11YX records), Enable Ignition I/O element as shown on Figure 5.

System	I/O						
	Property Input	Enabled	Priority	Low Level	High Level	Generate Event	Averaging Constant
Records	Digital Output 1	<input type="checkbox"/>	Low	0	0	Monitoring	10
GSM	Digital Output 2	<input type="checkbox"/>	Low	0	0	Monitoring	10
DataAcquisitionModes	GPS PPS	<input type="checkbox"/>	Low	0	0	Monitoring	10
Features	Ignition	<input checked="" type="checkbox"/>	Low	0	0	Monitoring	10
IO	Battery Charging Current	<input type="checkbox"/>	Low	0	0	Monitoring	10
LVCAN							

setparam 1410 1

Figure 5 Ignition I/O configuration via configurator and SMS command