

FM3612 System settings

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System settings have 7 configurable parameters:

- Sleep settings, where user can turn GPS sleep/deep sleep on or off;
- Analog Input Settings, where user can choose analog input range 10 V or 30 V, depending on needed accuracy (lower range gives higher accuracy of measurements), and input voltage;
- Object Motion Detection Settings, where user can configure 3 ways how FM3612 will detect stopped movement, and change its working mode;
- Static navigation settings, where user can turn static navigation on or off;
- Records Settings, where user can enable or disable records when GPS is not available (no time synchronization);
- GNSS Settings, where user can choose satellite system and GNSS FIX Timeout Time (if after timeout there will not be synchronized time, it will be synchronized via NTP server);
- Ignition Source sets ignition triggered functionalities to be triggered by:
 - Power Voltage (if voltage is between High Voltage Level and Low Voltage Level the ignition is considered to be turned on);
 - Digital Input (DIN1 ON - ignition on, DIN1 OFF - ignition off);
 - Movement (if accelerometer/movement sensor detects movement then ignition is on, if movement stops - ignition is off).

Stop Detection Source	Vehicle on Stop mode	Vehicle Moving mode
Ignition (recommended)	If ignition (configured Ignition Source) is logic low	If ignition (configured Ignition Source) is logic high
Msensor (movement sensor)	Internal movement sensor does not detect movement	Internal movement sensor detects movement
GPS	GNSS fix is available and vehicle speed is lower than 5 km/h While GNSS fix is unavailable, Object Motion Detection Settings are working like in Msensor mode	GNSS fix is available and vehicle speed is higher than 5 km/h

Static Navigation Mode is a filter, which filters out track jumps when the object is stationary. If Static navigation filter is disabled, it will apply no changes on GNSS data. If Static navigation filter is enabled, it will filter changes in GNSS position if no movement is detected (depends on Object Motion Detection Settings). It allows filtering GNSS jumps when object is parked (is not moving) and GNSS position is still traced.

System	SYSTEM	
Records	Sleep Settings	
GSM	Sleep Mode:	Disabled
DataAcquisitionModes	Sleep Timeout:	1 min
Features	Analog Input Settings	
IO	Analog Input value range	Range 10V
LVCAN	Object Motion Detection Settings	
	Stop Detection Source	GPS
	Static Navigation Settings	
	Static Navigation Mode	Enabled
	Records Settings	
	Saving/Sending Without Time Synchronization	Disabled
	GNSS Settings	
	Satellite System	GNSS (all available)
	GNSS FIX Timeout for Time Synchronization via NTP	60 s
	Ignition Settings	
	Ignition Source	Power Voltage
	Ignition Detection	Manual
	Ignition Detection Timeout	10 s
	High Voltage Level	30000 mV
	Low Voltage Level	13000 mV

Also if Power Voltage is chosen for ignition source there is possibility to choose Manual ignition detection or automatic ignition detection. For manual ignition user has to choose power voltage levels by himself. For automatic ignition FM3612 automatically detects ignition. In 12 V systems ignition is on when voltage is between 13,2 - 16 V and for 24 V systems ignition is detected when voltage is between 27 - 32 V.