

FMC230 SMS events

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SMS events functionality allows FMC230 to send a configured SMS when an event is triggered. This event can be triggered by every I/O element.

When any of the I/O elements is triggered, FMC230 sends a configured SMS message to a defined phone number. If SMS events are activated but there are no numbers defined in *GSM Predefined Numbers* list (similarly as in the picture below), then the device will not send any messages.



The sent SMS messages format is following:

"Date Time Current Coordinate Event Text"

For example, if FMC230 is configured to send an SMS, when Ignition reaches high level while configured with *High priority* and event generation on both range entrance and exit (as shown on the figure below), then the sent SMS is:

"2017/06/13 13:52:18 Lon:25.255537 Lat:54.667193 Ignition 1"

The screenshot displays the FMC230 configuration interface. At the top, there are buttons for 'Load from device', 'Save to device', 'Update firmware', 'Reset configuration', 'Load from file', 'Save to file', 'Read records', and 'Reboot device'. On the right, a box shows the device's IMEI (352000000000000), FW (01.00.00 Rev:00), and Configuration (1.00.0.0). The left sidebar contains a menu with options like Status, Security, System, GPRS, Data Acquisition, SMS \ Call Settings, GSM Operators, Features, Accelerometer Features, Auto Geofence, Manual Geofence, Trip \ Odometer, Bluetooth, Bluetooth 4.0, 1-Wire, I/O (selected), OBD II, and CAN Adapter. The main area shows a table for I/O settings with columns for Input Name, Units, Priority, Low Level, High Level, Event Only, Operand, Avg Const, Send SMS To, and SMS Text. The table lists various inputs like Ignition, Movement, Data Mode, GSM Signal, Sleep Mode, GNSS Status, GNSS PDOP, GNSS HDOP, External Voltage, Speed, GSM Cell ID, GSM Area Code, Battery Voltage, Battery Current, Active GSM Operator, Trip Odometer, Total Odometer, Digital Input 1, Analog Input 1, Digital Output 1, Digital Output 3, Fuel Used GPS, Fuel Rate GPS, Axis X, Axis Y, Axis Z, ICCID, Ground Sense, and Digital Input 2. Each input has a priority level (None, Low, High, Panic) and a status (Crash, Yes, No) for event generation.

Input Name	Units	Priority	Low Level	High Level	Event Only	Operand	Avg Const	Send SMS To	SMS Text
Ignition		None Low High Panic	0 ~	0 ~	Crash Yes No	On Change	10		Ignition
Movement		None Low High Panic	0 ~	0 ~	Crash Yes No	On Change	10		Movement
Data Mode		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			Data Mode
GSM Signal		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		GSM Signal
Sleep Mode		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			Sleep Mode
GNSS Status		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			GNSS Power
GNSS PDOP		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		GNSS PDOP
GNSS HDOP		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		GNSS HDOP
External Voltage	mV	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		External Voltage
Speed	km/h	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		Speed
GSM Cell ID		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			GSM Cell ID
GSM Area Code		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			GSM Area Code
Battery Voltage	mV	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Battery Voltage
Battery Current	mA	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Battery Current
Active GSM Operator		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			Active GSM Operator
Trip Odometer	m	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			Trip Odometer
Total Odometer	m	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring			Total Odometer
Digital Input 1		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		Dig. Input 1
Analog Input 1	mV	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Analog Input 1
Digital Output 1		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Dig. Output 1
Digital Output 3		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Dig. Output 1
Fuel Used GPS	ml	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		FC By GNSS
Fuel Rate GPS	l/h*100	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		FC AVG By GNSS
Axis X	mG	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		Axis X
Axis Y	mG	None Low High Panic	-4 ~	0 ~	Crash Yes No	Monitoring	1		Axis Y
Axis Z	mG	None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		Axis Z
ICCID		None Low High Panic			Crash Yes No	Monitoring			ICCID Value
Ground Sense		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	10		Grnd. Sense
Digital Input 2		None Low High Panic	0 ~	0 ~	Crash Yes No	Monitoring	1		Dig. Input 2

The SMS Text field can be altered and any text can be entered. Maximum message length is 160 symbols (numbers, letters and symbols in ASCII, except for comma symbol ",").

If FMC230 is in *Deep Sleep* mode and an SMS event occurs with *Low priority* (which does not wake up FMC230), then the device does not send the message. It is saved to device memory until it wakes up from *Deep Sleep* mode and GSM modem starts working normally. After it wakes up, all the messages that are saved to memory will be sent, but keep in mind that only 10 messages can be saved to memory - all other messages will not be saved, until there is free memory space.