

# Template:FM6320 Device Family Parameter list

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## System parameters

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Sleep Mode</b>	x000	0	3	0	-	U8
0	Disable					
1	Enable					
2	Deep sleep					
<b>Sleep Timeout</b>	x001	0	9000	1	-	U16
<b>Ignition source</b>	x900	0	5	0	-	U8

0	Power voltage						
1	DIN 1						
2	DIN 2						
3	DIN 3						
4	DIN 4						
5	Movement						
	<b>High Voltage Level(for Ignition)</b>	x901	0	30000	0	-	U16
	<b>Low Voltage Level (for Ignition)</b>	x902	0	30000	0	-	U16

## GPRS data sending settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Server 1</b>						
GPRS Context Activation	x240	0 (Disable)	1 (Enable)	0	-	S8
Protocol		0 (TCP)	1 (UDP)	0	-	U8
Server Response Timeout		5	300	5	-	U16
Domain		Empty	56 char	Empty	-	-
Target Server Port		0	65535	0	-	U16
<b>Configuring format:</b>		<Enable>,<IP>,<port>,<protocol>,<Server Response Tmo>				
<b>Server 2</b>						
GPRS Context Activation	x242	0 (Disable)	1 (Enable)	0	-	S8
Protocol		0 (TCP)	1 (UDP)	0	-	U8
Domain		Empty	56 char	Empty	-	-
Target Server Port		0	65535	0	-	U16
<b>Configuring format:</b>		<Enable>,<IP>,<port>,<protocol>				

## GPRS data limit settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Enable GPRS limits	x241	0 (Disable)	1 (Enable)	0	-	U8
Data limit Home		1	10000	100	-	U16
Data limit Roaming		1	10000	10	-	U16
<b>Configuring format:</b>		<Enable>,,				

## SMS security settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
SMS Login	x252	Empty	5 char	Empty	-	S8[5]
SMS Password	x253	Empty	5 char	Empty	-	S8[5]
Authorized phone numbers	x260-x269	Empty	16 char	Empty	-	S8[17]

## SMS data sending settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
SMS Data	x250	0	1 (Enable) (Disable)	0	-	U8
SMS Data send week time schedule	x273	Binary decoding	Binary decoding	-	-	20 byte array
<b>Configuring format:</b>		<x1><x2><x3><x4>.....<x19>				

## Operator list settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Preferred Operator	x271	0	99999999	0	-	U32
Black List Operator	x272	0	99999999	0	-	U32
<b>Configuring format:</b> (setparam Y271 X)		X is start position. If no X is set starts from 0 Max 19 operator codes can be set (separated by comma) in one SMS command.				
<b>Reading format:</b> (getparam Y271 X)		X values can be 1,2,3. If X = 1, Operator codes from 0-19 are read from configuration and sent via SMS. If X = 2, Operator codes from 20-39 are read from configuration and sent via SMS. If X = 3, Operator codes from 40-49 are read from configuration and sent via SMS. If X = any other, Operator codes from 0-19 are read from configuration and sent via SMS				
		*User must use X, without X value device responds that parameter is wrong or it can respond with wrong operator codes.				

## Data Acquisition settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Data acquisition modes</b>	x010					
Min Period (in seconds)		0	9999999	600	-	U32
Min Distance (in meters)		0	65535	0	-	U32
Min Angle (in degrees)		0	180	0	-	U16
Min Speed (in km/h)		0	400	0	-	U16
Min Speed Source		0/1/2/3/4 (0-GPS, 1-LVCAN, 2-ALLCAN, 3-FMS, 4-KLINE)		0	-	U8
Min Saved Records		1	25	10	-	U8
Min Send Period (in seconds)		0	9999999	600	-	U32
<b>Configuring format:</b>		<minperiod>,<mindistance>,<minangle>,<minspeed>,<minspeedsource>,<min savedrec>,<sendperiod>				

## Geofencing settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Frame Border (in meters)	x020	0	9999999	1	1000	U32
Geofence Overspeed control	x021	0	5	0	-	U8

Geofence Zone #1	x030						
Zone #1 Shape		0 (Circle)	1 (Rectangle)	0	-		U32
<b>Zone #1 priority</b>		0	7 (exl. 3)	0	-		U8
0	Low						
1	High						
2	Panic						
4	SW21						
5	SW22						
6	SW23						
7	SW24						
<b>Zone #1 Generate Event</b>		0	3	0	-		U8
0	No Event						
1	On enter						
2	On exit						
3	On both						
Min Angle (in degrees)		0	180	0	-		U16
Zone #1 Longitude X1 (Rectangle) / X (Circle)		-180	180	0	-		Float
Zone #1 Latitude Y1 (Rectangle) / Y (Circle)		-90	90	0	-		Float
Zone #1 Longitude X2 (Rectangle) / R (Circle)		-180	180	0	-		Float
Zone #1 Latitude Y2 (Rectangle) / None (Circle)		-90	90	0	-		Float
			180 / 9999999.99	0	0		Float
		-	-	-	-		-
<b>Configuring format:</b>		<shape>,<priority>,<generateEvent>,<fx1>,<fy1>,<fx2>,<fy2>					
Geofence Zone #2	x031	Same configuration as Geofence Zone #1					
Geofence Zone #3	x032						
Geofence Zone #4	x033						
Geofence Zone #5	x034						
Geofence Zone #6	x035						
Geofence Zone #7	x036						
Geofence Zone #8	x037						
Geofence Zone #9	x038						
Geofence Zone #10	x039						
Geofence Zone #11	x040						
Geofence Zone #12	x041						
Geofence Zone #13	x042						
Geofence Zone #14	x043						
Geofence Zone #15	x044						
Geofence Zone #16	x045						
Geofence Zone #17	x046						
Geofence Zone #18	x047						
Geofence Zone #19	x048						
Geofence Zone #20	x049						

## Auto Geofencing settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	

Autogeofence	x290					
Deactivate By		0	1	0	-	U8
		(Ignition)	(iButton)			
Activation Timeout (in seconds)		0	65535	60	60	U16
Min Angle (in degrees)		0	180	0	-	U16
<b>Zone #1 priority</b>		0	7	1	1	U8
0	Low					
1	High					
2	Panic					
4	SW21					
5	SW22					
6	SW23					
7	SW24					
<b>Zone #1 Generate Event</b>		0	3	0	2	U8
0	No Event					
1	On enter					
2	On exit					
3	On both					
Radius (in meters)		0	9999999	100	100	U32
<b>Configuring format:</b>		<deactivateBy>,<tmo>,<priority>,<eventGenerating>,<radius>				

## Towing Detection settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Towing Detection	X917	0	2 (High priority)	0	-	U8
		(Disable)				
Activation Tmo (min)		0	1440	5	-	-
Ignition Check (sec)		0	60	5	-	-
Duration (ms)		100	5000	1000	1000	-
Acceleration		0.15	5	0.25	0.25 m/s <sup>2</sup>	-
Angle (deg.)		0.5	5	1.0	1.0	U8
Make Call Number		0	9	-	-	-
<b>Configuring Format</b>		<priority>,<activationTmo>,<TowingEvtTmo>,<Duration>,<Acceleration>,<TowingAngle>,<TowingCallNr>				

## iButton List

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Authorized iButtons	500-999	0	FFFFFFFF	0	-	U64
			FFFFFFFF			

## Eco/Green driving settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	

<b>Eco driving type</b>	x910	0	5	0	-	U8
0	Disable					
1	No DOUT control					
2	DOUT1 control					
3	DOUT2 control					
4	DOUT3 control					
5	DOUT4 control					

<b>Eco source</b>		0 (accelerometer)	1 (GPS)	0	-	U8
Max Acceleration Force		5	100	22	25	Float
Max Braking Force		5	100	25	35	Float
Max Cornering Force		5	100	21	-	Float
Acceleration Active Output Duration		0	100	1	-	Float
Braking Active Output Duration		0	100	1	-	Float
Cornering Active Output Duration		0	100	1	-	Float

**Configuring format:**

<Eco driving type>,<Ecosource><MaxAcceleration>,<MaxBraking>,<MaxCornering>,<AccOutputDuration>,<BrakingOutputDuration>,<CorneringOutputDuration>

## Overspeeding settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Overspeeding mode</b>	x911	0	5	0	-	U8
0	Disable					
1	No DOUT control					
2	DOUT1 control					
3	DOUT2 control					
4	DOUT3 control					
5	DOUT4 control					
Max Allowed Speed		0	300	90	-	U16

**Configuring format:** <Overspeeding mode>,<MaxSpeed>

## Immobilizer settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Immobilizer mode</b>	x912	0	5	0	-	U8
0	Disable					
1	No DOUT control					
2	DOUT1 control					
3	DOUT2 control					
4	DOUT3 control					
5	DOUT4 control					
iButton List checking		0 (Disable)	1 (Enable)	0	-	U8
Ignition Timeout		1	255	30	-	U16

**Configuring format:** <ImmobilizerMode>,<button\_enable>,<TMO>

## Excessive Idling settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	

Excessive Idling	x913	0 (Disable)	1 (Enable)	0	-	U8
Time to stationary		0	255	1	-	U16
Time to movement		0 (Disable)	255	1	-	U16

**Configuring format:** <Enable>,,

## Jamming settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>Jamming Detection</b>	x914	0	5	0	-	U8
0		Disable				
1		No DOUT control				
2		DOUT1 control				
3		DOUT2 control				
4		DOUT3 control				
5		DOUT4 control				
Sensitivity		1 (low)	3 (High)	0	-	U8
Timeout		1	255	60	-	-
DOUT duration		1	255	0	-	U16

**Configuring format:** <Enable>,<Sensitivity>,<Start\_TMO>,<DOUT\_duration\_TMO>

## iButton Notification settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
<b>iButton notification</b>	x915	0	5	0	-	U8
0		Disable				
1		No DOUT control				
2		DOUT1 control				
3		DOUT2 control				
4		DOUT3 control				
5		DOUT4 control				
Timeout		1	65530	0	-	U16

**Configuring format:** <Enable/Dout control>,<DOUT TMO>

## Crash Detection settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	
Scenario	x918	0 (Disable)	1 (Enable)	0	-	U8
Acceleration Threshold		16	8000	4000	-	U8
Duration		0	600	10	-	U8

**Configuring format:** <Scenario>,<Threshold>,< Duration>

## Trip settings

Parameter	ID	Parameter value				Value type
		MIN	MAX	Default	Recommended	

Trip	x280	0 (Disable)	1 (Enable)	0	-	U8
Start Speed		0	255	5	-	U8
Ignition Off Timeout		0	65536	60	-	U16
Remember iButton ID, while Trip detected		0 (Disable)	1 (Enable)	0	-	U8
Trip Mode		0	1	0	-	U8

(Between) (Continuous)

**Configuring format:** <Enable>,<StartStopSpeed>,<IgnitionOffTimeout>,<RememberiButton>,<Mode>

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## Global and External devices parameters

Parameter	ID	Possible Parameter Value	Default Value
Profile Change On Event	100	0/1 (0 - disable, 1 - enable)	0
Prefered records saving destination	101	0/1 (0 - internal memory, 1 - SDcard)	10
Analog Input 1-2 Type	105	0/1 ( 0 - 10 V, 1 - 30 V)	0
Analog Input 3 Type	106	0/1 ( 0 - 10 V, 1 - 30 V)	0
Static Navigation On/Off	107	0/1 (0 - disable, 1 - enable)	1
Records Sorting	108	0/1 ( 0 - from newest, 1 - from oldest)	0
Active Data Link Timeout	109	0 - 259200 (time in seconds)	5
Accelerometer Filter Start Value	112	1 - 10 (time in seconds)	1
Accelerometer Filter Stop Value	113	1 - 255 (time in seconds)	30
Total Odometer source	114	0/1/2/3/4 (0 - GPS, 1 - LVCAN, 2-ALLCAN, 3-FMS, 4-KLINE)	0
J1708 Enable parameter	115	0/1 (0 - disable, 1 - enable)	0
GNSS Satellite System	116	0/1/2/3/4 (0 - all available, 1 - GPS, 2 - GLONASS, 3 - GNSS (all available) + SBAS, 4 - GPS + SBAS)	0
NTP mode	129	0/1/2/3 (0 - disable, 1 - NTP + NITZ2, 2 - NTP Only, 3 - NITZ Only)	0
GNSS TMO For NTP	121	0-300	0
Garmin Ping	117	0/1 (0 - disable, 1 - enable)	0
Garmin Unicode	118	0/1 (0 - disable, 1 - enable)	1
COM1 baudrate	119	0 - 115200	
COM1 Mode	120	0-255 (5 - Silent,97 - LLS Mode,98 - LCD Mode, 99 - RFID Mode, 100 - RFID MF7 Mode, 101 - Garmin Mode, 161 - COM TCP Link Mode, 177 - COM TCP Link Mode Binary, 203 - DTO 1731, 204 -SE500, 10-11 - reserved)	
COM2 Baudrate	122	0 - 115200	115200
COM1 start byte	123	0 - 255	0
COM2 Mode	124	0 - 255 (5 - Silent, 13 - FM Log, 15 - NMEA, 97 - LLS, 98 - LCD, 99 - RFID, 100 - RFID M7, 101 - Garmin, 161 - COM TCP Link, 177 - COM TCP Link binary)	5
TCP Link mode buffering	125	0/1 (0 - disable, 1 - enable)	0
COM1 end byte	126	0 - 255	0
COM2 start byte	127	0 - 255	0
COM2 end byte	128	0 - 255	0
COM1 Timestamp	151	0/1 (0 - disable, 1 - enable)	0
COM1 CMD ID	152	0 - 255	6
COM2 Timestamp	153	0/1 (0 - disable, 1 - enable)	0
COM2 CMD ID	154	0 - 255	6



Records saving/Sending	157	0/1/2 (0 - After GNSS fix, 1 - Always, 2 - After time synchronization)	0
SMS Event number	222-231	SMS Event number	„“
SMS Event ID	300-499	SMS Events	-
Authorized iButtons	500-999	Authorized iButtons FFFFFFFF	-
RS485 Activate	232	0/1 (0 - disable, 1 - enable)	0
RS485 Baudrate	233	0 - 115200	115200
RS485 Mode	234	0 - 255 (5 - Silent, 13 - Log mode, 15 - NMEA, 97 - LLS Mode, 161 - TCP link mode, 171 - Binary mode)	5
LLS 1-5 adress	256-260	0,255	0
SIM1 GPRS APN	240	All character range	
SIM1 GPRS USER	241	All character range	
SIM1 GPRS PASS	242	All character range	
SIM2 GPRS APN	243	All character range	
SIM2 GPRS USER	244	All character range	
SIM2 GPRS PASS	245	All character range	
Tachograph ignition source	158	1/2/3/4	3
Tachograph device	159	0 - DTC0 1381, 1 - SE5000	0
Tacho web	160	0/1 (0 - disable, 1 - enable)	0
Tacho web domain	161	Maximum 56 Char	Empty
Tacho web port	162	0 - 65535	0
Tacho web start delay	174	0 - 255 (Min)	5

## CAN

Parameter name	ID	Minimum value	Maximum value	Recommended value	Value type
CAN 1 Enable parameter	146	0	2	1	U8
CAN 1 Baud Rate	147	0	1000	250	U32
CAN 1 operational mode	148	0	1	0	U8
CAN 2 Enable parameter (Used for tachograph)	149	0	2	1	U8
CAN 2 Baud Rate	150	250	500	250	U32
CAN 2 operational mode	163	0	1	0	U8

## LVCAN

Parameter name	ID	Minimum value	Maximum value	Recommended value	Value type
LVCAN mode	903	0	2	0	U8
Send data with 0, if ignition is off	904	0	1	1	U8

## AutoCAN

Category name	Element ID	Element name
Cruise Control/Vehicle Speed	346	Brake switch
	347	Wheel based speed
	348	Cruise control active
	349	Clutch switch
	350	PTO state

Electronic Engine Controller #2	351	Accelerator pedal position 1 X
	352	Engine Percent Load At Current Speed X
Fuel Consumption	353	Engine total fuel used
Dash Display	354	Fuel level 1 X
Electronic Engine Controller #1	355	Engine speed X
Vehicle Weight **	356-370	Axle location
		Tire location
		Axle weight
Engine Hours, Revolutions: HOURS	371	Engine total hours of Operation X
Vehicle Identification	372	Vehicle identification number X
FMS Standard interface	373	SW-version supported X
	374	Diagnostics supported X
	375	Requests supported X
High Resolution Vehicle Distance	376	High resolution total vehicle distance X
Service Information	377	Service distance
Tachograph	378	Vehicle motion X
	379	driver 2 working state X
	380	driver 1 working state X
	381	Vehicle overspeed
	382	Driver 1 time rel. states
	383	Driver 2 time rel. states
	384	Driver 1 card X
	385	Driver 2 card X
	386	Direction indicator
	387	Tachograph performance X
	388	Handling information X
	389	System event X
	390	Tachograph vehicle speed X
Engine Temperature 1	391	engine coolant temperature X
Ambient Conditions	392	Ambient Air Temperature X
Driver's Identification	393	Driver 1 ID
Driver's Identification	394	Driver 2 ID
Fuel Economy	395	Fuel rate
	396	Instantaneous Fuel Economy
PTO Drive Engagement	397	At least one PTO engaged
PTO Drive Engagement	397	At least one PTO engaged
High Resolution Fuel Consumption (Liquid)	398	High resolution engine total fuel used