

# FMM80A Parameter list

[Main Page](#) > [Fast & Easy Trackers](#) > [FMM80A](#) > [FMM80A Manual](#) > **FMM80A Parameter list**

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## Contents

- [1 System parameters](#)
- [2 GPRS parameters](#)
- [3 SMS/Call settings](#)
- [4 GSM operators](#)
- [5 Data acquisition mode parameters](#)
  - [5.1 Home Network GSM operator code "Vehicle on STOP" parameters](#)
  - [5.2 Home Network GSM operator code "Vehicle MOVING" parameters](#)
  - [5.3 Roaming Network GSM operator code "Vehicle on STOP" parameters](#)
  - [5.4 Roaming Network GSM operator code "Vehicle MOVING" parameters](#)
  - [5.5 Unknown Network GSM operator code "Vehicle on STOP" parameters](#)
  - [5.6 Unknown Network GSM operator code "Vehicle MOVING" parameters](#)
- [6 Features parameters](#)
  - [6.1 Green driving parameters](#)
  - [6.2 Overspeeding scenario parameters](#)
  - [6.3 Jamming scenario parameters](#)
- [7 Trip/Odometer](#)
  - [7.1 Trip scenario parameters](#)
  - [7.2 Advanced trip scenario parameters](#)
  - [7.3 Odometer parameters](#)
- [8 Accelerometer features](#)
  - [8.1 Unplug Detection](#)
  - [8.2 Towing Detection](#)
  - [8.3 Crash Detection](#)
  - [8.4 Excessive Idling](#)
- [9 AutoGeofencing scenario parameters](#)
- [10 Manual Geofence](#)
- [11 Bluetooth](#)
- [12 Bluetooth 4.0](#)
  - [12.1 Common Settings](#)
  - [12.2 BLE functionalities Connection #1](#)
  - [12.3 BLE functionalities Connection #2](#)
  - [12.4 BLE functionalities Connection #3](#)
  - [12.5 BLE functionalities Connection #4](#)
- [13 Beacon List Parameters](#)
- [14 Tracking on Demand](#)
- [15 I/O parameters](#)
- [16 OBD II \(Bluetooth\)](#)

# System parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
138	Uint8	0	0	2	1 - Ignition 2 - Movement 4 - GPS	Movement source
106	Uint8	1	0	1	0 - Disable 1 - Enable	Static navigation
112	Uint8	1	0	1	1 - Movement 2 - Ignition 3 - Movement and Ignition	Static navigation source
107	Uint8	2	0	2	0 - After Position Fix 1 - Always 2 - After Time Sync	Send/Save records without TS
108	Uint8	1	0	1	0 - Disable 1 - Enable	LED Indication
109	Uint8	10	1	15	0 - Undefined 1 - Beidou only 2 - Glonass only 3 - Glonass and Beidou not allowed 4 - Galileo only 5 - Galileo and Beidou 6 - Galileo and Glonass 7 - Galileo, Glonass and Beidou not allowed 8 - Gps only 9 - Gps and Beidou 10 - Gps and Glonass 11 - Gps, Glonass and Beidou not allowed 12 - Gps and Galileo 13 - Gps, Galileo and Beidou 14 - Gps, Galileo and Glonass 15 - Gps, Galileo, Glonass and Beidou and not allowed	GNSS source
110	Uint8	0	0	1	0 - On need 1 - After ignition on	Battery charge mode
113	Uint8	0	0	1	0 - Codec 8 1 - Codec 8 Extended	Protocol Settings
Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
102	Uint8	2	0	2	0 - Disable 1 - Gps sleep 2 - Deep sleep 3 - Online Deep sleep 4 - Ultra sleep	Sleep settings
103	Uint16	1	1	3000	Minutes	Timeout

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
101	Uint8	4	1	14	2 - Accelerometer	Ignition settings
					3 - Digital Input or Accelerometer	
					4 - Power Voltage	
					5 - Digital Input or Power Voltage	
					6 - Accelerometer or Power Voltage	
					7 - Digital Input, Accelerometer, or Power Voltage	
					8 - Engine RPM	
					9 - Digital Input or Engine RPM	
					10 - Accelerometer or Engine RPM	
					11 - Digital Input, Accelerometer or Engine RPM	
					12 - Power Voltage or Engine RPM	
					13 - Digital Input, Power Voltage or Engine RPM	
					14 - Accelerometer, Power Voltage or Engine RPM	
					104	
105	Uint16	13200	0	29999	mV	Low voltage

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
19001	Uint16	5	1	60	Seconds	Movement Start Delay
19002	Uint16	60	5	300	Seconds	Movement Stop Delay

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
900	Uint8	1	0	3	0 - Gps only 1 - NITZ and NTP 2 - NTP 3 - NITZ	Synchronization settings
901	Uint8	0	0	24	Hours	NTP Resync
902	Char	"avl1.teltonika.lt"	0	55	String	NTP server 1
903	Char	"pool.ntp.org"	0	55	String	NTP server 2

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
169	Uint8	2	0	2	0 - Disabled 1 - Once 2 - Continuous	Accelerometer Auto Calibration
170	Uint8	1	0	1	0 Disabled 1 Enabled	Gravity Filter

## GPRS parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1000	Uint32	5	0	259200	Seconds	Open link timeout
1001	Uint16	30	5	300	Seconds	Response timeout

1002 Uint8 0 0 1 0 - Newest  
1 - Oldest Sort by

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
2000	Uint8	1	0	1	0 - Disable 1 - Enable	GPRS context
2001	Char	""	0	32	String	APN
2002	Char	""	0	32	String	APN username
2003	Char	""	0	32	String	APN password

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
2004	Char	""	0	55	String	Domain
2005	Uint16	0	0	65535	Number	Port
2006	Uint8	1	0	1	0 - TCP 1 - UDP	Protocol

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
2010	Uint8	0	0	2	0 - Disable 1 - Backup 2 - Duplicate	Backup Server Mode
2007	Char	""	0	55	String	Backup Server Domain
2008	Uint16	0	0	65535	Number	Backup Server Port
2009	Uint8	0	0	1	0 - TCP 1 - UDP	Backup Server Protocol

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
13003	Uint8	1	0	1	0 - Disable 1 - Enable	FOTA WEB Status
13000	Char	fm.teltonika.lt	0	55	String	FOTA WEB Domain
13001	Uint16	5000	0	65535	Number	FOTA WEB Port
13002	Uint16	720	30	65535	Number	FOTA WEB Period

## SMS/Call settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
3000	Uint8	0	0	1	0 - Disable 1 - Enable	Allow SMS data sending
3001	Char	""	0	16	String	Data Send Number

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
3003	Char	""	0	5	String	Login
3004	Char	""	0	5	String	Password
3006	Uint16	UTC+00:00	UTC-12:00	UTC+13:00	Time zone	SMS event Time Zone

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
3005	Uint8	0	0	4	0 - Do nothing 1 - Hangup 2 - Report position	Incoming call action

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
4000-4199	Char	""	0	16	String	Authorized number

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
6000-6009	Char	""	0	16	String	Predefined number

## GSM operators

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
5000-5049	Uint32	0	0	999999	Number	SIM roaming operator list
5500-5549	Uint32	0	0	999999	Number	Operator blacklist

## Data acquisition mode parameters

### Home Network GSM operator code "Vehicle on STOP" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10000	Uint16	3600	0	65535	Min Period
10004	Uint8	1	1	255	Min Saved Records
10005	Uint16	120	0	65535	Send Period

### Home Network GSM operator code "Vehicle MOVING" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10050	Uint16	300	0	65535	Min Period
10051	Uint16	100	0	65535	Min Distance
10052	Uint8	10	0	180	Min Angle
10053	Uint8	10	0	100	Min Speed Delta
10054	Uint8	1	1	255	Min Saved Records
10055	Uint16	120	0	65535	Send Period

### Roaming Network GSM operator code "Vehicle on STOP" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10100	Uint16	3600	0	65535	Min Period
10104	Uint8	1	1	255	Min Saved Records
10105	Uint16	0	0	65535	Send Period

### Roaming Network GSM operator code "Vehicle MOVING" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10150	Uint16	300	0	65535	Min Period
10151	Uint16	100	0	65535	Min Distance
10152	Uint8	10	0	180	Min Angle
10153	Uint8	10	0	100	Min Speed Delta
10154	Uint8	1	1	255	Min Saved Records
10155	Uint16	0	0	65535	Send Period

## Unknown Network GSM operator code "Vehicle on STOP" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10200	Uint16	3600	0	65535	Min Period
10204	Uint8	1	1	255	Min Saved Records
10205	Uint16	120	0	65535	Send Period

## Unknown Network GSM operator code "Vehicle MOVING" parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10250	Uint16	300	0	65535	Min Period
10251	Uint16	100	0	65535	Min Distance
10252	Uint8	10	0	180	Min Angle
10253	Uint8	10	0	100	Min Speed Delta
10254	Uint8	1	1	255	Min Saved Records
10255	Uint16	0	0	65535	Send Period

## Features parameters

### Green driving parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11000	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11004	Uint8	2.5	0.5	10	m/s <sup>2</sup>	Max acceleration
11005	Uint8	2.7	0.5	10	m/s <sup>2</sup>	Max braking
11006	Uint8	3.4	0.5	10	m/s <sup>2</sup>	Max cornering
11007	Uint8	0	0	1	0 - GPS 1 - Accelerometer	Source
11008	uint8	0	0	1	Enable/Disable	Duration
11003	Uint8	0	0	2 (1 for FMB125)	0 - None 1 - DOUT 1 2 - DOUT 2	Output control
11001	Int32	200	0	2147483647	Milliseconds	DOUT ON duration
11002	Int32	200	0	2147483647	Milliseconds	DOUT OFF duration
7034	Uint8	0	0	10	Phone number	Send SMS to
8034	String	"Green Driving"	0	160	Text	Sms text

### Overspeeding scenario parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		

11100	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11104	Uint16	90	0	260	km/h	Max speed
11103	Uint8	0	0	2 (1 for FMB125)	0 - None 1 - DOUT 1 2 - DOUT 2	Output control
11101	Int32	200	0	2147483647	Milliseconds	DOUT ON duration
11102	Int32	200	0	2147483647	Milliseconds	DOUT OFF duration
7032	Uint8	0	0	10	Phone number	Send SMS to
8032	String	"Overspeeding"	0	160	Text	Sms text

## Jamming scenario parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11300	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11303	Uint8	1	0	1	0 - Disable 1 - Enable	Eventual records
11304	Uint8	0	0	2 (1 for FMB125)	0 - None 1 - DOUT1 2 - DOUT2	Output control
11301	Int32	200	0	2147483647	Milliseconds	DOUT ON duration
11302	Int32	200	0	2147483647	Milliseconds	DOUT OFF duration
11305	Uint16	60	0	65535	Seconds	Timeout

## Trip/Odometer

### Trip scenario parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11800	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11801	Uint8	1	0	1	0 - Disable 1 - Enable	Eventual records
11802	Uint8	0	0	1	0 - Continuous 1 - Between records	Mode
11803	Uint8	5	0	255	km/h	Start speed
11804	Uint16	60	0	65535	Seconds	Ignition off timeout
7031	Uint8	0	0	10	Phone number	Send SMS to
8031	String	"Trip"	0	160	Text	Sms text

### Advanced trip scenario parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
700	Uint16	100	0	65535	0 - Disable	Eco score allowed events

11805	UInt8	0	0	1	0 - Disable 1 - Enable	Remember iButton
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## Odometer parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11806	UInt8	0	0	2	0 - GNSS 1 - OBD 2 - LVCAN	Calculation source
11807	UInt32	0	0	4294967	Kilometer	Odometer Value

## Accelerometer features

### Unplug Detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11500	UInt8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario setting
11501	UInt8	1	0	1	0 - Disable 1 - Enable	Eventual records
11502	UInt8	1	0	1	0 - Simple 1 - Advanced	Detection mode
7036	UInt8	0	0	10	Phone number	Send SMS to
8036	String	"Unplug"	0	160	Text	Sms text

### Towing Detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11600	UInt8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Priority
11601	UInt8	1	0	1	0 - Disable 1 - Enable	Eventual records
11602	UInt16	5	0	65535	Minutes	Activation timeout
11603	UInt8	0	0	60	Seconds	Event timeout
11604	UInt8	0	0	10	Phone number	Make call to
11605	Double	0.22	0.1	5	mG	Threshold
11606	Double	1	0.1	5	Degrees	Angle
11607	UInt16	1000	1	5000	Milliseconds	Duration
7035	UInt8	0	0	10	Phone number	Send SMS to
8035	String	"Towing"	0	160	Text	Sms text

### Crash Detection



Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11400	UInt8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario setting
11401	UInt8	5	0	1000	Milliseconds	Duration
11402	UInt16	1500	0	7900	mG	Threshold
11406	Int8	0	0	1	0 - Disable 1 - Enable	Crash trace
7037	UInt8	0	0	10	Phone number	Send SMS to
8037	String	"Crash"	0	160	Text	Sms text

## Excessive Idling

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11200	UInt8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11203	UInt8	1	0	1	0 - Disable 1 - Enable	Eventual records
11205	UInt8	5	0	3600	Seconds	Time to stoped
11206	UInt8	2	0	3600	Seconds	Time to moving
11204	UInt8	0	0	2 (1 for FMB125)	0 - None 1 - DOUT 1 2 - DOUT 2	Output control
11201	Int32	200	0	2147483647	Milliseconds	DOUT ON duration
11202	Int32	200	0	2147483647	Milliseconds	DOUT OFF duration
7033	UInt8	0	0	10	Phone number	Send SMS to
8033	String	"Idling Event"	0	160	Text	Sms text

## AutoGeofencing scenario parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
20000	UInt8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Priority
20002	UInt8	1	0	1	0 - Disable 1 - Enable	Eventual records
20003	UInt16	5	0	65535	Minutes	Activation timeout
20001	UInt8	0	0	2	0 - On Exit 1 - On Entrance 2 - On both	AutoGeofence event generating
20005	UInt8	0	0	5	0 - Power voltage 2 - Engine RPM	Deactivate by
20004	UInt32	100	0	1000000	Value	Radius
7030	UInt64	0	0	10	Phone number	Send SMS to
8030	String	"AutoGeofence"	0	160	Text	Sms text

# Manual Geofence

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
20100	Uint8	0	0	3	0 - Disabled 1 - Low 2 - High 3 - Panic	Priority
20101	Uint8	0	0	3	0 - No event 1 - On exiting zone 2 - On entering zone 3 - On both	Operand
20102	Uint8	1	0	1	0 - Disable 1 - Enable	Eventual records
20103	Uint32	1	0	1000000	Border value	Frame border
20104	Uint8	0	0	1	0 - Circle 1 - Rectangle	Shape type
20105	Uint32	5	0	1000000	Metres	Radius
20106	Double	0	-180	180	Coordinate	X1
20107	Double	0	-90	90	Coordinate	Y1
20108	Double	0	-180	180	Coordinate	X2
20109	Double	0	-90	90	Coordinate	Y2
20110	Uint8	0	0	1	0 - Disable 1 - Enable	Overspeeding
20111	Uint16	90	0	1000	km/h	Max allowed speed
7025	Uint8	0	0	10	Phone number	Send SMS to
8025	String	"Geozone Zone #"	0	160	Text	SMS text

Similarly to a group defined in the upper table:

Zone number	Parameter														
	Priority	Event generating	Eventual records	Frame border	Shape type	Radius	X1	Y1	X2	Y2	Overspeeding	Max allowed speed	Send sms to	SMS text	
1	20100	20101	20102	20103	20104	20105	20106	20107	20108	20109	20110	20111	7025	8025	
2	20120	20121	20122	20123	20124	20125	20126	20127	20128	20129	20130	20131	7026	8026	
3	20140	20141	20142	20143	20144	20145	20146	20147	20148	20149	20150	20151	7027	8027	
4	20160	20161	20162	20163	20164	20165	20166	20167	20168	20169	20170	20171	7028	8028	
5	20180	20181	20182	20183	20184	20185	20186	20187	20188	20189	20190	20191	7029	8029	
6	20200	20201	20202	20203	20204	20205	20206	20207	20208	20209	20210	20211	7071	8071	
7	20220	20221	20222	20223	20224	20225	20226	20227	20228	20229	20230	20231	7072	8072	
8	20240	20241	20242	20243	20244	20245	20246	20247	20248	20249	20250	20251	7073	8073	
9	20260	20261	20262	20263	20264	20265	20266	20267	20268	20269	20270	20271	7074	8074	
10	20280	20281	20282	20283	20284	20285	20286	20287	20288	20289	20290	20291	7075	8075	
11	20300	20301	20302	20303	20304	20305	20306	20307	20308	20309	20310	20311	7076	8076	
12	20320	20321	20322	20323	20324	20325	20326	20327	20328	20329	20330	20331	7077	8077	
13	20340	20341	20342	20343	20344	20345	20346	20347	20348	20349	20350	20351	7078	8078	
14	20360	20361	20362	20363	20364	20365	20366	20367	20368	20369	20370	20371	7079	8079	
15	20380	20381	20382	20383	20384	20385	20386	20387	20388	20389	20390	20391	7080	8080	
16	20400	20401	20402	20403	20404	20405	20406	20407	20408	20409	20410	20411	7081	8081	
17	20420	20421	20422	20423	20424	20425	20426	20427	20428	20429	20430	20431	7082	8082	
18	20440	20441	20442	20443	20444	20445	20446	20447	20448	20449	20450	20451	7083	8083	
19	20460	20461	20462	20463	20464	20465	20466	20467	20468	20469	20470	20471	7084	8084	
20	20480	20481	20482	20483	20484	20485	20486	20487	20488	20489	20490	20491	7085	8085	
21	20500	20501	20502	20503	20504	20505	20506	20507	20508	20509	20510	20511	7086	8086	
22	20520	20521	20522	20523	20524	20525	20526	20527	20528	20529	20530	20531	7087	8087	
23	20540	20541	20542	20543	20544	20545	20546	20547	20548	20549	20550	20551	7088	8088	
24	20560	20561	20562	20563	20564	20565	20566	20567	20568	20569	20570	20571	7089	8089	
25	20580	20581	20582	20583	20584	20585	20586	20587	20588	20589	20590	20591	7090	8090	
26	20600	20601	20602	20603	20604	20605	20606	20607	20608	20609	20610	20611	7091	8091	
27	20620	20621	20622	20623	20624	20625	20626	20627	20628	20629	20630	20631	7092	8092	
28	20640	20641	20642	20643	20644	20645	20646	20647	20648	20649	20650	20651	7093	8093	
29	20660	20661	20662	20663	20664	20665	20666	20667	20668	20669	20670	20671	7094	8094	
30	20680	20681	20682	20683	20684	20685	20686	20687	20688	20689	20690	20691	7095	8095	
31	20700	20701	20702	20703	20704	20705	20706	20707	20708	20709	20710	20711	7096	8096	
32	20720	20721	20722	20723	20724	20725	20726	20727	20728	20729	20730	20731	7097	8097	
33	20740	20741	20742	20743	20744	20745	20746	20747	20748	20749	20750	20751	7098	8098	
34	20760	20761	20762	20763	20764	20765	20766	20767	20768	20769	20770	20771	7099	8099	
35	20780	20781	20782	20783	20784	20785	20786	20787	20788	20789	20790	20791	7100	8100	
36	20800	20801	20802	20803	20804	20805	20806	20807	20808	20809	20810	20811	7101	8101	
37	20820	20821	20822	20823	20824	20825	20826	20827	20828	20829	20830	20831	7102	8102	
38	20840	20841	20842	20843	20844	20845	20846	20847	20848	20849	20850	20851	7103	8103	
39	20860	20861	20862	20863	20864	20865	20866	20867	20868	20869	20870	20871	7104	8104	
40	20880	20881	20882	20883	20884	20885	20886	20887	20888	20889	20890	20891	7105	8105	
41	20900	20901	20902	20903	20904	20905	20906	20907	20908	20909	20910	20911	7106	8106	
42	20920	20921	20922	20923	20924	20925	20926	20927	20928	20929	20930	20931	7107	8107	
43	20940	20941	20942	20943	20944	20945	20946	20947	20948	20949	20950	20951	7108	8108	
44	20960	20961	20962	20963	20964	20965	20966	20967	20968	20969	20970	20971	7109	8109	
45	20980	20981	20982	20983	20984	20985	20986	20987	20988	20989	20990	20991	7110	8110	
46	21000	21001	21002	21003	21004	21005	21006	21007	21008	21009	21010	21011	7111	8111	
47	21020	21021	21022	21023	21024	21025	21026	21027	21028	21029	21030	21031	7112	8112	
48	21040	21041	21042	21043	21044	21045	21046	21047	21048	21049	21050	21051	7113	8113	
49	21060	21061	21062	21063	21064	21065	21066	21067	21068	21069	21070	21071	7114	8114	
50	21080	21081	21082	21083	21084	21085	21086	21087	21088	21089	21090	21091	7115	8115	

# Bluetooth

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
800	UInt8	0	0	2	0 - Disable 1 - Enable hidden 2 - Enable visible	Scenario settings
801	String	"FMB1YX_(last 7 IMEI numbers)"	0	16	ID	Local name
802	String	"5555"	0	4	PIN	Local PIN
803	UInt8	0	0	3	0 - PIN only 1 - PIN and MAC 2 - MAC only 3 - None	Security mode
804	String	0	0	12	MAC	External MAC
805	String	0	0	30	ID	External name
806	String	0	0	8	PIN	External PIN
807	UInt8	0	0	3	0 - None 1 - Hands free 2 - OBDII 3 - Data link	Security mode
830-834	String	-	0	12	MAC list	Authorized devices MAC list

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1100	UInt16	120	120	65535	Seconds	TZ-BT04/05/05B Update frequency
1110	UInt8	4	0	6	0 - 1 1 - 2 2 - 3 3 - 4 4 - 5 5 - 6 6 - 7	BT Power Level
1111	UInt8	0	0	4	ID	BLE broadcasting service ID

## Bluetooth 4.0

### Common Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1115	UInt8	0	0	1	0 - Disable 1 - Enable	Non Stop Scan
1100	Int32	120	30	65535	Seconds	TZ-BT04 Update frequency
1113	Int32	60	5	120	Seconds	BLE Scan duration
1114	Int32	30	0	65535	Seconds	Scan retries until error
1110	Int8	5	1	7	Range in meters: 1 - < 0.5 2 - 0.5 3 - 11 4 - 13 5 - 15 6 - 27 7 - 50	BTPower
1111	String	-	-	TextMaxLength="4"	-	BLE broadcasting service ID

1112	Int8	1	0	1	0 - Prohibit 1 - Allow	BLE connection control
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## BLE functionalities Connection #1

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1200	UInt8	0	0	2	0 - Disabled 1 - TZ-BT04/05/05B sensor 2 - Efento sensor	Working mode
1201	UInt8	0	0	8	ID	TZ-BT04/05/05B sensor ID
1202	String	0	0	12	MAC	Efento sensor MAC

## BLE functionalities Connection #2

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1250	UInt8	0	0	2	0 - Disabled 1 - TZ-BT04/05/05B sensor 2 - Efento sensor	Working mode
1251	UInt8	0	0	8	ID	TZ-BT04/05/05B sensor ID
1252	String	0	0	12	MAC	Efento sensor MAC

## BLE functionalities Connection #3

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1300	UInt8	0	0	2	0 - Disabled 1 - TZ-BT04/05/05B sensor 2 - Efento sensor	Working mode
1301	UInt8	0	0	8	ID	TZ-BT04/05/05B sensor ID
1302	String	0	0	12	MAC	Efento sensor MAC

## BLE functionalities Connection #4

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1350	UInt8	0	0	2	0 - Disabled 1 - TZ-BT04/05/05B sensor 2 - Efento sensor	Working mode
1351	UInt8	-	0	8	ID	TZ-BT04/05/05B sensor ID
1352	String	0	0	12	MAC	Efento sensor MAC

## Beacon List Parameters

Parameter ID	Parameter Type	Default value	Value Range		Value	Parameter Name
			Min	Max		
134	UInt8	0	0	2	0 - Disabled 1 - All 2 - Configured	Beacon Detection
136	UInt8	0	0	1	0 - Eventual 1 - Periodic	Beacon Record

137	UInt32	60	0	259200	Seconds	Record Period on Move (s)
139	UInt32	60	0	259200	Seconds	Record Period on Stop (s)

### Beacon List

Parameter ID	iBeacon	EddyStone
1600		
...	UUID:Major:Minor	Namespace:Instance ID
1624		

Example:

<login><space><password><space>setparam

1600:4B5C049F515341FCA950D2C264414E10-0005-0006

<login><space><password><space>setparam 1600:00112233445566778899-ABCDE0810047

## Tracking on Demand

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
10990	UInt8	10	5	60	Tracking period
10991	UInt16	600	300	3600	Tracking duration

## I/O parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
50000	UInt8	1	0	3	Ignition <a href="#">Priority</a>
50001	UInt8	5	0	6	Ignition <a href="#">Operand</a>
50002	UInt8	0	0	1	Ignition High level
50003	UInt8	0	0	1	Ignition Low level
50004	UInt8	0	0	1	Ignition <a href="#">Event only</a>
50005	UInt16	10	0	65535	Ignition Average
7000	UInt8	0	0	10	Send SMS
8000	String	0	0	160	SMS Text
50010	UInt8	1	0	3	Movement <a href="#">Priority</a>
50011	UInt8	5	0	6	Movement <a href="#">Operand</a>
50012	UInt8	0	0	1	Movement High level
50013	UInt8	0	0	1	Movement Low level
50014	UInt8	0	0	1	Movement <a href="#">Event only</a>
50015	UInt16	1	0	65535	Movement Average
7001	UInt8	0	0	10	Send SMS
8001	String	0	0	160	SMS Text
50020	UInt8	1	0	3	Data Mode <a href="#">Priority</a>
50021	UInt8	3	0	6	Data Mode Operand
50022	UInt8	0	0	5	Data Mode High level
50023	UInt8	0	0	5	Data Mode Low level
50024	UInt8	0	0	1	Data Mode <a href="#">Event only</a>
7002	UInt8	0	0	10	Send SMS
8002	String	0	0	160	SMS Text
50030	UInt8	1	0	3	GSM Signal <a href="#">Priority</a>
50031	UInt8	3	0	6	GSM Signal <a href="#">Operand</a>

50032	UInt8	0	0	5	GSM Signal High level
50033	UInt8	0	0	5	GSM Signal Low level
50034	UInt8	0	0	1	GSM Signal <a href="#">Event only</a>
50035	UInt16	1	0	65535	GSM Signal Average
7003	UInt8	0	0	10	Send SMS
8003	String	0	0	160	SMS Text
50040	UInt8	1	0	3	Sleep <a href="#">Priority</a>
50041	UInt8	3	0	6	Sleep <a href="#">Operand</a>
50042	UInt8	0	0	2	Sleep High level
50043	UInt8	0	0	2	Sleep Low level
50044	UInt8	0	0	1	Sleep <a href="#">Event only</a>
7004	UInt8	0	0	10	Send SMS
8004	String	0	0	160	SMS Text
50050	UInt8	1	0	3	GNSS Status <a href="#">Priority</a>
50051	UInt8	3	0	6	GNSS Status <a href="#">Operand</a>
50052	UInt8	0	0	5	GNSS Status High level
50053	UInt8	0	0	5	GNSS Status Low level
50053	UInt8	0	0	1	GNSS Status <a href="#">Event only</a>
7005	UInt8	0	0	10	Send SMS
8005	String	0	0	160	SMS Text
50060	UInt8	0	0	3	GNSS PDOP <a href="#">Priority</a>
5061	UInt8	3	0	6	GNSS PDOP <a href="#">Operand</a>
5062	UInt16	0	0	1000	GNSS PDOP High level
5063	UInt16	0	0	1000	GNSS PDOP Low level
5064	UInt8	0	0	1	GNSS PDOP <a href="#">Event only</a>
5065	UInt16	10	0	65535	GNSS PDOP Average
7006	UInt8	0	0	10	Send SMS
8006	String	0	0	160	SMS Text
50070	UInt8	1	0	3	GNSS HDOP <a href="#">Priority</a>
50071	UInt8	3	0	6	GNSS HDOP <a href="#">Operand</a>
50072	UInt16	0	0	1000	GNSS HDOP High level
50073	UInt16	0	0	1000	GNSS HDOP Low level
50074	UInt8	0	0	1	GNSS HDOP <a href="#">Event only</a>
50075	UInt16	10	0	65535	GNSS HDOP Average
7007	UInt8	0	0	10	Send SMS
8007	String	0	0	160	SMS Text
50080	UInt8	1	0	3	External Voltage <a href="#">Priority</a>
50081	UInt8	6	0	6	External Voltage <a href="#">Operand</a>
50082	UInt16	1000	0	60000	External Voltage High level
50083	UInt16	0	0	60000	External Voltage Low level
50084	UInt8	0	0	1	External Voltage <a href="#">Event only</a>
50085	UInt16	10	0	65535	External Voltage Average
7008	UInt8	0	0	10	Send SMS
8008	String	0	0	160	SMS Text
50090	UInt8	1	0	3	Speed <a href="#">Priority</a>
50091	UInt8	3	0	6	Speed <a href="#">Operand</a>
50092	UInt16	0	0	300	Speed High level
50093	UInt16	0	0	300	Speed Low level
50094	UInt8	0	0	1	Speed <a href="#">Event only</a>
50095	UInt16	1	0	65535	Speed Average
7009	UInt8	0	0	10	Send SMS
8009	String	0	0	160	SMS Text
50100	UInt8	0	0	3	GSM Cell ID <a href="#">Priority</a>
50101	UInt8	3	0	6	GSM Cell ID <a href="#">Operand</a>
50102	UInt32	0	0	999999	GSM Cell ID High level
50103	UInt32	0	0	999999	GSM Cell ID Low level
50104	UInt8	0	0	1	GSM Cell ID <a href="#">Event only</a>
7010	UInt8	0	0	10	Send SMS

<b>8010</b>	String	0	0	160	SMS Text
<b>50110</b>	UInt8	0	0	3	GSM Area Code <a href="#">Priority</a>
<b>50111</b>	UInt8	3	0	6	GSM Area Code <a href="#">Operand</a>
<b>50112</b>	UInt32	0	0	999999	GSM Area Code High level
<b>50113</b>	UInt32	0	0	999999	GSM Area Code Low level
<b>50114</b>	UInt8	0	0	1	GSM Area Code <a href="#">Event only</a>
<b>7011</b>	UInt8	0	0	10	Send SMS
<b>8011</b>	String	0	0	160	SMS Text
<b>50120</b>	UInt8	1	0	3	Battery Voltage <a href="#">Priority</a>
<b>50121</b>	UInt8	3	0	6	Battery Voltage <a href="#">Operand</a>
<b>50122</b>	UInt16	0	0	5000	Battery Voltage High level
<b>50123</b>	UInt16	0	0	5000	Battery Voltage Low level
<b>50124</b>	UInt8	0	0	1	Battery Voltage <a href="#">Event only</a>
<b>50125</b>	UInt8	0	0	10	Battery Voltage Average
<b>7012</b>	UInt8	0	0	10	Send SMS
<b>8012</b>	String	0	0	160	SMS Text
<b>50130</b>	UInt8	1	0	3	Battery Current <a href="#">Priority</a>
<b>50131</b>	UInt8	3	0	6	Battery Current <a href="#">Operand</a>
<b>50132</b>	UInt16	0	0	5000	Battery Current High level
<b>50133</b>	UInt16	0	0	5000	Battery Current Low level
<b>50134</b>	UInt8	0	0	1	Battery Current <a href="#">Event only</a>
<b>50135</b>	UInt8	0	0	10	Battery Current Average
<b>7013</b>	UInt8	0	0	10	Send SMS
<b>8013</b>	String	0	0	160	SMS Text
<b>50140</b>	UInt8	0	0	3	Active GSM Operator <a href="#">Priority</a>
<b>50141</b>	UInt8	3	0	6	Active GSM Operator <a href="#">Operand</a>
<b>50142</b>	UInt32	0	0	999999	Active GSM Operator High level
<b>50143</b>	UInt32	0	0	999999	Active GSM Operator Low level
<b>50144</b>	UInt8	0	0	1	Active GSM Operator <a href="#">Event only</a>
<b>7014</b>	UInt8	0	0	10	Send SMS
<b>8014</b>	String	0	0	160	SMS Text
<b>50150</b>	UInt8	0	0	3	Trip Odometer <a href="#">Priority</a>
<b>50151</b>	UInt8	3	0	6	Trip Odometer <a href="#">Operand</a>
<b>50152</b>	UInt32	0	0	1000000	Trip Odometer High level
<b>50153</b>	UInt32	0	0	1000000	Trip Odometer Low level
<b>50154</b>	UInt8	0	0	1	Trip Odometer <a href="#">Event only</a>
<b>7015</b>	UInt8	0	0	10	Send SMS
<b>8015</b>	String	0	0	160	SMS Text
<b>50160</b>	UInt8	0	0	3	Total Odometer <a href="#">Priority</a>
<b>50161</b>	UInt8	3	0	6	Total Odometer <a href="#">Operand</a>
<b>50162</b>	UInt32	0	0	10000000	Total Odometer High level
<b>50163</b>	UInt32	0	0	10000000	Total Odometer Low level
<b>50164</b>	UInt8	0	0	1	Total Odometer <a href="#">Event only</a>
<b>7016</b>	UInt8	0	0	10	Send SMS
<b>8016</b>	String	0	0	160	SMS Text
<b>50200</b>	UInt8	0	0	3	Fuel Used GPS <a href="#">Priority</a>
<b>50201</b>	UInt8	3	0	6	Fuel Used GPS <a href="#">Operand</a>
<b>50202</b>	UInt32	0	0	1000000	Fuel Used GPS High level
<b>50203</b>	UInt32	0	0	1000000	Fuel Used GPS Low level
<b>50204</b>	UInt8	0	0	1	Fuel Used GPS <a href="#">Event only</a>
<b>50205</b>	UInt16	1	0	65535	Fuel Used GPS Average
<b>7020</b>	UInt8	0	0	10	Send SMS
<b>8020</b>	String	0	0	160	SMS Text
<b>50210</b>	UInt8	0	0	3	Fuel Rate GPS <a href="#">Priority</a>
<b>50211</b>	UInt8	3	0	6	Fuel Rate GPS <a href="#">Operand</a>
<b>50212</b>	UInt32	0	0	1000000	Fuel Rate GPS High level
<b>50213</b>	UInt32	0	0	1000000	Fuel Rate GPS Low level
<b>50214</b>	UInt8	0	0	1	Fuel Rate GPS <a href="#">Event only</a>

50215	Uint16	1	0	65535	Fuel Rate GPS Average
7021	Uint8	0	0	10	Send SMS
8021	String	0	0	160	SMS Text
50220	Uint8	0	0	3	Axis X <a href="#">Priority</a>
50221	Uint8	3	0	6	Axis X <a href="#">Operand</a>
50222	Uint16	0	-8000	8000	Axis X High level
50223	Uint16	0	-8000	8000	Axis X Low level
50224	Uint8	0	0	1	Axis X <a href="#">Event only</a>
50225	Uint16	1	0	65535	Axis X Average
7022	Uint8	0	0	10	Send SMS
8022	String	0	0	160	SMS Text
50230	Uint8	0	0	3	Axis Y <a href="#">Priority</a>
50231	Uint8	3	0	6	Axis Y <a href="#">Operand</a>
50232	Uint16	0	-8000	8000	Axis Y High level
50233	Uint16	0	-8000	8000	Axis Y Low level
50234	Uint8	0	0	1	Axis Y <a href="#">Event only</a>
50235	Uint16	1	0	65535	Axis Y Average
7023	Uint8	0	0	10	Send SMS
8023	String	0	0	160	SMS Text
50240	Uint8	0	0	3	Axis Z <a href="#">Priority</a>
50241	Uint8	3	0	6	Axis Z <a href="#">Operand</a>
50242	Uint16	0	-8000	8000	Axis Z High level
50243	Uint16	0	-8000	8000	Axis Z Low level
50244	Uint8	0	0	1	Axis Z <a href="#">Event only</a>
50245	Uint16	1	0	65535	Axis Z Average
7024	Uint8	0	0	10	Send SMS
8024	String	0	0	160	SMS Text
50250	Uint8	0	0	3	ICCID <a href="#">Priority</a>
50251	Uint8	3	0	6	ICCID <a href="#">Operand</a>
50254	Uint8	0	0	1	ICCID <a href="#">Event only</a>
7069	Uint8	0	0	10	Send SMS
8069	String	0	0	160	SMS Text
7135	Uint8	0	0	10	Send SMS
8135	String	0	0	160	SMS Text
50510	Uint8	0	0	3	Eco Score <a href="#">Priority</a>
50511	Uint8	3	0	6	Eco Score <a href="#">Operand</a>
50512	Uint8	0	0	1	Eco Score High level
50513	Uint8	0	0	1	Eco Score Low level
50514	Uint8	0	0	1	Eco Score <a href="#">Event only</a>
7220	Uint8	0	0	10	Send SMS
8220	String	0	0	160	SMS Text
50690	Uint8	0	0	3	Battery level % <a href="#">Priority</a>
50691	Uint8	0	0	6	Battery level % <a href="#">Operand</a>
50692	Uint8	0	0	100	Battery level % High level
50693	Uint8	0	0	100	Battery level % Low level
50694	Uint8	0	0	1	Battery level % <a href="#">Event only</a>
50695	Uint16	1	0	65535	Battery level % Average
7243	Uint8	0	0	10	Send SMS
8243	String	0	0	160	SMS Text
50720	Uint8	0	0	3	BT Status <a href="#">Priority</a>
50721	Uint8	5	0	6	BT Status <a href="#">Operand</a>
50722	Uint8	0	0	4	BT Status High level
50723	Uint8	0	0	3	BT Status Low level
50724	Uint8	0	0	1	BT Status <a href="#">Event only</a>
50725	Uint16	1	0	65535	BT Status Average
7250	Uint8	0	0	10	Send SMS
8250	String	0	0	160	SMS Text



# OBD II (Bluetooth)

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
40100	Uint8	0	0	3	0 - Disabled 1 - Low 2 - High 3 - Panic	Priority
40101	Uint8	3	0	6	0 - On range exit 1 - On range entrance 2 - On both 3 - Monitoring 4 - Hysteresis 5 - On change 6 - On delta change	Operand
40102	Uint8	0	0	255	High value	High level
40103	Uint8	0	0	255	Low value	Low level
40104	Uint8	0	0	1	0 - Disable 1 - Enable	Event only
7038	Uint8	0	0	10	Phone number	Send SMS to
8038	String	"Number of DTC"	0	160	Text	SMS text

Similarly to a group defined in the upper table:

Name	Parameter						
	Priority	Low level	High level	Event only	Operand	Send SMS to	SMS text
Number Of DTC	40100	40103	40102	40104	40101	7038	8038
Engine Load	40110	40113	40112	40114	40111	7039	8039
Coolant Temperature	40120	40123	40122	40124	40121	7040	8040
Short Fuel Trim	40130	40133	40132	40134	40131	7041	8041
Fuel Pressure	40140	40143	40142	40144	40141	7042	8042
Intake Map	40150	40153	40152	40154	40151	7043	8043
Engine RPM	40160	40163	40162	40164	40161	7044	8044
Vehicle speed	40170	40173	40172	40174	40171	7045	8045
Timing advance	40180	40183	40182	40184	40181	7046	8046
Intake air temperature	40190	40193	40192	40194	40191	7047	8047
MAF	40200	40203	40202	40204	40201	7048	8048
Throttle position	40210	40213	40212	40214	40211	7049	8049
Run time since engine start	40220	40223	40222	40224	40221	7050	8050
Distance traveled MIL on	40230	40233	40232	40234	40231	7051	8051
Relative fuel rail pressure	40240	40243	40242	40244	40241	7052	8052
Direct fuel rail pressure	40250	40253	40252	40254	40251	7053	8053
Commanded EGR	40260	40263	40262	40264	40261	7054	8054
EGR error	40270	40273	40272	40274	40271	7055	8055
Fuel level	40280	40283	40282	40284	40281	7056	8056
Distance traveled since codes clear	40290	40293	40292	40294	40291	7057	8057
Barometric pressure	40300	40303	40302	40304	40301	7058	8058
Control module voltage	40310	40313	40312	40314	40311	7059	8059
Absolute load value	40320	40323	40322	40324	40321	7060	8060
Ambient air temperature	40330	40333	40332	40334	40331	7061	8061
Time run with MIL on	40340	40343	40342	40344	40341	7062	8062
Time since trouble codes cleared	40350	40353	40352	40354	40351	7063	8063
Fuel Type	40560	40563	40562	40564	40561	7633	8633
Absolute fuel rail pressure	40360	40363	40362	40364	40361	7064	8064
Hybrid battery pack remaining life	40370	40373	40372	40374	40371	7065	8065
Engine oil temperature	40380	40383	40382	40384	40381	7066	8066
Fuel injection timing	40390	40393	40392	40394	40391	7067	8067
Fuel Rate	40400	40403	40402	40404	40401	7068	8068
Command Equivalence Ratio	40460	40463	40462	40464	40461	7524	8524
Intake MAP (2 Bytes)	40470	40473	40472	40474	40471	7525	8525
Hybrid Vehicle System Voltage	40480	40483	40482	40484	40481	7526	8526
Hybrid Vehicle System Current	40490	40493	40492	40494	40491	7527	8527

<b>Fault Codes</b>	<b>40420</b>	<b>-</b>	<b>-</b>	<b>40424</b>	<b>40421</b>	<b>7264</b>	<b>8264</b>
<b>VIN</b>	<b>40410</b>	<b>-</b>	<b>-</b>	<b>40414</b>	<b>40411</b>	<b>7241</b>	<b>8241</b>
<b>OEM Total Mileage</b>	<b>40430</b>	<b>40433</b>	<b>40432</b>	<b>40434</b>	<b>40431</b>	<b>7522</b>	<b>8522</b>
<b>OEM Fuel Level</b>	<b>40440</b>	<b>40443</b>	<b>40442</b>	<b>40444</b>	<b>40441</b>	<b>7529</b>	<b>8529</b>
<b>OEM Remaining Distance</b>	<b>40520</b>	<b>40523</b>	<b>40522</b>	<b>40524</b>	<b>40521</b>	<b>7628</b>	<b>8628</b>
<b>OEM Battery Charge State</b>	<b>40570</b>	<b>40573</b>	<b>40572</b>	<b>40574</b>	<b>40571</b>	<b>7634</b>	<b>8634</b>
<b>OEM Battery Charge Level</b>	<b>40580</b>	<b>40583</b>	<b>40582</b>	<b>40584</b>	<b>40581</b>	<b>7635</b>	<b>8635</b>