

FMB010 Teltonika Data Sending Parameters ID

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Document updated according firmware FMB.Ver.03.18.18.Rev.50 and newer.

FMB AVL ID's consist of these **parameters groups**:

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- [2 Eventual I/O elements](#)
- [3 BLE Sensors I/O elements](#)

Permanent I/O elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					

239	Ignition	1	Unsigned	0	1	-	-	0 - Ignition Off 1 - Ignition On	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU12 5 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O Elements
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80	Data Mode	1	Unsigned	0	5	-	-	0 - Home On Stop 1 - Home On Moving 2 - Roaming On Stop 3 - Roaming On Moving 4 - Unknown On Stop 5 - Unknown On Moving	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O Elements
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200	Sleep Mode	1	Unsigned	0	4	-	-	0 - No Sleep 1 - GPS Sleep 2 - Deep Sleep 3 - Online Sleep 4 - Ultra Sleep	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O Elements
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69	GNSS Status	1	Unsigned	0	3	-	-	0 - GNSS OFF 1 - GNSS ON with fix 2 - GNSS ON without fix 3 - GNSS sleep	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O Elements
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							FMBXX	
							X	
							FMB00	
							1	
							FMC00	
							1	
							FMB01	
							0	
							FMB12	
							0	
							FMB12	
							2	
							FMB12	
							5	
							FMB13	
							0	
							FMB14	
							0	
							FMB15	
							0	
							FMC15	
							0	
							FMM1	
							50	
							FMB92	
							0	
							FMB96	
							2	
							FMB96	
							4	
							FM300	
							1	
							FMB20	
							2	
							FMB20	
							4	
							FMB20	
							6	
							FMT10	
							0	
							MTB10	
							0	
							FMC80	
							0	
							FMM8	
							00	
							FMM8	
							0A	

Permanent I/O elements

68	Battery Current	2	Unsigned	0	65535	0.001	A	Current	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMB14 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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1	Digital Input 1	1	Unsigned	0	1	-	-	Logic: 0/1	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FMB20 2 FMB20 4 FMB20 6 MTB10 0	Permanent I/O elements
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179	Digital Output 1	1	Unsigned	0	1	-	-	Logic: 0/1	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FMB20 2 FMB20 4 FMB20 6 MTB10 0	Permanent I/O elements
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12	Fuel Used GPS	4	Unsigned	0	4294967295	0.001	1	Fuel Used	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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Index	Variable Name	Size	Unit	Min	Max	Resolution	Scale	Description	Address
13	Fuel Rate GPS	2	Unsigned	0	32767	0.01	1/100km	Average Fuel Use	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A

18 Axis Y 2 Signed -8000 8000 - mG Y axis value

FMBXX
X
[FMB00](#)
[1](#)
[FMC00](#)
[1](#)
[FMB01](#)
[0](#)
[FMB00](#)
[2](#)
[FMB02](#)
[0](#)
[FMB00](#)
[3](#)
[FMB11](#)
[0](#)
[FMB12](#)
[0](#)
[FMB12](#)
[2](#)
[FMB12](#)
[5](#)
[FMU12](#)
[5](#)
[FMB14](#)
[0](#)
[FMB15](#)
[0](#)
[FMC15](#)
[0](#)
[FMM1](#)
[50](#)
[FMB90](#)
[0](#)
[FMB92](#)
[0](#)
[FMB96](#)
[2](#)
[FMB96](#)
[4](#)
[FM300](#)
[1](#)
[FMB20](#)
[2](#)
[FMB20](#)
[4](#)
[FMB20](#)
[6](#)
[FMT10](#)
[0](#)
[MTB10](#)
[0](#)
[FMP10](#)
[0](#)
[MSP50](#)
[0](#)
[FMC80](#)
[0](#)
[FMM8](#)
[00](#)
[FMM8](#)
[0A](#)

Permanent I/O
elements

19 Axis Z 2 Signed -8000 8000 - mG Z axis value

FMBXX
X
[FMB00](#)
[1](#)
[FMC00](#)
[1](#)
[FMB01](#)
[0](#)
[FMB00](#)
[2](#)
[FMB02](#)
[0](#)
[FMB00](#)
[3](#)
[FMB11](#)
[0](#)
[FMB12](#)
[0](#)
[FMB12](#)
[2](#)
[FMB12](#)
[5](#)
[FMU12](#)
[5](#)
[FMB14](#)
[0](#)
[FMB15](#)
[0](#)
[FMC15](#)
[0](#)
[FMM1](#)
[50](#)
[FMB90](#)
[0](#)
[FMB92](#)
[0](#)
[FMB96](#)
[2](#)
[FMB96](#)
[4](#)
[FM300](#)
[1](#)
[FMB20](#)
[2](#)
[FMB20](#)
[4](#)
[FMB20](#)
[6](#)
[FMT10](#)
[0](#)
[MTB10](#)
[0](#)
[FMP10](#)
[0](#)
[MSP50](#)
[0](#)
[FMC80](#)
[0](#)
[FMM8](#)
[00](#)
[FMM8](#)
[0A](#)

Permanent I/O
elements

									FMBXX X FMB90 0 FMB91 0 FMB92 0 FMC92 0 FMM9 20 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMB64 0 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMB64 0	
2	Digital Input 2	1	Unsigned	0	1	-	-	Logic: 0/1		Permanent I/O elements
3	Digital Input 3	1	Unsigned	0	1	-	-	Logic: 0/1		Permanent I/O elements

[illegible]

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[illegible]

[illegible]

214	LLS 5 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS485	FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5 FMU12	Permanent I/O elements
215	LLS 5 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS485	FMC12 5 FMM1 25 FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15	Permanent I/O elements
15	Eco Score	2	Unsign ed	0	65535	0.01	-	Average amount of events on some distance	FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements

									FM300 1 FMU12 5 FMU12 6 FMU13 0 FMC12 5 FMC13 0 FMC15 0 FMM1 25 FMM1 30 FMM1 50 FMC00 1 FMM0 01 FMC80 0 FMM8 00 FMC88 0 FMM8 80 FMM8 0A FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 0 FMU13 0 FMC13 0 FMM1 30	
237	Network Type	1	Unsigned	0	1	-	-	0 - 3G 1 - GSM 2 - 4G 3 - LTE CAT M1 4 - LTE CAT NB1 99 - Unknown	Permanent I/O elements	
8	Authorized iButton	8	Unsigned	0	0xffffffff	-	-	If ID is shown in this I/O that means that attached iButton is in iButton List	Permanent I/O elements	
4	Pulse Counter Din1	4	Unsigned	0	4294967295	-	-	Counts pulses, count is reset when records are saved	Permanent I/O elements	
5	Pulse Counter Din2	4	Unsigned	0	4294967295	-	-	Counts pulses, count is reset when records are saved	Permanent I/O elements	

263	BT Status	1	Unsigned	0	4	-	-	0 - BT is disabled 1 - BT Enabled, not device connected 2 - Device connected, BTv3 Only 3 - Device connected, BLE only 4 - Device connected, BLE + BT	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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										FMBXX X FMB001 0 FMB110 0 FMB120 0 FMB122 5 FMU125 5 FMC125 5 FMM125 FMB130 0 FMU130 0 FMC130 0 FMM130 FMB140 0 FMB150 0 FMC150 0 FMM150 FMB900 0 FMB920 0 FMB962 4 FMB964 FM3001 1 FMB202 4 FMB204 6 FMT100 0 MTB100 0 FMB125 5 FMB125 5 FMU125 5 FMC125 5 FMM125 25 FMB125 5 FMB125 5 FMU125 5 FMC125 5 FMM125 25	
264	Barcode ID	Variable	ASCII	0	32	-	-	Barcode ID		Permanent I/O elements	

280	Escort LLS Battery Voltage #4	2	Unsigned	0	65535	0.01	V	Battery Voltage	FMB125	Permanent I/O elements
									FMB125	
									FMU125	
									FMC125	
									FMM125	
									FMBXX	
									FMB001	
									FMC001	
									FMB010	
									FMB110	
									FMB120	
									FMB120	
									FMB122	
									FMB125	
									FMU125	
									FMC125	
									FMM125	
									FMB130	
									FMU130	
									FMC130	
303	Instant Movement	1	Unsigned	0	1	-	-	Logic: 0/1 returns movement value	FMM130	Permanent I/O elements
									FMB140	
									FMB150	
									FMC150	
									FMM150	
									FMB900	
									FMB920	
									FMB962	
									FMB964	
									FM3001	
									FMB202	
									FMB204	
									FMB206	
									FMT100	
									MTB100	
									FMB125	
									FMB125	
									FMU125	
327	UL202-02 Sensor Fuel level	2	Signed	-150	32767	0.1	mm	UL202-02 Sensor Fuel level	FMC125	Permanent I/O elements
									FMM125	

483	UL202-02 Sensor Status	1	Unsigned	0	255	-	-	UL202-02 sensor status codes	FMB125 FMB125 FMU125 FMC125 FMM125 FMBXX X FMB130 FMU130 FMC130 FMC150 FMM130 FMB130 FMU130 FMC130 FMM130 FMB140	Permanent I/O elements
380	Digital output 3	1	Unsigned	0	1	-	-	Logic: 0/1	FMB130 FMU130 FMC130 FMC150 FMM130 FMB130 FMU130 FMC130 FMM130 FMB140	Permanent I/O elements
381	Ground Sense	1	Unsigned	0	1	-	-	Logic: 0/1	FMC130 FMM130 FMB140	Permanent I/O elements

387	ISO6709 Coordinates	34	HEX	0	0x7fffff ffffffff	-	-	ISO6709 Coordinates Latitude, Longitude (in Degrees, Minutes and Seconds) and Altitude: IO value format: ±DDMMSS.SSSS±DDMMSS.SSSS±AAA.AAA/	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB12 5 FMC12 5 FMB13 0 FMB13 0 FMC13 0 FMB14 0 FMB15 0 FMC13 50 FMM1 FMB90 0 FMB92 0 FMB91 0 FMB96 2 FMB96 4 FMB300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 FMB14 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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										FMBXX X FMU125 FMU126 FMU130 FMC001 FMC125 FMC130 FMM001 FMM125 FMM130 FMC150 FMM150 FMC800 FMM800 FMM80A	
636	UMTS/LTE Cell ID	4	Unsigned	0	0xFFFF FFFF	-	-			Permanent I/O elements	
403	Driver Name	35	Unsigned	-	-	-	-	Driver name extracted from card, displayed without delimiters (\$ signs)	FMBXX X FMU126	Permanent I/O elements	
404	Driver card license type	1	Unsigned	0	8	-	-	None - 0 B.1 license type - 1 B.2 license type - 2 B.3 license type - 3 B.4 license type - 4 T.1 license type - 5 T.2 license type - 6 T.3 license type - 7 T.4 license type - 8	FMBXX X FMU126	Permanent I/O elements	
405	Driver Gender	1	Unsigned	0	2	-	-	None - 0 Male - 1 Female - 2	FMBXX X FMU126	Permanent I/O elements	
406	Driver Card ID	4	Unsigned	0	42949 67295	-	-	None - 0 Male - 1 Female - 2	FMBXX X FMU126	Permanent I/O elements	
407	Driver card expiration date	1	Unsigned	0	9999	-	-		FMBXX X FMU126	Permanent I/O elements	
408	Driver Card place of issue	4	Unsigned	0	65535	-	-	Extracted from card	FMBXX X FMU126	Permanent I/O Elements	
409	Driver Status Event	1	Unsigned	0	2	-	-	Registered - 0 Deregistered - 1 Swapping - 2	FMBXX X FMU126	Permanent I/O elements	
329	AIN Speed	2	Unsigned	0	65535	-	-		MSP500	Permanent I/O elements	
500	MSP500 vendor name	40	ASCII	0	40	-	-	Name of the integrator who installed the device	MSP500	Permanent I/O elements	
501	MSP500 vehicle number	40	ASCII	0	40	-	-	Vehicle number on which the device is installed	MSP500	Permanent I/O elements	
502	MSP500 speed sensor	1	unsigned	0	1	-	-	Status of the speed sensor	MSP500	Permanent I/O elements	
637	Wake Reason	1	Unsigned	0	1	-	-	True if device was woken by RTC alarm	FMB965	Permanent I/O elements	

Eventual I/O elements

Property ID in AVL packet	Property Name	Byte	Type	Value range		Multiplier	Units	Description	ECU Support	Parameter Group
				Min	Max				FM05XX 1200000 1200001 1200002 1200003 1200004 1200005 1200006 1200007 1200008 1200009 1200010 1200011 1200012 1200013 1200014 1200015 1200016 1200017 1200018 1200019 1200020 1200021 1200022 1200023 1200024 1200025 1200026 1200027 1200028 1200029 1200030 1200031 1200032 1200033 1200034 1200035 1200036 1200037 1200038 1200039 1200040 1200041 1200042 1200043 1200044 1200045 1200046 1200047 1200048 1200049 1200050 1200051 1200052 1200053 1200054 1200055 1200056 1200057 1200058 1200059 1200060 1200061 1200062 1200063 1200064 1200065 1200066 1200067 1200068 1200069 1200070 1200071 1200072 1200073 1200074 1200075 1200076 1200077 1200078 1200079 1200080 1200081 1200082 1200083 1200084 1200085 1200086 1200087 1200088 1200089 1200090 1200091 1200092 1200093 1200094 1200095 1200096 1200097 1200098 1200099 1200100 1200101 1200102 1200103 1200104 1200105 1200106 1200107 1200108 1200109 1200110 1200111 1200112 1200113 1200114 1200115 1200116 1200117 1200118 1200119 1200120 1200121 1200122 1200123 1200124 1200125 1200126 1200127 1200128 1200129 1200130 1200131 1200132 1200133 1200134 1200135 1200136 1200137 1200138 1200139 1200140 1200141 1200142 1200143 1200144 1200145 1200146 1200147 1200148 1200149 1200150 1200151 1200152 1200153 1200154 1200155 1200156 1200157 1200158 1200159 1200160 1200161 1200162 1200163 1200164 1200165 1200166 1200167 1200168 1200169 1200170 1200171 1200172 1200173 1200174 1200175 1200176 1200177 1200178 1200179 1200180 1200181 1200182 1200183 1200184 1200185 1200186 1200187 1200188 1200189 1200190 1200191 1200192 1200193 1200194 1200195 1200196 1200197 1200198 1200199 1200200 1200201 1200202 1200203 1200204 1200205 1200206 1200207 1200208 1200209 1200210 1200211 1200212 1200213 1200214 1200215 1200216 1200217 1200218 1200219 1200220 1200221 1200222 1200223 1200224 1200225 1200226 1200227 1200228 1200229 1200230 1200231 1200232 1200233 1200234 1200235 1200236 1200237 1200238 1200239 1200240 1200241 1200242 1200243 1200244 1200245 1200246 1200247 1200248 1200249 1200250 1200251 1200252 1200253 1200254 1200255 1200256 1200257 1200258 1200259 1200260 1200261 1200262 1200263 1200264 1200265 1200266 1200267 1200268 1200269 1200270 1200271 1200272 1200273 1200274 1200275 1200276 1200277 1200278 1200279 1200280 1200281 1200282 1200283 1200284 1200285 1200286 1200287 1200288 1200289 1200290 1200291 1200292 1200293 1200294 1200295 1200296 1200297 1200298 1200299 1200300 1200301 1200302 1200303 1200304 1200305 1200306 1200307 1200308 1200309 1200310 1200311 1200312 1200313 1200314 1200315 1200316 1200317 1200318 1200319 1200320 1200321 1200322 1200323 1200324 1200325 1200326 1200327 1200328 1200329 1200330 1200331 1200332 1200333 1200334 1200335 1200336 1200337 1200338 1200339 1200340 1200341 1200342 1200343 1200344 1200345 1200346 1200347 1200348 1200349 1200350 1200351 1200352 1200353 1200354 1200355 1200356 1200357 1200358 1200359 1200360 1200361 1200362 1200363 1200364 1200365 1200366 1200367 1200368 1200369 1200370 1200371 1200372 1200373 1200374 1200375 1200376 1200377 1200378 1200379 1200380 1200381 1200382 1200383 1200384 1200385 1200386 1200387 1200388 1200389 1200390 1200391 1200392 1200393 1200394 1200395 1200396 1200397 1200398 1200399 1200400 1200401 1200402 1200403 1200404 1200405 1200406 1200407 1200408 1200409 1200410 1200411 1200412 1200413 1200414 1200415 1200416 1200417 1200418 1200419 1200420 1200421 1200422 1200423 1200424 1200425 1200426 1200427 1200428 1200429 1200430 1200431 1200432 1200433 1200434 1200435 1200436 1200437 1200438 1200439 1200440 1200441 1200442 1200443 1200444 1200445 1200446 1200447 1200448 1200449 1200450 1200451 1200452 1200453 1200454 1200455 1200456 1200457 1200458 1200459 1200460 1200461 1200462 1200463 1200464 1200465 1200466 1200467 1200468 1200469 1200470 1200471 1200472 1200473 1200474 1200475 1200476 1200477 1200478 1200479 1200480 1200481 1200482 1200483 1200484 1200485 1200486 1200487 1200488 1200489 1200490 1200491 1200492 1200493 1200494 1200495 1200496 1200497 1200498 1200499 1200500 1200501 1200502 1200503 1200504 1200505 1200506 1200507 1200508 1200509 1200510 1200511 1200512 1200513 1200514 1200515 1200516 1200517 1200518 1200519 1200520 1200521 1200522 1200523 1200524 1200525 1200526 1200527 1200528 1200529 1200530 1200531 1200532 1200533 1200534 1200535 1200536 1200537 1200538 1200539 1200540 1200541 1200542 1200543 1200544 1200545 1200546 1200547 1200548 1200549 1200550 1200551 1200552 1200553 1200554 1200555 1200556 1200557 1200558 1200559 1200560 1200561 1200562 1200563 1200564 1200565 1200566 1200567 1200568 1200569 1200570 1200571 1200572 1200573 1200574 1200575 1200576 1200577 1200578 1200579 1200580 1200581 1200582 1200583 1200584 1200585 1200586 1200587 1200588 1200589 1200590 1200591 1200592 1200593 1200594 1200595 1200596 1200597 1200598 1200599 1200600 1200601 1200602 1200603 1200604 1200605 1200606 1200607 1200608 1200609 1200610 1200611 1200612 1200613 1200614 1200615 1200616 1200617 1200618 1200619 1200620 1200621 1200622 1200623 1200624 1200625 1200626 1200627 1200628 1200629 1200630 1200631 1200632 1200633 1200634 1200635 1200636 1200637 1200638 1200639 1200640 1200641 1200642 1200643 1200644 1200645 1200646 1200647 1200648 1200649 1200650 1200651 1200652 1200653 1200654 1200655 1200656 1200657 1200658 1200659 1200660 1200661 1200662 1200663 1200664 1200665 1200666 1200667 1200668 1200669 1200670 1200671 1200672 1200673 1200674 1200675 1200676 1200677 1200678 1200679 1200680 1200681 1200682 1200683 1200684 1200685 1200686 1200687 1200688 1200689 1200690 1200691 1200692 1200693 1200694 1200695 1200696 1200697 1200698 1200699 1200700 1200701 1200702 1200703 1200704 1200705 1200706 1200707 1200708 1200709 1200710 1200711 1200712 1200713 1200714 1200715 1200716 1200717 1200718 1200719 1200720 1200721 1200722 1200723 1200724 1200725 1200726 1200727 1200728 1200729 1200730 1200731 1200732 1200733 1200734 1200735 1200736 1200737 1200738 1200739 1200740 1200741 1200742 1200743 1200744 1200745 1200746 1200747 1200748 1200749 1200750 1200751 1200752 1200753 1200754 1200755 1200756 1200757 1200758 1200759 1200760 1200761 1200762 1200763 1200764 1200765 1200766 1200767 1200768 1200769 1200770 1200771 1200772 1200773 1200774 1200775 1200776 1200777 1200778 1200779 1200780 1200781 1200782 1200783 1200784 1200785 1200786 1200787 1200788 1200789 1200790 1200791 1200792 1200793 1200794 1200795 1200796 1200797 1200798 1200799 1200800 1200801 1200802 1200803 1200804 1200805 1200806 1200807 1200808 1200809 1200810 1200811 1200812 1200813 1200814 1200815 1200816 1	

96	Confidence score 18	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0001	Eventual IO elements
									24/0001	
									24/0002	
									24/0003	
									24/0004	
									24/0005	
									24/0006	
									24/0007	
									24/0008	
									24/0009	
97	Confidence score 19	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0010	Eventual IO elements
									24/0010	
									24/0011	
									24/0012	
									24/0013	
									24/0014	
									24/0015	
									24/0016	
									24/0017	
									24/0018	
98	Confidence score 20	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0019	Eventual IO elements
									24/0019	
									24/0020	
									24/0021	
									24/0022	
									24/0023	
									24/0024	
									24/0025	
									24/0026	
									24/0027	
99	Confidence score 21	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0028	Eventual IO elements
									24/0028	
									24/0029	
									24/0030	
									24/0031	
									24/0032	
									24/0033	
									24/0034	
									24/0035	
									24/0036	
153	Confidence score 22	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0037	Eventual IO elements
									24/0037	
									24/0038	
									24/0039	
									24/0040	
									24/0041	
									24/0042	
									24/0043	
									24/0044	
									24/0045	
154	Confidence score 23	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0046	Eventual IO elements
									24/0046	
									24/0047	
									24/0048	
									24/0049	
									24/0050	
									24/0051	
									24/0052	
									24/0053	
									24/0054	
190	Confidence score 24	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0055	Eventual IO elements
									24/0055	
									24/0056	
									24/0057	
									24/0058	
									24/0059	
									24/0060	
									24/0061	
									24/0062	
									24/0063	
191	Confidence score 25	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0064	Eventual IO elements
									24/0064	
									24/0065	
									24/0066	
									24/0067	
									24/0068	
									24/0069	
									24/0070	
									24/0071	
									24/0072	
192	Confidence score 26	1	Unassigned	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FMHXXN 24/0073	Eventual IO elements
									24/0073	
									24/0074	
									24/0075	
									24/0076	
									24/0077	
									24/0078	
									24/0079	
									24/0080	
									24/0081	

[illegible]

14	IICD2	8	Unsigned	0	0aFFFFFFFFFFFFFF	-	-	Value of I2C IICD2_LSB	Eventual I/O elements
243	Cross driving event duration	2	Unsigned	0	65535	-	ms	Duration of event that did generate Cross driving	Eventual I/O elements
236	Alarm	1	Unsigned	0	1	-	-	0 - Reserved 1 - Alarm event occurred	Eventual I/O elements
238	EcoMaximum	8	Unsigned	0	0aFFFFFFFFFFFFFF	-	-	Element stores maximum accelerometer values in mg on all axis during Eco driving event 8 Bytes 28 Zero 28 - X axis 28 - Y axis 28 - Z axis	Eventual I/O elements
239	EcoAverage	8	Unsigned	0	0aFFFFFFFFFFFFFF	-	-	Element stores average accelerometer values in mg on all axis during Eco driving event 8 Bytes 28 Zero 28 - X axis 28 - Y axis 28 - Z axis	Eventual I/O elements
240	EcoDuration	2	Unsigned	0	65535	-	ms	Duration of Eco driving event in milliseconds 1 - Ignition ON 2 - Driving 3 - Ignition OFF	Eventual I/O elements
243	Driving State	1	Unsigned	0	3	-	-	1 - Ignition ON 2 - Driving 3 - Ignition OFF	Eventual I/O elements
244	Driving Records	2	Unsigned	0	65535	-	-	Number of Records between Ignition ON and Ignition OFF	Eventual I/O elements
391	Private mode	1	Unsigned	0	255	-	-	Private mode state 0 - Private mode off 1 - Private mode on	Eventual I/O elements
317	Crash event counter	1	Unsigned	0	255	-	-	Connects trace with specific eventual crash record	Eventual I/O elements
449	Ignition On Counter	4	Unsigned	0	2147483647	-	s	0 - Disable 1 - Enable	Eventual I/O elements

BLE Sensors I/O elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					

25	BLE Temperature #1	2	Signe d	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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26	BLE Temperature #2	2	Signe d	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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27	BLE Temperature #3	2	Signe d	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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[illegible]

										FMBX	
										XX	
										FMB0	
										01	
										FMC0	
										01	
										FMB0	
										10	
										FMB0	
										02	
										FMB0	
										20	
										FMB0	
										03	
										FMB1	
										10	
										FMB1	
										20	
										FMB1	
										22	
										FMB1	
										25	
										FMU1	
										25	
										FMC1	
										25	
										FMB1	
										30	
										FMU1	
										30	
										FMC1	
										30	
										FMB1	
										40	
										FMB1	
										50	
29	BLE Battery #1	1	Unsigned	0	100	-	%	Battery level of sensor #1		FMC1	Bluetooth
			ned							50	Low Energy
										FMM	
										150	
										FMB9	
										00	
										FMB9	
										20	
										FMB9	
										10	
										FMB9	
										62	
										FMB9	
										64	
										FM30	
										01	
										FMB2	
										02	
										FMB2	
										04	
										FMB2	
										06	
										FMT1	
										00	
										MTB1	
										00	
										FMP1	
										00	
										FMB1	
										40	
										MSP5	
										00	
										FMC8	
										00	
										FMM	
										800	
										FMM	
										80A	

20	BLE Battery #2	1	Unsigned	0	100	-	%	Battery level of sensor #2	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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									FMBX XX	
									FMB001	
									FMC001	
									FMB010	
									FMB002	
									FMB020	
									FMB003	
									FMB110	
									FMB120	
									FMB122	
									FMB125	
									FMU125	
									FMC125	
									FMB130	
									FMU130	
									FMC130	
									FMB140	
									FMB150	
									FMC150	
									FMM150	
									FMB900	
									FMB920	
									FMB910	
									FMB962	
									FMB964	
									FM3001	
									FMB202	
									FMB204	
									FMB206	
									FMT100	
									MTB100	
									FMP100	
									FMB140	
									MSP500	
									FMC800	
									FMM800	
									FMM80A	
22	BLE Battery #3	1	Unsigned	0	100	-	%	Battery level of sensor #3		Bluetooth Low Energy

									FMBX XX	
									FMB001	
									FMC001	
									FMB010	
									FMB002	
									FMB020	
									FMB003	
									FMB110	
									FMB120	
									FMB122	
									FMB125	
									FMU125	
									FMC125	
									FMB130	
									FMU130	
									FMC130	
									FMB140	
									FMB150	
									FMC150	
									FMM150	
									FMB900	
									FMB920	
									FMB910	
									FMB962	
									FMB964	
									FM3001	
									FMB202	
									FMB204	
									FMB206	
									FMT100	
									MTB100	
									FMP100	
									FMB140	
									MSP500	
									FMC800	
									FMM800	
									FMM80A	
23	BLE Battery #4	1	Unsigned	0	100	-	%	Battery level of sensor #4		Bluetooth Low Energy

									FMBX XX FMB001 FMC001 FMB010 FMB002 FMB020 FMB003 FMB110 FMB120 FMB122 FMB125 FMU125 FMC125 FMB130 FMU130 FMC130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB910 FMB962 FMB964 FM3001 FMB202 FMB204 FMB206 FMT100 MTB100 FMP100 FMB140 MSP500 FMC800 FMM800 FMM80A	
270	BLE Fuel Level #1	2	Unsigned	0	65535	-	-	Fuel Level	FMC150 FMM150 FMB900 FMB920 FMB910 FMB962 FMB964 FM3001 FMB202 FMB204 FMB206 FMT100 MTB100 FMP100 FMB140 MSP500 FMC800 FMM800 FMM80A	Bluetooth Low Energy

