

FMB640 Teltonika Data Sending Parameters ID

From Wiki Knowledge Base | Teltonika GPS

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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	FMB640 FMC640 FMM640	Permanent I/O elements
240	Movement	1	Unsigned	0	1	-	-	0 – Movement Off 1 – Movement On	FMB640 FMC640 FMM640	Permanent I/O elements
22	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	FMB640 FMC640 FMM640	Permanent I/O elements
21	GSM Signal	1	Unsigned	0	5	-	-	Value in range 1-5	FMB640 FMC640 FMM640	Permanent I/O elements
200	Sleep Mode	1	Unsigned	0	1	-	-	Normal mode Deep Sleep	FMB640 FMC640 FMM640	Permanent I/O elements
71	GNSS Status	1	Unsigned	0	5	-	-	0 - GNSS OFF 1 - GNSS ON, no GPS antenna 2 - GNSS ON, without fix 3 - GNSS ON, with fix 4 - GNSS SLEEP 5 - GNSS Overcurrent/protect state	FMB640 FMC640 FMM640	Permanent I/O elements

181	GNSS PDOP	2	Unsigned	0	500	-	-	Probability	FMB640 FMC640 FMM640	Permanent I/O elements
182	GNSS HDOP	2	Unsigned	0	500	-	-	Probability	FMB640 FMC640 FMM640	Permanent I/O elements
66	External Voltage	2	Unsigned	0	30000	0,001	mV	Voltage, mV	FMB640 FMC640 FMM640	Permanent I/O elements
24	Speed	2	Unsigned	0	350	-	km/h	Value, km/h	FMB640 FMC640 FMM640	Permanent I/O elements
205	GSM Cell ID	4	Unsigned	0	4294967295	-	-	GSM base station ID	FMB640 FMC640 FMM640	Permanent I/O elements
206	GSM Area Code	2	Unsigned	0	65535	-	-	Location Area code (LAC), it depends on GSM operator. It provides unique number which assigned to a set of base GSM stations.	FMB640 FMC640 FMM640	Permanent I/O elements
67	Battery Voltage	2	Unsigned	0	30000	0,001	mV	Voltage, mV	FMB640 FMC640 FMM640	Permanent I/O elements
68	Battery Current	2	Unsigned	0	2400	-	mA	Current, mA	FMB640 FMC640 FMM640	Permanent I/O elements
241	Active GSM Operator	4	Unsigned	0	4294967295	-	-	Currently used GSM Operator code	FMB640 FMC640 FMM640	Permanent I/O elements
199	Trip Odometer	4	Unsigned	0	4294967295	-	m	Trip Odometer value in meters	FMB640	Permanent

									FMC640 FMM640	I/O elements
216	Total Odometer	4	Unsigned	0	4294967295	-	m	Total Odometer value in meters	FMB640 FMC640 FMM640	Permanent I/O elements
1	Digital Input 1	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
9	Analog Input 1	2	Unsigned	0	30000	0,001	V	Voltage, V	FMB640 FMC640 FMM640	Permanent I/O elements
179	Digital Output 1	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
236	Axis X	2	Signed	-8000	8000	-	mG	X axis value, mG	FMB640 FMC640 FMM640	Permanent I/O elements
237	Axis Y	2	Signed	-8000	8000	-	mG	Y axis value, mG	FMB640 FMC640 FMM640	Permanent I/O elements
238	Axis Z	2	Signed	-8000	8000	-	mG	Z axis value, mG	FMB640 FMC640 FMM640	Permanent I/O elements
219	CCID Part1	8	Unsigned	0	0xffffffffffffff	-	-	Value of SIM ICCID	FMB640 FMC640 FMM640	Permanent I/O elements
220	CCID Part2	8	Unsigned	0	0xffffffffffffff	-	-	Value of SIM ICCID	FMB640 FMC640 FMM640	Permanent I/O elements

221	CCID Part3	8	Unsigned	0	0xffffffffffffff	-	-	Value of SIM ICCID	FMB640 FMC640 FMM640	Permanent I/O elements
144	SD Status	1	Unsigned	0	1	-	-	Logic: 0 – not present, 1 – present	FMB640 FMC640 FMM640	Permanent I/O elements
2	Digital Input 2	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
3	Digital Input 3	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
10	Analog Input 2	2	Unsigned	0	30000	0,001	V	Voltage, V	FMB640 FMC640 FMM640	Permanent I/O elements
180	Digital Output 2	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
72	Dallas Temperature 1	2	Signed	-550	1150	0,1	°C	Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMB640 FMC640 FMM640	Permanent I/O elements
73	Dallas Temperature 2	2	Signed	-550	1150	0,1	°C	Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMB640 FMC640 FMM640	Permanent I/O elements

74	Dallas Temperature 3	2	Signed	-550	1150	0,1	°C	Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMB640 FMC640 FMM640	Permanent I/O elements
75	Dallas Temperature 4	2	Signed	-550	1150	0,1	°C	Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMB640 FMC640 FMM640	Permanent I/O elements
62	Dallas Temperature ID 1	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
63	Dallas Temperature ID 2	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
64	Dallas Temperature ID 3	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
65	Dallas Temperature ID 4	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
78	iButton	8	Unsigned	0	0xffffffffffffff	-	-	iButton ID	FMB640 FMC640 FMM640	Permanent I/O elements
207	RFID	8	Unsigned	0	0xffffffffffffff	-	-	RFID ID	FMB640 FMC640	Permanent I/O elements

									FMM640	
201	LLS 1 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232 in kvants or liters	FMB640 FMC640 FMM640	Permanent I/O elements
202	LLS 1 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS232 in degrees Celsius	FMB640 FMC640 FMM640	Permanent I/O elements
203	LLS 2 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232 in kvants or liters	FMB640 FMC640 FMM640	Permanent I/O elements
204	LLS 2 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS232 in degrees Celsius	FMB640 FMC640 FMM640	Permanent I/O elements
210	LLS 3 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232 in kvants or liters	FMB640 FMC640 FMM640	Permanent I/O elements
211	LLS 3 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS232 in degrees Celsius	FMB640 FMC640 FMM640	Permanent I/O elements
212	LLS 4 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232 in kvants or liters	FMB640 FMC640 FMM640	Permanent I/O elements
213	LLS 4 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS232 in degrees Celsius	FMB640 FMC640 FMM640	Permanent I/O elements
214	LLS 5 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232 in kvants or liters	FMB640 FMC640 FMM640	Permanent I/O elements
215	LLS 5 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS	FMB640	Permanent

								via RS232 in degrees Celsius	FMC640 FMM640	I/O elements
178	Network Type	1	Unsigned	0	1	-	-	0 - 3G 1 - 2G	FMC640 FMM640	Permanent I/O elements
108	Number Of Records	4	Unsigned	0	65535	-	h	Record counter, counts records saved since startup.	FMC640 FMM640	Permanent I/O elements
4	Digital Input 4	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
50	Digital Output 3	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
51	Digital Output 4	1	Unsigned	0	1	-	-	Logic: 0/1	FMB640 FMC640 FMM640	Permanent I/O elements
11	Analog Input 3	2	Unsigned	0	30000	0,001	V	Voltage, V	FMB640 FMC640 FMM640	Permanent I/O elements
245	Analog Input 4	2	Unsigned	0	30000	0,001	V	Voltage, V	FMB640 FMC640 FMM640	Permanent I/O elements
70	PCB Temperature	2	Signed	-550	1150	0,1	°C	Degrees (°C)	FMB640 FMC640 FMM640	Permanent I/O elements
5	Dallas Temperature ID 5	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
6	Dallas Temperature 5	2	Signed	-550	1150	0,1	°C		FMB640	Permanent

								Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMC640 FMM640	I/O elements
7	Dallas Temperature ID 6	8	Unsigned	0	0xffffffffffffff	-	-	Dallas sensor ID	FMB640 FMC640 FMM640	Permanent I/O elements
8	Dallas Temperature 6	2	Signed	-550	1150	0,1	°C	Degrees (°C), -55 - +115, if 850 – Sensor not ready if 2000 – Value read error if 3000 – Not connected if 4000 – ID failed if 5000 – same as 850	FMB640 FMC640 FMM640	Permanent I/O elements
76	Impulse Counter 1	4	Unsigned	0	4294967295	-	-	Difference of generated impulses on two signal lines	FMB640 FMC640 FMM640	Permanent I/O elements
217	RFID COM2	8	Unsigned	0	0xffffffffffffff	-	-	RFID ID on COM2	FMB640 FMC640 FMM640	Permanent I/O elements
218	IMSI	8	Unsigned	0	0xffffffffffffff	-	-	International mobile subscriber identity	FMB640 FMC640 FMM640	Permanent I/O elements
224	Ultrasonic Fuel Level 1	2	Signed	-15	32767	0,1	mm		FMB640 FMC640 FMM640	Permanent I/O elements
225	Ultrasonic Fuel Level 2	2	Signed	-15	32767	0,1	mm		FMB640 FMC640	Permanent I/O elements

208	Ultrasonic Software Status 1	1	Unsigned	0	255	-	-	0 – Software – Normal 1 – Software – The system has just started, output measurement value 2 – Software – Gas delay count 3 – Software – The measured value is invalid 4 – Software – The stationary state 5 – No data received for 50-60 seconds 9 – Software – a sudden drop 10 – Software – a sudden rise 11 – Software – delay time of the sudden drop 12 – Software – delay time of the sudden rise 13 – Software – The stationary state, maintain the liquid level height value outputu changed 15 – Software – A sudden drop/rise on an tilt	FMB640 FMC640 FMM640	Permanent I/O elements
209	Ultrasonic Software Status 2	1	Unsigned	0	255	-	-	Values are identical to Ultrasonic Software Status 1	FMB640 FMC640 FMM640	Permanent I/O elements
484	External Sensor Temperature 1	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements
485	External Sensor Temperature 2	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements
486	External Sensor Temperature 3	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements

487	External Sensor Temperature 4	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements
488	External Sensor Temperature 5	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements
489	External Sensor Temperature 6	2	Signed	-32768	32767	-	°C	Degrees, °C	FMB640 FMC640 FMM640	Permanent I/O elements
701	BLE 1 temperature	2	Signed	-400	1250	0,1	°C	Degrees, °C, -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMC640 FMM640	Permanent I/O elements
702	BLE 2 temperature	2	Signed	-400	1250	0,1	°C	Degrees, °C, -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMC640 FMM640	Permanent I/O elements
703	BLE 3 temperature	2	Signed	-400	1250	0,1	°C	Degrees, °C, -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMC640 FMM640	Permanent I/O elements
704	BLE 4 temperature	2	Signed	-400	1250	0,1	°C	Degrees, °C, -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMC640 FMM640	Permanent I/O elements
705	BLE 1 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #1	FMC640 FMM640	Permanent I/O elements

706	BLE 2 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #2	FMC640 FMM640	Permanent I/O elements
707	BLE 3 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #3	FMC640 FMM640	Permanent I/O elements
708	BLE 4 Battery Voltage	1	Unsigned	0	100	-	%	Battery voltage of sensor #4	FMC640 FMM640	Permanent I/O elements
709	BLE 1 Humidity	2	Unsigned	0	1000	0,1	%RH	Humidity as measured by sensor #1	FMC640 FMM640	Permanent I/O elements
710	BLE 2 Humidity	2	Unsigned	0	1000	0,1	%RH	Humidity as measured by sensor #2	FMC640 FMM640	Permanent I/O elements
711	BLE 3 Humidity	2	Unsigned	0	1000	0,1	%RH	Humidity as measured by sensor #3	FMC640 FMM640	Permanent I/O elements
712	BLE 4 Humidity	2	Unsigned	0	1000	0,1	%RH	Humidity as measured by sensor #4	FMC640 FMM640	Permanent I/O elements
713	BLE Sensor Custom 1	8	Unsigned	0	0xffffffffffff	-	-	Raw data of 1st BLE sensor	FMC640 FMM640	Permanent I/O elements
714	BLE Sensor Custom 2	8	Unsigned	0	0xffffffffffff	-	-	Raw data of 2nd BLE sensor	FMC640 FMM640	Permanent I/O elements
715	BLE Sensor Custom 3	8	Unsigned	0	0xffffffffffff	-	-	Raw data of 3rd BLE sensor	FMC640 FMM640	Permanent I/O elements
716	BLE Sensor Custom 4	8	Unsigned	0	0xffffffffffff	-	-	Raw data of 4th BLE sensor	FMC640 FMM640	Permanent I/O elements
717	BLE Luminosity 1	2	Unsigned	0	0xFFFF	-	-	Luminosity value of a 1st BLE sensor	FMC640 FMM640	Permanent I/O elements
718	BLE Luminosity 2	2	Unsigned	0	0xFFFF	-	-	Luminosity value of a 2nd BLE sensor	FMC640 FMM640	Permanent I/O elements
719	BLE Luminosity 3	2	Unsigned	0	0xFFFF	-	-	Luminosity value of a 3rd BLE	FMC640	Permanent

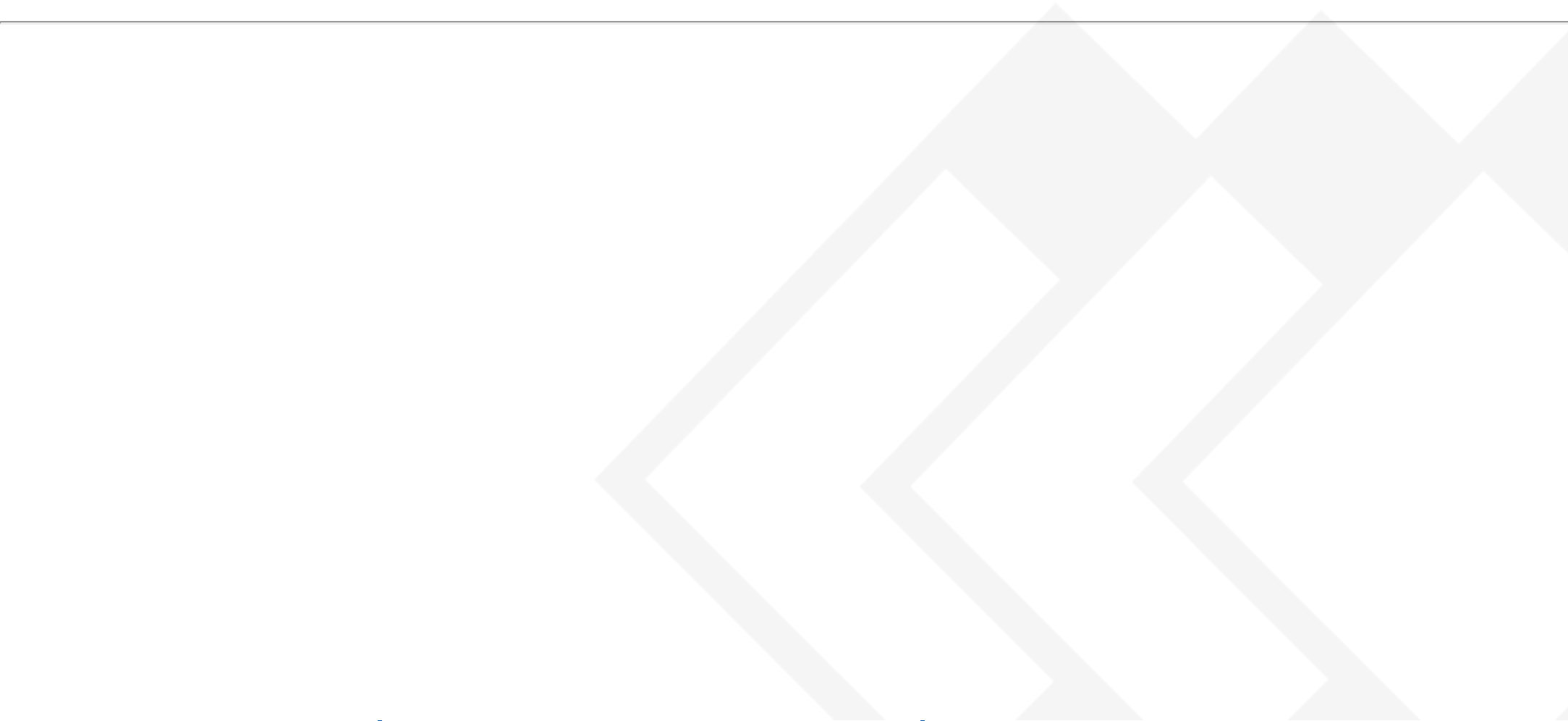
								sensor	FMM640	I/O elements
720	BLE Luminosity 4	2	Unsigned	0	0xFFFF	-	-	Luminosity value of a 4th BLE sensor	FMC640 FMM640	Permanent I/O elements
721	BLE LLS Fuel 1	2	Unsigned	0	0xFFFF	-	-	Fuel level of a 1st BLE sensor	FMC640 FMM640	Permanent I/O elements
722	BLE LLS Fuel 2	2	Unsigned	0	0xFFFF	-	-	Fuel level of a 2nd BLE sensor	FMC640 FMM640	Permanent I/O elements
723	BLE LLS Fuel 3	2	Unsigned	0	0xFFFF	-	-	Fuel level of a 3rd BLE sensor	FMC640 FMM640	Permanent I/O elements
724	BLE LLS Fuel 4	2	Unsigned	0	0xFFFF	-	-	Fuel level of a 4th BLE sensor	FMC640 FMM640	Permanent I/O elements
725	BLE Frequency 1	4	Unsigned	0	0xFFFFFFFF	-	-	Frequency value of BLE fuel sensor #1	FMC640 FMM640	Permanent I/O elements
726	BLE Frequency 2	4	Unsigned	0	0xFFFFFFFF	-	-	Frequency value of BLE fuel sensor #2	FMC640 FMM640	Permanent I/O elements
727	BLE Frequency 3	4	Unsigned	0	0xFFFFFFFF	-	-	Frequency value of BLE fuel sensor #3	FMC640 FMM640	Permanent I/O elements
728	BLE Frequency 4	4	Unsigned	0	0xFFFFFFFF	-	-	Frequency value of BLE fuel sensor #4	FMC640 FMM640	Permanent I/O elements
729	BLE Sensor Custom 12	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
730	BLE Sensor Custom 13	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
731	BLE Sensor Custom 14	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
732	BLE Sensor Custom 15	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements

733	BLE Sensor Custom 22	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
734	BLE Sensor Custom 23	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
735	BLE Sensor Custom 24	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
736	BLE Sensor Custom 25	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
737	BLE Sensor Custom 32	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
738	BLE Sensor Custom 33	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
739	BLE Sensor Custom 34	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
740	BLE Sensor Custom 35	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
741	BLE Sensor Custom 42	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
742	BLE Sensor Custom 43	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
743	BLE Sensor Custom 44	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
744	BLE Sensor Custom 45	4	Unsigned	0	0xFFFFFFFF	-	-	RAW Data of BLE sensor	FMC640 FMM640	Permanent I/O elements
10009	Eco score	2	Unsigned	0	65535	0,01	-	Average amount of events on some distance	FMB640 FMC640 FMM640	Permanent I/O elements

10487	1Wire Humidity 1	1	Unsigned	0	0xFF	-	%	1Wire Humidity 1	FMB640 FMC640 FMM640	Permanent I/O elements
10488	1Wire Humidity 2	1	Unsigned	0	0xFF	-	%	1Wire Humidity 2	FMB640 FMC640 FMM640	Permanent I/O elements
10489	1Wire Humidity 3	1	Unsigned	0	0xFF	-	%	1Wire Humidity 3	FMB640 FMC640 FMM640	Permanent I/O elements
10490	1Wire Humidity 4	1	Unsigned	0	0xFF	-	%	1Wire Humidity 4	FMB640 FMC640 FMM640	Permanent I/O elements
10491	1Wire Humidity 5	1	Unsigned	0	0xFF	-	%	1Wire Humidity 5	FMB640 FMC640 FMM640	Permanent I/O elements
10492	1Wire Humidity 6	1	Unsigned	0	0xFF	-	%	1Wire Humidity 1	FMB640 FMC640 FMM640	Permanent I/O elements
10640	Impulse counter frequency 1	4	Unsigned	0	4294967295	-	Hz	Impulse frequency of the selected input	FMB640 FMC640 FMM640	Permanent I/O elements
10641	Impulse counter RPM 1	4	Unsigned	0	4294967295	-	RPM	Impulse RPM of the selected input	FMB640 FMC640 FMM640	Permanent I/O elements
483	Impulse counter 2	4	Unsigned	0	4294967295	-	-	Difference of generated impulses on two signal lines	FMB640 FMC640 FMM640	Permanent I/O elements
10642	Impulse counter frequency 2	4	Unsigned	0	4294967295	-	Hz	Impulse frequency of the selected input	FMB640 FMC640 FMM640	Permanent I/O elements

10643	Impulse counter RPM 2	4	Unsigned	0	4294967295	-	RPM	Impulse RPM of the selected input	FMB640 FMC640 FMM640	Permanent I/O elements
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FMS elements



Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
79	Brake Switch	1	Unsigned	0	1	-	-	0 - Pedal released 1 - Pedal pressed	FMB640 FMC640 FMM640	FMS elements
80	Wheel Based Speed	4	Unsigned	0	65536	-	km/h		FMB640 FMC640 FMM640	FMS elements
81	Cruise Control Active	1	Unsigned	0	1	-	-	0 - Switched off 1 - Switched on	FMB640 FMC640 FMM640	FMS elements
82	Clutch Switch	1	Unsigned	0	1	-	-	0 - Pedal released 1 - Pedal pressed	FMB640 FMC640 FMM640	FMS elements
83	PTO State	1	Unsigned	0	1	-	-	0 - Off/disabled 1 - Set 2 - Not available	FMB640 FMC640 FMM640	FMS elements
84	Acceleration Pedal Position	4	Unsigned	0	102	-	%		FMB640 FMC640 FMM640	FMS elements
85	Engine Current Load	1	Unsigned	0	125	-	%		FMB640 FMC640 FMM640	FMS elements
86	Engine Total Fuel Used	4	Unsigned	0	2105540607	-	l	Value in liters, L	FMB640 FMC640 FMM640	FMS elements

87	Fuel Level	4	Unsigned	0	102	-	%	FMB640 FMC640 FMM640	FMS elements
88	Engine Speed	4	Unsigned	0	8032	-	rpm	FMB640 FMC640 FMM640	FMS elements
89	Axle weight 1	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
90	Axle weight 2	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
91	Axle weight 3	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
92	Axle weight 4	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
93	Axle weight 5	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
94	Axle weight 6	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
95	Axle weight 7	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
96	Axle weight 8	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements

97	Axle weight 9	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
98	Axle weight 10	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
99	Axle weight 11	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
100	Axle weight 12	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
101	Axle weight 13	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
102	Axle weight 14	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
103	Axle weight 15	2	Unsigned	0	32766	-	kg	FMB640 FMC640 FMM640	FMS elements
104	Engine Total Hours Of Operation	4	Unsigned	0	214748364	-	h	FMB640 FMC640 FMM640	FMS elements
109	Software Version Supported	4	Unsigned	0	0xffffffff	-	-	Format: ab.cd ab = byte1 byte2 cd = byte3 byte4 FMB640 FMC640 FMM640	FMS elements
110	Diagnostics Supported	1	Unsigned	0	3	-	-	FMB640	FMS

0 - Diagnostics is not supported
 1 - Diagnostics is supported
 2 - Reserved
 3 - Do not care

FMC640
 FMM640

elements

111	Requests Supported	1	Unsigned	0	3	-	-	0 - Request is not supported 1 - Request is supported 2 - Reserved 3 - Do not care	FMB640 FMC640 FMM640	FMS elements
113	Service Distance	4	Signed	-160635	167040	-	km		FMB640 FMC640 FMM640	FMS elements
122	Direction Indication	1	Unsigned	0	1	-	-	0 - Vehicle is moving Forward 1 - Reverse	FMB640 FMC640 FMM640	FMS elements
123	Tachograph Performance	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	FMS elements
124	Handling Info	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	FMS elements
125	System Event	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	FMS elements
127	Engine Coolant Temperature	1	Signed	-40	210	-	°C		FMB640 FMC640 FMM640	FMS elements
128	Ambient Air Temperature	2	Signed	-273	1770	-	°C		FMB640 FMC640 FMM640	FMS elements

135	Fuel Rate	4	Unsigned	0	3212	-	l/h		FMB640 FMC640 FMM640	FMS elements
136	Instantaneous Fuel Economy	4	Unsigned	0	125	-	km/l		FMB640 FMC640 FMM640	FMS elements
137	PTO Drive Engagement	1	Unsigned	0	3	-	-	0 - No PTO drive is engaged 1 - At least one PTO drive is engaged 2 - Error 3 - Not available	FMB640 FMC640 FMM640	FMS elements
138	High Resolution Engine Total Fuel Used	4	Unsigned	0	4211081.215	-	l or ml	Resolution in l or ml depending on the FMS fuel settings (item id 121)	FMB640 FMC640 FMM640	FMS elements
139	Gross Combination Vehicle Weight	2	Unsigned	0	642550	-	kg	The total weight of the truck and all attached trailers.	FMB640 FMC640 FMM640	FMS elements
229	AdBlue status	1	Unsigned	0	3	-	-	0 - Off 1 - Cond. Red 2 - Cond. Yellow 3 - Cond. info	FMB640 FMC640 FMM640	FMS elements
357	Brake Pedal Position	1	Unsigned	0	100	-	%	The ratio of current brake pedal position to the maximum possible position	FMB640 FMC640 FMM640	FMS elements
10348	Fuel level 2	4	Unsigned	0	100	-	%	This parameter shows fuel level in secondary tank (if fuel type is different then currently used fuel)	FMB640 FMC640 FMM640	FMS elements
10349	MIL indicator	1	Unsigned	0	100	-	-	0 - OFF	FMB640 FMC640	FMS elements

1 - Condition Red
2 - Condition Yellow
3 - Condition Info
7 - Not Available

FMM640

There are three possible conditions stated: Red, Yellow, Info. The interpretation of the status is manufacturer dependant and might be different. For details please refer to the manufacturer's document.

10428	Tell Tale 0	8	HEX	0	0xffffffffffffff	-	-	IO element describes Tell Tale Block ID message received from Block ID 0 in Hexadecimal format.	FMB640 FMC640 FMM640	FMS elements
10429	Tell Tale 1	8	HEX	0	0xffffffffffffff	-	-	IO element describes Tell Tale Block ID message received from Block ID 1 in Hexadecimal format.	FMB640 FMC640 FMM640	FMS elements
10430	Tell Tale 2	8	HEX	0	0xffffffffffffff	-	-	IO element describes Tell Tale Block ID message received from Block ID 2 in Hexadecimal format.	FMB640 FMC640 FMM640	FMS elements
10431	Tell Tale 3	8	HEX	0	0xffffffffffffff	-	-	IO element describes Tell Tale Block ID message received from Block ID 3 in Hexadecimal format.	FMB640 FMC640 FMM640	FMS elements
10439	Parking Brake	1	Unsigned	0	0xFF	-	-	Parking brake set (01) or not set (00)	FMB640 FMC640 FMM640	FMS elements
10440	Service Air Brake Pressure 1	2	Unsigned	0	0xFFFF	-	kPa	The pneumatic pressure in the service brake circuit or reservoir #1	FMB640 FMC640 FMM640	FMS elements
10441	Service Air Brake Pressure 2	2	Unsigned	0	0xFFFF	-	kPa	The pneumatic pressure in the service brake circuit or reservoir	FMB640 FMC640	FMS elements

#2									FMM640	
10442	Selected Gear	1	Unsigned	0	0xFF	-	-	The gear that the transmission will attempt to achieve during the current shift if a shift is in progress, or the next shift if one is pending	FMB640 FMC640 FMM640	FMS elements
10443	Current Gear	1	Unsigned	0	0xFF	-	-	The gear currently engaged in the transmission or the last gear engaged while the transmission is in the process of shifting to the new or selected gear	FMB640 FMC640 FMM640	FMS elements
10444	Bellow Pressure Front Left	2	Unsigned	0	0xFFFF	0,1	kPa	Bellow Pressure Front Left	FMB640 FMC640 FMM640	FMS elements
10445	Bellow Pressure Front Right	2	Unsigned	0	0xFFFF	0,1	kPa	Bellow Pressure Front Right	FMB640 FMC640 FMM640	FMS elements
10446	Bellow Pressure Rear Left	2	Unsigned	0	0xFFFF	0,1	kPa	Bellow Pressure Rear Left	FMB640 FMC640 FMM640	FMS elements
10447	Bellow Pressure Rear Right	2	Unsigned	0	0xFFFF	0,1	kPa	Bellow Pressure Rear Right	FMB640 FMC640 FMM640	FMS elements
10448	Transmission Oil Temperature	1	Unsigned	0	0xFF	-	°C	Transmission Oil Temperature	FMB640 FMC640 FMM640	FMS elements
10449	Door Status	4	HEX	0	0xFFFFFFFF	-	-	Door Status	FMB640 FMC640 FMM640	FMS elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
12	Program Number	4	Unsigned	0	999	-	-	Value: Min – 0, Max – 999	FMB640 FMC640 FMM640	CAN adapters elements
13	Module ID	8	Unsigned	0	0xffffffffffffff	-	-	Module ID	FMB640 FMC640 FMM640	CAN adapters elements
14	Engine Worktime	4	Unsigned	0	16777215	-	min	Engine work time in minutes	FMB640 FMC640 FMM640	CAN adapters elements
15	Engine Worktime (Counted)	4	Unsigned	0	16777215	-	min	Total Engine work time in minutes	FMB640 FMC640 FMM640	CAN adapters elements
16	Total Mileage (Counted)	4	Unsigned	0	4294967295	-	m	Total Vehicle Mileage, m	FMB640 FMC640 FMM640	CAN adapters elements
17	Fuel Consumed (counted)	4	Unsigned	0	2147483647	0,1	l	Total Fuel Consumed, l	FMB640 FMC640 FMM640	CAN adapters elements
18	Fuel Rate	2	Unsigned	0	32768	0,1	l/h	Fuel Rate l/h	FMB640 FMC640 FMM640	CAN adapters elements
19	AdBlue Level Percent	1	Unsigned	0	255	0,1	%	AdBlue, %	FMB640 FMC640 FMM640	CAN adapters elements
20	AdBlue Level Liters	2	Unsigned	0	65535	0,1	l	AdBlue level, L	FMB640 FMC640	CAN adapters elements

									FMM640	
23	Engine Load	1	Unsigned	0	130	-	%	Engine load, %	FMB640 FMC640 FMM640	CAN adapters elements
25	Engine Temperature	2	Signed	-600	1270	0,1	°C	Engine Temperature, °C	FMB640 FMC640 FMM640	CAN adapters elements
26	Axle 1 Load	2	Unsigned	0	32768	-	kg	Axle 1 load, kg	FMB640 FMC640 FMM640	CAN adapters elements
27	Axle 2 Load	2	Unsigned	0	32768	-	kg	Axle 2 load, kg	FMB640 FMC640 FMM640	CAN adapters elements
28	Axle 3 Load	2	Unsigned	0	32768	-	kg	Axle 3 load, kg	FMB640 FMC640 FMM640	CAN adapters elements
29	Axle 4 Load	2	Unsigned	0	32768	-	kg	Axle 4 load, kg	FMB640 FMC640 FMM640	CAN adapters elements
30	Vehicle Speed	1	Unsigned	0	255	-	km/h	Value in km/h	FMB640 FMC640 FMM640	CAN adapters elements
31	Accelerator Pedal Position	1	Unsigned	0	255	0,1	%	Value in percentages, %	FMB640 FMC640 FMM640	CAN adapters elements
32	Axle 5 Load	2	Unsigned	0	32768	-	kg	Axle 5 load, kg	FMB640 FMC640 FMM640	CAN adapters elements
33	Fuel Consumed	4	Unsigned	0	2147483647	0,1	l	Value in liters, L	FMB640	CAN adapters

									FMC640 FMM640	elements
34	Fuel Level Liters	2	Unsigned	0	65535	0,1	l	Value in liters, L	FMB640 FMC640 FMM640	CAN adapters elements
35	Engine RPM	2	Unsigned	0	16384	-	rpm	Value in rounds per minute, rpm	FMB640 FMC640 FMM640	CAN adapters elements
36	Total Mileage	4	Unsigned	0	4294967295	-	m	Value in meters, m	FMB640 FMC640 FMM640	CAN adapters elements
37	Fuel Level Percent	1	Unsigned	0	255	0,1	%	Value in percentages, %	FMB640 FMC640 FMM640	CAN adapters elements
38	Control State Flags	4	Unsigned	0	4294967295	-	-	Control State Flags	FMB640 FMC640 FMM640	CAN adapters elements
39	Agricultural Machinery Flags	8	Unsigned	0	0xffffffffffff	-	-	Agricultural machinery flags	FMB640 FMC640 FMM640	CAN adapters elements
40	Harvesting Time	4	Unsigned	0	16777215	-	min	Harvesting time, minutes	FMB640 FMC640 FMM640	CAN adapters elements
41	Area of Harvest	4	Unsigned	0	4294967295	-	m2	Area of Harvest, m2	FMB640 FMC640 FMM640	CAN adapters elements
42	Mowing Efficiency	4	Unsigned	0	4294967295	-	m2/h	Mowing efficiency, (m^2)/h	FMB640 FMC640 FMM640	CAN adapters elements

43	Grain Mown Volume	4	Unsigned	0	4294967295	-	kg	Mown Volume, kg	FMB640 FMC640 FMM640	CAN adapters elements
44	Grain Moisture	2	Unsigned	0	65535	0,1	%	Grain Moisture in proc, %	FMB640 FMC640 FMM640	CAN adapters elements
45	Harvesting Drum RPM	2	Unsigned	0	65535	-	rpm	Harvesting Drum RPM, RPM	FMB640 FMC640 FMM640	CAN adapters elements
46	Gap Under Harvesting Drum	1	Unsigned	0	255	-	mm	Gap Under Harvesting Drum, mm	FMB640 FMC640 FMM640	CAN adapters elements
47	Security State Flags	8	Unsigned	0	0xffffffffffffff	-	-	Security State Flag	FMB640 FMC640 FMM640	CAN adapters elements
141	Battery Temperature	2	Unsigned	-600	1270	0,1	°C	Degrees, °C	FMB640 FMC640 FMM640	CAN adapters elements
142	Battery Level Percent	1	Unsigned	0	255	0,1	%	Value in percentages, %	FMB640 FMC640 FMM640	CAN adapters elements
143	Door Status	2	Unsigned	0	16128	-	-	Min – 0, Max – 16128 Door status is represented as bitmask converted to decimal value. Possible values: 0 – all doors closed, 0x100 (256) – front left door is opened, 0x200 (512) – front right door is opened, 0x400 (1024) – rear left door is	FMB640 FMC640 FMM640	CAN adapters elements

opened,
0x800 (2048) – rear right door is
opened,
0x1000 (4096) – hood is opened,
0x2000 (8192) – trunk is opened,
0x3F00 (16128) – all doors are
opened, or combinations of
values

176	DTC Errors	1	Unsigned	0	255	-	-	DTC Errors	FMB640 FMC640 FMM640	CAN adapters elements
527	DTC Value	Variable	Unsigned	-	-	-	-		FMB640 FMC640 FMM640	CAN adapters elements
226	CNG Status	1	Unsigned	0	1	-	-	0 - Engine not on CNG; 1 - Engine on CNG.	FMB640 FMC640 FMM640	CAN adapters elements
227	CNG Used	4	Unsigned	0	4294967295	-	kg	CNG Used	FMB640 FMC640 FMM640	CAN adapters elements
228	CNG Level	2	Unsigned	0	65535	-	%	CNG Level	FMB640 FMC640 FMM640	CAN adapters elements
500	Slope Of Arm	2	Signed	-3276	3276	-	°	Slope Of Arm, degrees °	FMB640 FMC640 FMM640	CAN adapters elements
501	Rotation Of Arm	2	Signed	-180	180	-	°	Rotation Of Arm, degrees °	FMB640 FMC640 FMM640	CAN adapters elements
502	Eject Of Arm	2	Unsigned	0	6553	-	m	Eject Of Arm, m	FMB640 FMC640	CAN adapters elements

										FMM640	
503	Horizontal Distance Arm	2	Unsigned	0	6553	-	m	Horizontal Distance Arm Vehicle, m	FMB640 FMC640 FMM640	CAN adapters elements	
504	Height Arm Above Ground	2	Unsigned	0	6553	-	m	Height Arm Above ground, m	FMB640 FMC640 FMM640	CAN adapters elements	
505	Drill RPM	2	Unsigned	0	65535	-	rpm	Drill RPM, RPM	FMB640 FMC640 FMM640	CAN adapters elements	
506	Spread Salt	2	Unsigned	0	655	-	g/m2	Amount Of Spread Salt Square Meter, g/m2	FMB640 FMC640 FMM640	CAN adapters elements	
507	Battery Voltage	2	Unsigned	0	6553	-	V	Battery Voltage, V	FMB640 FMC640 FMM640	CAN adapters elements	
508	Spread Fine Grained Salt	4	Unsigned	0	1677722	-	T	Amount Of Spread Fine Grained Salt, T	FMB640 FMC640 FMM640	CAN adapters elements	
509	Coarse Grained Salt	4	Unsigned	0	1677722	-	T	Amount Of Coarsed Grained Salt, T	FMB640 FMC640 FMM640	CAN adapters elements	
510	Spread DiMix	4	Unsigned	0	1677722	-	T	Amount Of Spread DiMix, T	FMB640 FMC640 FMM640	CAN adapters elements	
511	Spread Coarse Grained Calcium	4	Unsigned	0	1677722	-	m2	Amount Of Spread Coarse Grained Calcium, m2	FMB640 FMC640 FMM640	CAN adapters elements	
512	Spread Calcium Chloride	4	Unsigned	0	1677722	-	m2	Amount Of Spread Calcium	FMB640	CAN adapters	

								Chloride, m2	FMC640 FMM640	elements
513	Spread Sodium Chloride	4	Unsigned	0	1677722	-	m2	Amount Of Spread Sodium Chloride, m2	FMB640 FMC640 FMM640	CAN adapters elements
514	Spread Magnesium Chloride, m2	4	Unsigned	0	1677722	-	m2	Amount Of Spread Magnesium Chloride, m2	FMB640 FMC640 FMM640	CAN adapters elements
515	Amount Of Spread Gravel	4	Unsigned	0	1677722	-	T	Amount Of Spread Gravel, T	FMB640 FMC640 FMM640	CAN adapters elements
516	Amount Of Spread Sand	4	Unsigned	0	1677722	-	T	Amount Of Spread Sand, T	FMB640 FMC640 FMM640	CAN adapters elements
517	Width Pouring Left	2	Unsigned	0	655	-	m	Width pouring left, m	FMB640 FMC640 FMM640	CAN adapters elements
518	Width Pouring Right	2	Unsigned	0	655	-	m	Width pouring right, m	FMB640 FMC640 FMM640	CAN adapters elements
519	Salt Spreader Working Hours	4	Unsigned	0	1677722	-	h	Salt Spreader Working Hours, h	FMB640 FMC640 FMM640	CAN adapters elements
520	Distance During Salting	4	Unsigned	0	1677722	-	km	Distance During salting, km	FMB640 FMC640 FMM640	CAN adapters elements
521	Load Weight	4	Unsigned	0	16777215	-	kg	Load Weight, kg	FMB640 FMC640 FMM640	CAN adapters elements

522	Retarder Load	1	Unsigned	0	130	-	%	Retarder Load, %	FMB640 FMC640 FMM640	CAN adapters elements
523	Cruise Time	4	Unsigned	0	16777215	-	min	Cruise time, minutes	FMB640 FMC640 FMM640	CAN adapters elements
524	Engine Oil Level	1	Unsigned	0	255	-	-	Oil level	FMB640 FMC640 FMM640	CAN adapters elements
525	Fault Codes	128	ASCII	0	128	-	-	Fault Codes (values seperated via ".")	FMB640 FMC640 FMM640	CAN adapters elements
526	Vehicles Range On Battery	4	Unsigned	0	16777215	-	m	Vehicles Range On Battery	FMB640 FMC640 FMM640	CAN adapters elements
527	Vehicles Range On Additional Fuel	4	Unsigned	0	2147483647	-	m	Vehicles Range On Additional Fuel	FMB640 FMC640 FMM640	CAN adapters elements
528	VIN	17	ASCII	0	0xFF	-	-	VIN number	FMB640 FMC640 FMM640	CAN adapters elements
529	Module ID 17B	17	HEX	0	0x7fffffffffffffff	-	-	Module ID 17 bytes	FMB640 FMC640 FMM640	CAN adapters elements
10631	LVCAN Driver Seatbelt	1	Unsigned	0	1	-	-	Driver Seatbelt	FMB640 FMC640 FMM640	CAN adapters elements
10632	LVCAN Front Passenger Seatbelt	1	Unsigned	0	1	-	-	Front Passenger Seatbelt	FMB640 FMC640 FMM640	CAN adapters elements

Eventual I/O elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
52	Tacho drive no card	1	Unsigned	0	1	-	-	0 – No card stop 1 – No card start	FMB640 FMC640 FMM640	Eventual I/O elements
70	PCB Temperature	2	Signed	-550	1150	0,1	°C	Degrees (°C)	FMB640 FMC640 FMM640	Eventual I/O elements
155	Geofence zone 01	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
156	Geofence zone 02	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
157	Geofence zone 03	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
158	Geofence zone 04	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
159	Geofence zone 05	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
160	Geofence zone 06	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
161	Geofence zone 07	1	Unsigned	0	1	-	-		FMB640	Eventual I/O

								0 – target left zone 1 – target entered zone	FMC640 FMM640	elements
162	Geofence zone 08	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
163	Geofence zone 09	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
164	Geofence zone 10	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
165	Geofence zone 11	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
166	Geofence zone 12	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
167	Geofence zone 13	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
168	Geofence zone 14	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
169	Geofence zone 15	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
170	Geofence zone 16	1	Unsigned	0	1	-	-	0 – target left zone	FMB640 FMC640	Eventual I/O elements

								1 – target entered zone	FMM640	
171	Geofence zone 17	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
172	Geofence zone 18	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
173	Geofence zone 19	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
174	Geofence zone 20	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
327	Geofence zone 21	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
328	Geofence zone 22	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
329	Geofence zone 23	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
330	Geofence zone 24	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
331	Geofence zone 25	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements

332	Geofence zone 26	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
333	Geofence zone 27	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
334	Geofence zone 28	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
335	Geofence zone 29	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
336	Geofence zone 30	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
337	Geofence zone 31	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
338	Geofence zone 32	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
339	Geofence zone 33	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
340	Geofence zone 34	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
341	Geofence zone 35	1	Unsigned	0	1	-	-		FMB640	Eventual I/O

								0 – target left zone 1 – target entered zone	FMC640 FMM640	elements
342	Geofence zone 36	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
343	Geofence zone 37	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
344	Geofence zone 38	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
345	Geofence zone 39	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
346	Geofence zone 40	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
347	Geofence zone 41	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
348	Geofence zone 42	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
349	Geofence zone 43	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
350	Geofence zone 44	1	Unsigned	0	1	-	-	0 – target left zone	FMB640 FMC640	Eventual I/O elements

								1 – target entered zone	FMM640	
351	Geofence zone 45	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
352	Geofence zone 46	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
353	Geofence zone 47	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
354	Geofence zone 48	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
355	Geofence zone 49	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
356	Geofence zone 50	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
550	Geofence zone 51	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
551	Geofence zone 52	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
552	Geofence zone 53	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements

553	Geofence zone 54	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
554	Geofence zone 55	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
555	Geofence zone 56	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
556	Geofence zone 57	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
557	Geofence zone 58	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
558	Geofence zone 59	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
559	Geofence zone 60	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
560	Geofence zone 61	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
561	Geofence zone 62	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
562	Geofence zone 63	1	Unsigned	0	1	-	-		FMB640	Eventual I/O

								0 – target left zone 1 – target entered zone	FMC640 FMM640	elements
563	Geofence zone 64	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
564	Geofence zone 65	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
565	Geofence zone 66	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
566	Geofence zone 67	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
567	Geofence zone 68	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
568	Geofence zone 69	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
569	Geofence zone 70	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
570	Geofence zone 71	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
571	Geofence zone 72	1	Unsigned	0	1	-	-	0 – target left zone	FMB640 FMC640	Eventual I/O elements

								1 – target entered zone	FMM640	
572	Geofence zone 73	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
573	Geofence zone 74	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
574	Geofence zone 75	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
575	Geofence zone 76	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
576	Geofence zone 77	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
577	Geofence zone 78	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
578	Geofence zone 79	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
579	Geofence zone 80	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
580	Geofence zone 81	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements

581	Geofence zone 82	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
582	Geofence zone 83	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
583	Geofence zone 84	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
584	Geofence zone 85	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
585	Geofence zone 86	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
586	Geofence zone 87	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
587	Geofence zone 88	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
588	Geofence zone 89	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
589	Geofence zone 90	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
590	Geofence zone 91	1	Unsigned	0	1	-	-		FMB640	Eventual I/O

								0 – target left zone 1 – target entered zone	FMC640 FMM640	elements
591	Geofence zone 92	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
592	Geofence zone 93	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
593	Geofence zone 94	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
594	Geofence zone 95	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
595	Geofence zone 96	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
596	Geofence zone 97	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
597	Geofence zone 98	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
598	Geofence zone 99	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements

599	Geofence zone 100	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
175	Auto Geofence	1	Unsigned	0	1	-	-	0 – target left zone 1 – target entered zone	FMB640 FMC640 FMM640	Eventual I/O elements
250	Trip	1	Unsigned	0	1	-	-	1 – trip start; 0 – trip stop.	FMB640 FMC640 FMM640	Permanent I/O elements
255	Over Speeding	1	Unsigned	0	255	-	km/h	At over speeding start km/h, at over speeding end km/h	FMB640 FMC640 FMM640	Eventual I/O elements
257	Crash Trace Data	466	HEX	0	466	-	-	Crash Trace Data	FMB640 FMC640 FMM640	Permanent I/O elements
258	EcoMaximum	8	Unsigned	0	0xffffffffffffff	-	-	Element stores maximum accelerometer values in mg on all axis during Eco driving event 8 Bytes: 2B Zeros 2B - X axis 2B - Y axis 2B - Z axis	FMB640 FMC640 FMM640	Permanent I/O elements
259	EcoAverage	8	Unsigned	0	0xffffffffffffff	-	-	Element stores average accelerometer values in mg on all axis during Eco 8 Bytes: 2B Zeros 2B - X axis 2B - Y axis 2B - Z axis	FMB640 FMC640 FMM640	Permanent I/O elements
260	EcoDuration	2	Unsigned	0	65535	-	-	Duration of Eco driving in miliseconds.	FMB640 FMC640 FMM640	Permanent I/O elements
476	Timeframe Dout	1	Unsigned	0	1	-	-		FMB640	Permanent

									FMC640 FMM640	I/O elements
482	AI Reader Event	1	Unsigned	0	255	-	-		FMB640 FMC640 FMM640	Permanent I/O elements
549	DigiMobi Beacon ID	20	HEX	0	20	-	-	Nearest Beacon ID	FMB640 FMC640 FMM640	Permanent I/O elements
243	Idling	1	Unsigned	0	1	-	-	0 – moving, 1 – idling	FMB640 FMC640 FMM640	Eventual I/O elements
244	Camera Image Generated	4	Unsigned	0	4294967295	-	-	Image id is timestamp value	FMB640 FMC640 FMM640	Eventual I/O elements
253	Green Driving Type	1	Unsigned	1	3	-	-	1 – harsh acceleration, 2 – harsh braking, 3 – harsh cornering	FMB640 FMC640 FMM640	Eventual I/O elements
246	Towing	1	Unsigned	0	1	-	-	0 – steady, 1 – towing	FMB640 FMC640 FMM640	Eventual I/O elements
248	Geofence Zone Over Speeding	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
247	Crash Detection	1	Unsigned	0	5	-	-	1 – Crash detected 2 – limited crash trace (device not calibrated) 3 - limited crash trace (device is calibrated) 4 - full crash trace (device not	FMB640 FMC640 FMM640	Eventual I/O elements

calibrated)
5 - full crash trace (device is calibrated)

251	Immobilizer	1	Unsigned	0	3	-	-	0 – iButton not connected 1 – iButton connected (Immobilizer) 2 – iButton connected (Authorized Driving) 3 - Authorization timeout	FMB640 FMC640 FMM640	Eventual I/O elements
254	Green Driving Value	1	Unsigned	0	255	acc and braking: 0.01	G or rad	Depending on green driving type: if harsh acceleration or braking – $g \times 100$ (value 123 -> 1.23g), if harsh cornering – degrees (value in radians)	FMB640 FMC640 FMM640	Eventual I/O elements
249	Jamming	1	Unsigned	0	1	-	-	1 – jamming start 0 – jamming stop	FMB640 FMC640 FMM640	Eventual I/O elements
252	Authorized Driving	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
242	Data Limit Hit	1	Unsigned	0	1	-	-	0 - Data limit hit in home; 1 - Data limit hit in roaming.	FMB640 FMC640 FMM640	Eventual I/O elements
362	Trace Order	2	Unsigned	0	65535	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
358	Custom Scenario 1	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements

359	Custom Scenario 2	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
360	Custom Scenario 3	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
361	Custom Scenario 4	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Eventual I/O elements
10500	BLE Advertisement data	198	HEX	0	198	-	-	List of parsed advertising data of BLE beacons (Eddystone and iBeacon) found by BLE scanning	FMB640 FMC640 FMM640	Permanent I/O elements
10611	RS232_COM1Data	200	HEX	0	200	-	-	RS232_COM1Data to IO	FMB640 FMC640 FMM640	Permanent I/O elements
10612	RS232_COM2Data	200	HEX	0	200	-	-	RS232_COM2Data to IO	FMB640 FMC640 FMM640	Permanent I/O elements

Manual CAN elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
145	Manual CAN 00	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
146	Manual CAN 01	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
147	Manual CAN 02	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
148	Manual CAN 03	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
149	Manual CAN 04	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
150	Manual CAN 05	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
151	Manual CAN 06	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
152	Manual CAN 07	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
153	Manual CAN 08	1-8	Unsigned	0	0xffffffffffffffff	-	-		FMB640 FMC640	Manual CAN elements

								FMM640	
154	Manual CAN 09	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
380	Manual CAN 10	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
381	Manual CAN 11	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
382	Manual CAN 12	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
383	Manual CAN 13	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
384	Manual CAN 14	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
385	Manual CAN 15	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
386	Manual CAN 16	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
387	Manual CAN 17	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
388	Manual CAN 18	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640	Manual CAN

								FMC640 FMM640	elements
389	Manual CAN 19	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10298	Manual CAN 20	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10299	Manual CAN 21	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10300	Manual CAN 22	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10301	Manual CAN 23	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10302	Manual CAN 24	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10303	Manual CAN 25	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10304	Manual CAN 26	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10305	Manual CAN 27	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements

10306	Manual CAN 28	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10307	Manual CAN 29	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10308	Manual CAN 30	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10309	Manual CAN 31	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10310	Manual CAN 32	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10311	Manual CAN 33	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10312	Manual CAN 34	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10313	Manual CAN 35	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10314	Manual CAN 36	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10315	Manual CAN 37	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements

10316	Manual CAN 38	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10317	Manual CAN 39	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10318	Manual CAN 40	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10319	Manual CAN 41	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10320	Manual CAN 42	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10321	Manual CAN 43	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10322	Manual CAN 44	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10323	Manual CAN 45	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10324	Manual CAN 46	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10325	Manual CAN 47	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640	Manual CAN elements

									FMM640	
10326	Manual CAN 48	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10327	Manual CAN 49	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10328	Manual CAN 50	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10329	Manual CAN 51	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10330	Manual CAN 52	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10331	Manual CAN 53	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10332	Manual CAN 54	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10333	Manual CAN 55	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10334	Manual CAN 56	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640 FMC640 FMM640	Manual CAN elements
10335	Manual CAN 57	1-8	Unsigned	0	0xffffffffffffff	-	-		FMB640	Manual CAN

								FMC640 FMM640	elements
10336	Manual CAN 58	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10337	Manual CAN 59	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10338	Manual CAN 60	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10339	Manual CAN 61	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10340	Manual CAN 62	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10341	Manual CAN 63	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10342	Manual CAN 64	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10343	Manual CAN 65	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10344	Manual CAN 66	1-8	Unsigned	0	0xffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements

10345	Manual CAN 67	1-8	Unsigned	0	0xffffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10346	Manual CAN 68	1-8	Unsigned	0	0xffffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10347	Manual CAN 69	1-8	Unsigned	0	0xffffffffffffffff	-	-	FMB640 FMC640 FMM640	Manual CAN elements
10358	Manual CAN Extended	224	HEX	0	224	-	-	Variable size FMB640 FMC640 FMM640	Manual CAN elements

Tachograph data elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
183	Drive Recognize	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Tachograph data elements
184	Driver 1 Working State	1	Unsigned	0	5	-	-	0 - Rest; 1 - Driver available 2 - Work; 3 - Drive; 6 - Error; 7 - Not available.	FMB640 FMC640 FMM640	Tachograph data elements
185	Driver 2 Working State	1	Unsigned	0	5	-	-	0 - Rest; 1 - Driver available 2 - Work; 3 - Drive; 6 - Error; 7 - Not available.	FMB640 FMC640 FMM640	Tachograph data elements
186	Tachograph Over Speed	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Tachograph data elements
187	Driver 1 Card Presence	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Tachograph data elements
188	Driver 2 Card Presence	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Tachograph data elements
189	Driver 1 Time Related States	1	Unsigned	0	15	-	-	0 – normal; 1 – 15 min before 4.5h;	FMB640 FMC640	Tachograph data elements

2 – 4.5h reached;
3 – 15 min before 9h;
4 – 9 h reached;
5 – 15 min before 16h;
6 – 16h reached;
7 – weekly driving time pre-warning active;
8 - weekly driving time warning active;
9 - 2 weeks driving time pre-warning active;
10 - 2 weeks driving time warning active;
11 - driver 1 card expiry warning active;
12 - next mandatory driver 1 card download warning active;
13 – Other;
14 – Error;
15 – Not available..

FMM640

190	Driver 2 Time Related States	1	Unsigned	0	15	-	-	0 – normal; 1 – 15 min before 4.5h; 2 – 4.5h reached; 3 – 15 min before 9h; 4 – 9 h reached; 5 – 15 min before 16h; 6 – 16h reached; 7 – weekly driving time pre-warning active; 8 - weekly driving time warning active; 9 - 2 weeks driving time pre-warning active; 10 - 2 weeks driving time warning active; 11 - driver 2 card expiry warning active; 12 - next mandatory driver 2 card download warning active;	FMB640 FMC640 FMM640	Tachograph data elements
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13 – Other;
14 – Error;
15 – Not available..

191	Vehicle Speed	2	Unsigned	0	65535	-	km/h		FMB640 FMC640 FMM640	Tachograph data elements
192	Odometer	4	Unsigned	0	4294967295	-	m	Total vehicle distance	FMB640 FMC640 FMM640	Tachograph data elements
193	Trip Distance	4	Unsigned	0	4294967295	-	m	Current vehicle distance	FMB640 FMC640 FMM640	Tachograph data elements
194	Timestamp	4	Unsigned	0	4294967295	-	-		FMB640 FMC640 FMM640	Tachograph data elements
231	Vehicle Registration Number Part1	8	Unsigned	0	0xffffffffffffff	-	-	ASCII bytes	FMB640 FMC640 FMM640	Tachograph data elements
232	Vehicle Registration Number Part2	8	Unsigned	0	0xffffffffffffff	-	-	ASCII bytes	FMB640 FMC640 FMM640	Tachograph data elements
233	Vehicle Identification Number Part1	8	Unsigned	0	0xffffffffffffff	-	-	ASCII bytes	FMB640 FMC640 FMM640	Tachograph data elements
234	Vehicle Identification Number Part2	8	Unsigned	0	0xffffffffffffff	-	-	ASCII bytes	FMB640 FMC640 FMM640	Tachograph data elements
235	Vehicle Identification Number Part3	1	Unsigned	0	0xff	-	-	ASCII bytes	FMB640 FMC640	Tachograph data elements

									FMM640	
222	Card 1 Issuing Member State	1	Unsigned	0	255	-	-	NationNumeric as described in EEC 3821_85	FMB640 FMC640 FMM640	Tachograph data elements
223	Card 2 Issuing Member State	1	Unsigned	0	255	-	-	NationNumeric as described in EEC 3821_85	FMB640 FMC640 FMM640	Tachograph data elements
195	Driver 1 ID MSB	8	Unsigned	0	0xffffffffffffff	-	-	How to read Driver ID	FMB640 FMC640 FMM640	Tachograph data elements
196	Driver 1 ID LSB	8	Unsigned	0	0xffffffffffffff	-	-	How to read Driver ID	FMB640 FMC640 FMM640	Tachograph data elements
197	Driver 2 ID MSB	8	Unsigned	0	0xffffffffffffff	-	-	How to read Driver ID	FMB640 FMC640 FMM640	Tachograph data elements
198	Driver 2 ID LSB	8	Unsigned	0	0xffffffffffffff	-	-	How to read Driver ID	FMB640 FMC640 FMM640	Tachograph data elements
56	Driver 1 Continuous Driving Time	2	Unsigned	0	0xffff	-	min		FMB640 FMC640 FMM640	Tachograph data elements
57	Driver 2 Continuous Driving Time	2	Unsigned	0	0xffff	-	min		FMB640 FMC640 FMM640	Tachograph data elements
58	Driver 1 Cumulative Break Time	2	Unsigned	0	0xffff	-	min		FMB640 FMC640 FMM640	Tachograph data elements
59	Driver 2 Cumulative Break	2	Unsigned	0	0xffff	-	min		FMB640	Tachograph

Time								FMC640 FMM640	data elements
60	Driver 1 Selected Activity Duration	2	Unsigned	0	0xffff	-	min	FMB640 FMC640 FMM640	Tachograph data elements
61	Driver 2 Selected Activity Duration	2	Unsigned	0	0xffff	-	min	FMB640 FMC640 FMM640	Tachograph data elements
69	Driver 1 Cumulative Driving Time	2	Unsigned	0	0xffff	-	min	FMB640 FMC640 FMM640	Tachograph data elements
77	Driver 2 Cumulative Driving Time	2	Unsigned	0	0xffff	-	min	FMB640 FMC640 FMM640	Tachograph data elements
48	Tacho Data Source	1	Unsigned	0	4	-	-	0 - Unknown (data not available); 1 - K Line; 2 - ALLCan; 3 - TachoCan; 4 - FMS. FMB640 FMC640 FMM640	Tachograph data elements
10501	Drivers hours rules pre warning time delay	1	Unsigned	0	255	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10502	Out Of Scope Condition	1	Unsigned	0	255	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10503	Next Calibration Date	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10504	Driver 1 end of last daily	4	Unsigned	0	4294967295	-	-	FMB640	Tachograph

rest report

FMC640
FMM640 data elements

10505	Driver 1 end of last weekly rest period	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10506	Driver 1 end of second last weekly rest period	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10507	Driver 1 current daily driving time	2	Unsigned	0	65535	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10508	Driver 1 current weekly driving time	2	Unsigned	0	65535	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10509	Driver 1 time left until new daily rest period	2	Unsigned	0	65535	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10510	Driver 1 number of times 9h daily driving time exceeds	1	Unsigned	0	255	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10511	Driver 2 end of last daily rest report	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10512	Driver 2 end of last weekly rest period	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements
10513	Driver 2 end of second last weekly rest period	4	Unsigned	0	4294967295	-	-	FMB640 FMC640 FMM640	Tachograph data elements

10514	Driver 2 current daily driving time	2	Unsigned	0	65535	-	-		FMB640 FMC640 FMM640	Tachograph data elements
10515	Driver 2 current weekly driving time	2	Unsigned	0	65535	-	-		FMB640 FMC640 FMM640	Tachograph data elements
10516	Driver 2 time left until new daily rest period	2	Unsigned	0	65535	-	-		FMB640 FMC640 FMM640	Tachograph data elements
10517	Driver 2 number of times 9h daily driving time exceeds	1	Unsigned	0	255	-	-		FMB640 FMC640 FMM640	Tachograph data elements
10518	Driver 1 Name	36	ASCII	0	36	-	-	Driver1 Name (FirstByte - Coding ISO/IEC 8859)	FMB640 FMC640 FMM640	Tachograph data elements
10519	Driver 1 SurName	36	ASCII	0	36	-	-	Driver1 SurName (FirstByte - Coding ISO/IEC 8859)	FMB640 FMC640 FMM640	Tachograph data elements
10520	Driver 2 Name	36	ASCII	0	36	-	-	Driver2 Name (FirstByte - Coding ISO/IEC 8859)	FMB640 FMC640 FMM640	Tachograph data elements
10521	Driver 2 SurName	36	ASCII	0	36	-	-	Driver2 SurName (FirstByte - Coding ISO/IEC 8859)	FMB640 FMC640 FMM640	Tachograph data elements

Mobileye elements

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
288	ME Sound Type	1	Unsigned	0	7	-	-	0 - Silent; 1 - LWD Left; 2 - LWD Right; 3 - HW 1; 4 - TSR; 5 - UFCW; 6 - FCW + PCW; 7 - Peds in danger zone (if enabled).	FMB640 FMC640 FMM640	Mobileye elements
289	ME Pedestrians in Danger Zone	1	Unsigned	0	1	-	-	0 - Pedestrian not in danger zone; 1 - Pedestrian in danger zone.	FMB640 FMC640 FMM640	Mobileye elements
290	ME Pedestrians in Forward Collision Warning	1	Unsigned	0	1	-	-	0 - No forward collision warning; 1 - Forward collision warning.	FMB640 FMC640 FMM640	Mobileye elements
291	ME Time Indicator	1	Unsigned	0	2	-	-	0 - Day is indicated; 1 - Dusk is indicated; 2 - Night is indicated.	FMB640 FMC640 FMM640	Mobileye elements
292	ME Error Valid	1	Unsigned	0	1	-	-	0 - Error; 1 - No error.	FMB640 FMC640 FMM640	Mobileye elements
293	ME Error Code	1	Unsigned	0	127	-	-	Error code	FMB640 FMC640 FMM640	Mobileye elements
294	ME Zero Speed	1	Unsigned	0	1	-	-	0 - Host vehicle is moving;	FMB640 FMC640	Mobileye elements

								1 - Host vehicle is stopped.	FMM640	
295	ME Headway Valid	1	Unsigned	0	1	-	-	0 - Headway Valid is off; 1 - Headway Valid is on (when CIPV is detected).	FMB640 FMC640 FMM640	Mobileye elements
296	ME Headway Measurement	1	Unsigned	0	9,9	0,1	-	Seconds	FMB640 FMC640 FMM640	Mobileye elements
297	ME LDW Off	1	Unsigned	0	1	-	-	0 - LDW are enabled; 1 - LDW are disabled.	FMB640 FMC640 FMM640	Mobileye elements
298	ME Left LDW On	1	Unsigned	0	1	-	-	0 - Left LDW are enabled; 1 - Left LDW are disabled.	FMB640 FMC640 FMM640	Mobileye elements
299	ME Right LDW On	1	Unsigned	0	1	-	-	0 - Right LDW are enabled; 1 - Right LDW are disabled.	FMB640 FMC640 FMM640	Mobileye elements
300	ME Maintenance	1	Unsigned	0	1	-	-	0 - Internal error is not detected; 1 - Internal error is detected.	FMB640 FMC640 FMM640	Mobileye elements
301	ME Fail Safe	1	Unsigned	0	1	-	-	0 - Fail Safe indicator is off; 1 - Fail Safe indicator (modes) is on (blur image, saturated image, low sun, partial blockage, partial transparent).	FMB640 FMC640 FMM640	Mobileye elements
302	ME FCW On	1	Unsigned	0	1	-	-	0 - FCW are disabled; 1 - FCW are enabled;	FMB640 FMC640 FMM640	Mobileye elements

303	ME TSR Enabled	1	Unsigned	0	1	-	-	0 - TSR feature is disabled; 1 - TSR feature is enabled.	FMB640 FMC640 FMM640	Mobileye elements
304	ME Headway Warning Repeat Enabled	1	Unsigned	0	1	-	-	0 - Headway Warning Repeat is disabled; 1 - Headway Warning Repeat is enabled.	FMB640 FMC640 FMM640	Mobileye elements
305	ME Headway Warning Level	1	Unsigned	0	2	-	-	0 - No CIPV is present; 1 - A CIPV is present with HW > HW Config; 2 - A CIPV is present with HW <= HW Config or HW < 0,6.	FMB640 FMC640 FMM640	Mobileye elements
306	ME TSR Warning Level	1	Unsigned	0	7	-	-	0 - Speed <= Road Speed; 1 - Speed > Road Speed + [0-5 km/h]; 2 - Speed > Road Speed + [5-10 km/h]; 3 - Speed > Road Speed + [10-15 km/h]; 4 - Speed > Road Speed + [15-20 km/h]; 5 - Speed > Road Speed + [20-25 km/h]; 6 - Speed > Road Speed + [25-30 km/h]; 7 - Speed > Road Speed + [30-35 km/h] and + 35 km/h;	FMB640 FMC640 FMM640	Mobileye elements
307	ME Tamper Alert	1	Unsigned	0	1	-	-	0 - No tamper alert; 1 - Tamper alert.	FMB640 FMC640 FMM640	Mobileye elements
308	ME High Beam	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640	Mobileye elements

									FMM640	
309	ME Low Beam	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640 FMM640	Mobileye elements
310	ME Wipers	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640 FMM640	Mobileye elements
311	ME Right Signal	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640 FMM640	Mobileye elements
312	ME Left Signal	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640 FMM640	Mobileye elements
313	ME Brake Signal	1	Unsigned	0	1	-	-	0 - Off; 1 - On.	FMB640 FMC640 FMM640	Mobileye elements
314	ME Wipers Available	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Mobileye elements
315	ME Low Beam Available	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Mobileye elements
316	ME High Beam Available	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Mobileye elements
317	ME Speed Available	1	Unsigned	0	1	-	-		FMB640 FMC640 FMM640	Mobileye elements

318	ME Speed	1	Unsigned	0	255	-	km/h		FMB640 FMC640 FMM640	Mobileye elements
319	ME TSR 1	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
320	ME TSR 2	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
321	ME TSR 3	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
322	ME TSR 4	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
323	ME TSR 5	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
324	ME TSR 6	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
325	ME TSR 7	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye sign recognition data	FMB640 FMC640 FMM640	Mobileye elements
326	ME TSR VO	8	Unsigned	0	0xffffffffffffff	-	-	Mobileye vision only sign type data	FMB640 FMC640 FMM640	Mobileye elements

ContiPressureCheck TPMS

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
10189	Total Tires	1	Unsigned	0	0xFF	-		TPMS Total Tires	FMB640 FMC640 FMM640	TPMS
10190	Total Axles	1	Unsigned	0	0xFF	-			FMB640 FMC640 FMM640	TPMS
10191	Graphical Position	8	Unsigned	0	0xFFFFFFFFFFFFFFFF	-			FMB640 FMC640 FMM640	TPMS
10192	Tire 1 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10193	Tire 2 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10194	Tire 3 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10195	Tire 4 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10196	Tire 5 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10197	Tire 6 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640	TPMS

								FMM640	
10198	Tire 7 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10199	Tire 8 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10200	Tire 9 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10201	Tire 10 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10202	Tire 11 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10203	Tire 12 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10204	Tire 13 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10205	Tire 14 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10206	Tire 15 pressure	1	HEX	0	0xFF	-	kPa	FMB640 FMC640 FMM640	TPMS
10207	Tire 16 pressure	1	HEX	0	0xFF	-	kPa	FMB640	TPMS

									FMC640 FMM640	
10208	Tire 17 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10209	Tire 18 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10210	Tire 19 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10211	Tire 20 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10212	Tire 21 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10213	Tire 22 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10214	Tire 23 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10215	Tire 24 pressure	1	HEX	0	0xFF	-		kPa	FMB640 FMC640 FMM640	TPMS
10360	Tire 1 Temperature	1	HEX	0	0xFF	-	°C		FMB640 FMC640 FMM640	TPMS

10361	Tire 1 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10362	Tire 2 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10363	Tire 2 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10364	Tire 3 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10365	Tire 3 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10366	Tire 4 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10367	Tire 4 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10368	Tire 5 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10369	Tire 5 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10370	Tire 6 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS

10371	Tire 6 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10372	Tire 7 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10373	Tire 7 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10374	Tire 8 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10375	Tire 8 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10376	Tire 9 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10377	Tire 9 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10378	Tire 10 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10379	Tire 10 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10380	Tire 11 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640	TPMS

								FMM640	
10381	Tire 11 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10382	Tire 12 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10383	Tire 12 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10384	Tire 13 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10385	Tire 13 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10386	Tire 14 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10387	Tire 14 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10388	Tire 15 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10389	Tire 15 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10390	Tire 16 Temperature	1	HEX	0	0xFF	-	°C	FMB640	TPMS

								FMC640 FMM640	
10391	Tire 16 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10392	Tire 17 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10393	Tire 17 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10394	Tire 18 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10395	Tire 18 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10396	Tire 19 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10397	Tire 19 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10398	Tire 20 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10399	Tire 20 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS

10400	Tire 21 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10401	Tire 21 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10402	Tire 22 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10403	Tire 22 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10404	Tire 23 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10405	Tire 23 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS
10406	Tire 24 Temperature	1	HEX	0	0xFF	-	°C	FMB640 FMC640 FMM640	TPMS
10407	Tire 24 Warning	1	HEX	0	0xFF	-		FMB640 FMC640 FMM640	TPMS

Freezer IO

Property ID in AVL packet	Property Name	Bytes	Type	Value range		Multiplier	Units	Description	HW Support	Parameter Group
				Min	Max					
10040	Fuel Level	1	Unsigned	0	127.5	0.5	%		FMB640 FMC640 FMM640	Freezer IO
10041	Battery Voltage	2	Unsigned	0	3276.75	0.1	V		FMB640 FMC640 FMM640	Freezer IO
10042	Total Electric Minutes	4	Unsigned	0	214748364.8	1	min	Compressor operating minutes from electrical power supply	FMB640 FMC640 FMM640	Freezer IO
10043	Total Vehicle Minutes	4	Unsigned	0	214748364.8	1	min	Compressor total operating minutes	FMB640 FMC640 FMM640	Freezer IO
10044	Total Engine Minutes	4	Unsigned	0	214748364.8	1	min	Compressor operating minutes when power is received from vehicle engine. Parameter displays total minutes after device was connected to the vehicle	FMB640 FMC640 FMM640	Freezer IO
10045	Zone 1 Alarm Type	1	Unsigned	0	15	-	-		FMB640 FMC640 FMM640	Freezer IO
10046	Zone 1 Alarm Code	1	Unsigned	0	255	-	-		FMB640 FMC640 FMM640	Freezer IO
10047	Zone 1 Return Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO

10048	Zone 1 Supply Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10049	Zone 1 Temperature Setpoint	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10050	Zone 1 Evaporator Coil Temperature	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10051	Zone 1 Return Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10052	Zone 1 Supply Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10053	Zone 1 Operating Mode	1	Unsigned	0	7	-	-		FMB640 FMC640 FMM640	Freezer IO
10054	Zone 2 Alarm Type	1	Unsigned	0	15	-	-		FMB640 FMC640 FMM640	Freezer IO
10055	Zone 2 Alarm Code	1	Unsigned	0	255	-	-		FMB640 FMC640 FMM640	Freezer IO
10056	Zone 2 Return Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10057	Zone 2 Supply Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO

10058	Zone 2 Temperature Setpoint	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10059	Zone 2 Evaporator Coil Temperature	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10060	Zone 2 Return Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10061	Zone 2 Supply Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10062	Zone 2 Operating Mode	1	Unsigned	0	7	-	-		FMB640 FMC640 FMM640	Freezer IO
10063	Zone 3 Alarm Type	1	Unsigned	0	15	-	-		FMB640 FMC640 FMM640	Freezer IO
10064	Zone 3 Alarm Code	1	Unsigned	0	255	-	-		FMB640 FMC640 FMM640	Freezer IO
10065	Zone 3 Return Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10066	Zone 3 Supply Air Temperature 1	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640 FMM640	Freezer IO
10067	Zone 3 Temperature Setpoint	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C	FMB640 FMC640	Freezer IO

										FMM640	
10068	Zone 3 Evaporator Coil Temperature	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C		FMB640 FMC640 FMM640	Freezer IO
10069	Zone 3 Return Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C		FMB640 FMC640 FMM640	Freezer IO
10070	Zone 3 Supply Air Temperature 2	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C		FMB640 FMC640 FMM640	Freezer IO
10071	Zone 3 Operating Mode	1	Unsigned	0	7	-	-			FMB640 FMC640 FMM640	Freezer IO
10350	Ambient Air Temperature	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C		FMB640 FMC640 FMM640	Freezer IO
10351	Coolant Temperature	2	Signed	-1838.2	1802.6	0.1	°C	Degrees, °C		FMB640 FMC640 FMM640	Freezer IO
10352	Error Count	1	Unsigned	0	255	-	-			FMB640 FMC640 FMM640	Freezer IO
10353	RPM	2	Unsigned	0	200000	-	rpm			FMB640 FMC640 FMM640	Freezer IO
10354	RPM	1	Unsigned	0	255	-	-			FMB640 FMC640 FMM640	Freezer IO
10355	Door status	1	Unsigned	0	255	-	-			FMB640	Freezer IO

									FMC640 FMM640	
10356	Instalation Serial	8	Unsigned	0	0xffffffffffffff	-	String		FMB640 FMC640 FMM640	Freezer IO
10357	Trailer Serial	8	Unsigned	0	0xffffffffffffff	-	String		FMB640 FMC640 FMM640	Freezer IO
10464	External Digital Input 1	1	Unsigned	0	0xFF	-	-	Logic 0/1	FMB640 FMC640 FMM640	Freezer IO
10465	External Digital Input 2	1	Unsigned	0	0xFF	-	-	Logic 0/1	FMB640 FMC640 FMM640	Freezer IO
10466	External Digital Input 3	1	Unsigned	0	0xFF	-	-	Logic 0/1	FMB640 FMC640 FMM640	Freezer IO
10467	External Digital Input 4	1	Unsigned	0	0xFF	-	-	Logic 0/1	FMB640 FMC640 FMM640	Freezer IO
10468	External Analog Input 1	2	Unsigned	0	0xFFFF	-	V	External Analog Input 1	FMB640 FMC640 FMM640	Freezer IO
10469	External Analog Input 2	2	Unsigned	0	0xFFFF	-	V	External Analog Input 2	FMB640 FMC640 FMM640	Freezer IO
10470	External Analog Input 3	2	Unsigned	0	0xFFFF	-	V	External Analog Input 3	FMB640 FMC640 FMM640	Freezer IO

10471	External Analog Input 4	2	Unsigned	0	0xFFFF	-	V	External Analog Input 4	FMB640 FMC640 FMM640	Freezer IO
10472	Fridge ID	1	Unsigned	0	0xFF	-	-	Fridge ID	FMB640 FMC640 FMM640	Freezer IO
10473	Battery Flags	1	Unsigned	0	0xFF	-	-	Battery Flags	FMB640 FMC640 FMM640	Freezer IO
10474	Fuel Flags	1	Unsigned	0	0xFF	-	-	Fuel Flags	FMB640 FMC640 FMM640	Freezer IO
10475	Maintenance 1 Hours	4	Unsigned	0	0xFFFFFFFF	-	h	Maintenance 1 Hours	FMB640 FMC640 FMM640	Freezer IO
10476	Maintenance 2 Hours	4	Unsigned	0	0xFFFFFFFF	-	h	Maintenance 2 Hours	FMB640 FMC640 FMM640	Freezer IO
10477	Maintenance 3 Hours	4	Unsigned	0	0xFFFFFFFF	-	h	Maintenance 3 Hours	FMB640 FMC640 FMM640	Freezer IO
10478	Maintenance 4 Hours	4	Unsigned	0	0xFFFFFFFF	-	h	Maintenance 4 Hours	FMB640 FMC640 FMM640	Freezer IO
10479	Maintenance 5 Hours	4	Unsigned	0	0xFFFFFFFF	-	h	Maintenance 5 Hours	FMB640 FMC640 FMM640	Freezer IO
10480	Run Mode	1	Unsigned	0	0xFF	-	-	Run Mode	FMB640 FMC640 FMM640	Freezer IO

10481	External Temperature 1	2	Signed	-32768	32767	-	°C	External Temperature 1	FMB640 FMC640 FMM640	Freezer IO
10482	External Temperature 2	2	Signed	-32768	32767	-	°C	External Temperature 2	FMB640 FMC640 FMM640	Freezer IO
10483	External Temperature 3	2	Signed	-32768	32767	-	°C	External Temperature 3	FMB640 FMC640 FMM640	Freezer IO
10484	External Temperature 4	2	Signed	-32768	32767	-	°C	External Temperature 4	FMB640 FMC640 FMM640	Freezer IO
10485	External Temperature 5	2	Signed	-32768	32767	-	°C	External Temperature 5	FMB640 FMC640 FMM640	Freezer IO
10486	External Temperature 6	2	Signed	-32768	32767	-	°C	External Temperature 6	FMB640 FMC640 FMM640	Freezer IO
10639	Fridge Error Codes	16	HEX	0	16	-	-	Fridge Error Codes Array	FMB640 FMC640 FMM640	Freezer IO
10644	Fridge Temperature Probe 1	2	Signed	-32768	32767	-	-	Fridge temperature probe 1	FMB640 FMC640 FMM640	Freezer IO
10645	Fridge Temperature Probe 2	2	Signed	-32768	32767	-	-	Fridge temperature probe 2	FMB640 FMC640 FMM640	Freezer IO
10646	Fridge Temperature Probe 3	2	Signed	-32768	32767	-	-	Fridge temperature probe 3	FMB640 FMC640	Freezer IO

									FMM640	
10647	Fridge Temperature Probe 4	2	Signed	-32768	32767	-	-	Fridge temperature probe 4	FMB640 FMC640 FMM640	Freezer IO
10648	Fridge Temperature Probe 5	2	Signed	-32768	32767	-	-	Fridge temperature probe 5	FMB640 FMC640 FMM640	Freezer IO
10649	Fridge Temperature Probe 6	2	Signed	-32768	32767	-	-	Fridge temperature probe 6	FMB640 FMC640 FMM640	Freezer IO
10683	Fridge TK Temp 1	2	Signed	-32768	32767	0,1	°C	Fridge TK Temp 1	FMB640 FMC640 FMM640	Freezer IO
10684	Fridge TK Temp 2	2	Signed	-32768	32767	0,1	°C	Fridge TK Temp 2	FMB640 FMC640 FMM640	Freezer IO
10685	Fridge TK Temp 3	2	Signed	-32768	32767	0,1	°C	Fridge TK Temp 3	FMB640 FMC640 FMM640	Freezer IO
10686	Fridge TK Temp 4	2	Signed	-32768	32767	0,1	°C	Fridge TK Temp 4	FMB640 FMC640 FMM640	Freezer IO
10687	Fridge TK Status 1	1	Unsigned	0	255	-	-	Fridge TK Status 1	FMB640 FMC640 FMM640	Freezer IO
10688	Fridge TK Status 2	1	Unsigned	0	255	-	-	Fridge TK Status 2	FMB640 FMC640 FMM640	Freezer IO
10689	Fridge TK Status 3	1	Unsigned	0	255	-	-	Fridge TK Status 3	FMB640	Freezer IO

									FMC640 FMM640	
10690	Fridge TK Status 4	1	Unsigned	0	255	-	-	Fridge TK Status 4	FMB640 FMC640 FMM640	Freezer IO
10691	Fridge TK Alarm 1	1	Unsigned	0	255	-	-	Fridge TK Alarm 1	FMB640 FMC640 FMM640	Freezer IO
10692	Fridge TK Alarm 2	1	Unsigned	0	255	-	-	Fridge TK Alarm 2	FMB640 FMC640 FMM640	Freezer IO
10693	Fridge TK Alarm 3	1	Unsigned	0	255	-	-	Fridge TK Alarm 3	FMB640 FMC640 FMM640	Freezer IO
10694	Fridge TK Alarm 4	1	Unsigned	0	255	-	-	Fridge TK Alarm 4	FMB640 FMC640 FMM640	Freezer IO
10695	Fridge TK Input 1	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 1	FMB640 FMC640 FMM640	Freezer IO
10696	Fridge TK Input 2	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 2	FMB640 FMC640 FMM640	Freezer IO
10697	Fridge TK Input 3	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 3	FMB640 FMC640 FMM640	Freezer IO
10698	Fridge TK Input 4	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 4	FMB640 FMC640 FMM640	Freezer IO

10699	Fridge TK Input 5	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 5	FMB640 FMC640 FMM640	Freezer IO
10700	Fridge TK Input 6	2	Signed	-32768	32767	0,1	°C	Fridge TK Input 6	FMB640 FMC640 FMM640	Freezer IO
10701	Fridge TK Setpoint 1	2	Signed	-32768	32767	0,1	°C	Fridge TK Setpoint 1	FMB640 FMC640 FMM640	Freezer IO
10702	Fridge TK Setpoint 2	2	Signed	-32768	32767	0,1	°C	Fridge TK Setpoint 2	FMB640 FMC640 FMM640	Freezer IO
10703	Fridge TK Setpoint 3	2	Signed	-32768	32767	0,1	°C	Fridge TK Setpoint 3	FMB640 FMC640 FMM640	Freezer IO

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