

FMM650 Device Family Parameter list

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System parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
100	Unit8	0	0	3	0 - Ignition 1 - Movement Sensor 2 - GNSS 3 - CAN Speed	Movement Source
102	Unit8	2	0	3	0 - Disabled 1 - GPS Sleep 2 - Deep Sleep 3 - Online Deep Sleep	Sleep Mode
103	Unit8	10	1	3000	Minutes	Sleep timeout
106	Unit8	1	0	1	0 - Disabled 1 - Enabled	Static Navigation

123	UInt8	0	0	3	0 - Movement OR Ignition 1 - Movement 2 - Ignition 3 - Movement AND Ignition	Static Navigation Deactivation Source
111	UInt8	1	0	1	0 - Range 10 V 1 - Range 30 V	Analog input value range
122	UInt8	1	0	1	0 - Range 10 V 1 - Range 30 V	Analog Input Value Range 3-4
115	UInt8	0	0	1	0 - Ain4 1 - DOUT4	AIN4/DOUT4
117	UInt8	0	0	3	0 - GPS 1 - LVCAN 2 - FMS 3 - KLINE	Odometer Source Settings
118	UInt8	0	0	3	0 - GPS 1 - LVCAN 2 - FMS 3 - KLINE	Speed Source settings
221	UInt8	0	0	3	0 - Dont Send 1 - Send Zero 2 - Send Last Known Value 3 - Send 0xFF	IO Send Mode
113	UInt8	0	0	1	0 - Codec 8 1 - Codec 8 Extended	Data Protocol
107	UInt8	0	0	1	0 - After Position Fix 1 - Always 2 - After Time Sync	Saving/Sending without (TS) time synchronization
1000	UInt8	30	30	259200	Seconds	Open Link timeout
1001	UInt8	30	5	300	Seconds	Response Timeout
1002	UInt8	0	0	1	0 - Newest 1 - Oldest	Sort By
1006	UInt8	0	0	1	0 - Internal memory 1 - SD card	Save records to
1007	UInt8	0	0	2	0 - Disabled 1 - Empty Codec 12 2 - 0xFF	Ping mode
1003	UInt8	60	1	259200	Minutes	Ping timeout (min.)
109	UInt8	3	1	3	0 - Disable 1 - GPS only 3 - GPS + GLONASS 7 - GPS + Galileo + Glonass 9 - GPS + Beidou	GNSS Source
110	Unit8	0	0	1	0 - On Need 1 - After ignition ON	Battery Charge Mode
101	UInt8	32	1	63	1 - DIN1 2 - DIN2 4 - DIN3 8 - DIN4 16 - Movement 32 - Power Voltage If multiple - sum values of desired Ignition sources. E.g. DIN3+DIN4 = 12	Ignition settings
104	UInt16	30000	0	30000	Millivolts	Sets High voltage level

105	Uint16	13200	0	29999	Millivolts	Low voltage level
19001	Uint8	1	1	60	Seconds	Movement Start Delay(s)
19002	Uint16	60	5	60	Seconds	Movement Stop Delay(s)
900	Uint8	1	0	3	GPS only 1 - NITZ and NTP 2 - NTP 3 - NITZ	Synchronization settings
910	Uint8	0	0	300	Seconds	NTP Resync
902	S8[55]	avl1.teltonika.lt	0	55 char string	Char string	NTP server 1
903	S8[55]	pool.ntp.org	0	55 char string	Server address	NTP server 2

GPRS parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
2022	Uint8	0	0	1	Boolean	GPRS activation
2023	Uint8	100	0	1000	Megabytes	Home Limit (MB)
2024	Uint8	10	0	100	Megabytes	Roaming Limit (MB)
2001	S8[32]	Empty	0	32 char string	Text	SIM1 APN Name
2002	S8[30]	Empty	0	30 char string	Text	SIM1 APN username
2003	S8[30]	Empty	0	30 char string	Text	SIM1 APN Password
2011	Uint8	1	0	1	Boolean	SIM2 GPRS content activation
2012	S8[32]	Empty	0	32 char string	Text	SIM2 APN Name
2013	S8[30]	Empty	0	30 char string	Text	SIM2 APN username
2014	S8[30]	Empty	0	30 char string	Text	SIM2 APN Password
2004	S8[55]	Empty	0	55 char string	Internet address	Server #1 Domain
2005	Uint16	0	0	65535	Port number	Target Server #1 Port
2006	Uint8	0	0	1	Boolean	Server #1 Protocol
2007	S8[55]	Empty	0	55 char string	Internet address	Server #2 Server Domain
2008	Uint8	0	0	65535	Port number	Server #2 Server Port
2009	Uint8	0	0	1	Boolean	2nd Server Protocol
13003	Uint8	1	0	1	Boolean	FOTA WEB status
13000	S8[55]	fm.teltonika.lt	0	55 char string	Internet address	FOTA WEB Domain
13001	Uint8	5000	0	65535	Port number	FOTA WEB port
13002	Uint16	720	30	65535	Minutes	FOTA WEB Period (min)

SMS/Call settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
3000	Uint8	0	0	1	Boolean	SMS data sending settings

1002	S8[16]	Empty	Empty	16 digits	Phone number	Data send number
4000-4009	S8[16]	Empty	Empty	16 digits	Phone number(s)	Authorized phone numbers
9000-9009	Uint8	0	0	255	AVL ID(s)	SMS Events AVL ID list
7000-7009	S8[16]	Empty	Empty	16 digits	GSM Number(s)	GSM Predefined Numbers [1-10]
3004	S8[5]	Empty	Empty	5 char	Text	SMS Password
3005	Uint8	0	0	4	Mode	Incoming call action
3006	Uint16	0	-720	840	Number	SMS Event Time Zone
3009	Uint8	0	0	10	Phone number	DIN 1 GSM Number
3011	Uint8	0	0	1	Boolean	DIN 2 Call Trigger
3012	Uint8	0	0	10	Phone number	DIN 2 GSM Number
3013	Uint8	0	0	1	Boolean	DIN 3 Call Trigger
3014	Uint8	0	0	10	Phone number	DIN 3 GSM Number
3015	Uint8	0	0	1	Boolean	DIN 4 Call Trigger
3016	Uint8	0	0	10	Phone number	DIN 4 GSM Number

SMS Events

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
9000-9009	Uint8	0	0	255	AVL ID(s)	SMS Events AVL ID list [1-10]
7000-7009	S8[16]	Empty	Empty	16 digits	GSM Number(s)	GSM Event Number list [1-10]
8000-8009	String	Empty	Empty	160 char	Text	SMS Event Text [1-10]

GSM Operators

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
5000-5049	Uint32	0	0	999999	MCC+MNC number(s)	SIM1 Roaming Operator List
9500-9549	Uint32	0	0	999999	MCC+MNC number(s)	SIM2 Roaming/ Home Operator List
5500-5549	Uint32	0	0	999999	MCC+MNC number(s)	Black List

Data Acquisition

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

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
10000	Uint32	3600	0	2592000	Seconds	Min Period
10005	Uint32	120	0	2592000	Seconds	Send Period
10004	Uint8	1	1	255	Amount	Min Saved Records

- Home Network GSM operator code "Vehicle MOVING" parameters

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

10050	Uint32	3600	0	2592000	Seconds	Min Period
10051	Uint16	100	0	65535	Amount	Min Distance
10053	Uint8	10	0	180	Number	Min Angle
10053	Uint32	10	0	255	Seconds	Min Speed Delta
10055	Uint32	120	0	2592000	Seconds	Send Period
10054	Uint8	1	1	255	Amount	Min Saved Records

- Roaming Network GSM operator code “Vehicle on STOP” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
10100	Uint32	3600	0	2592000	Seconds	Min Period
10105	Uint32	120	0	2592000	Seconds	Send Period
10104	Uint8	1	1	255	Amount	Min Saved Records

- Roaming Network GSM operator code “Vehicle MOVING” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
10150	Uint32	300	0	2592000	Seconds	Min Period
10151	Uint16	100	0	65535	Amount	Min Distance
10152	Uint8	10	0	180	Number	Min Angle
10153	Uint32	10	0	255	Seconds	Min Speed Delta
10155	Uint32	120	0	2592000	Seconds	Send Period
10154	Uint8	1	1	255	Amount	Min Saved Records

- Unknown Network GSM operator code “Vehicle on STOP” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
10200	Uint32	3600	0	2592000	Seconds	Min Period
10205	Uint32	120	0	2592000	Seconds	Send Period
10204	Uint8	1	1	255	Amount	Min Saved Records

- Unknown Network GSM operator code “Vehicle MOVING” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
10250	Uint32	300	0	2592000	Seconds	Min Period
10251	Uint16	100	0	65535	Amount	Min Distance
10252	Uint8	10	0	180	Number	Min Angle
10253	Uint32	10	0	255	Seconds	Min Speed Delta
10255	Uint32	120	0	2592000	Seconds	Send Period
10254	Uint8	1	1	255	Amount	Min Saved Records

Features

- Green driving parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11000	Uint8	0	0	3	0 - Disable 1 - Low Priority 2 - High Priority 3 - Panic Priority	Scenario Settings
11003	Uint8	0	0	5	0 - None 1 - No DOUT control 2 - DOUT 1 3 - DOUT 2 4 - DOUT 3 5 - DOUT4 (Mode must be selected)	Green driving digital output control settings

11007	Uint8	0	0	3	0 - GNSS 1 - Accelerometer 2 - GNSS Algorithm A1 3 - Accelerometer Algorithm A1	Source
11019	Uint8	0	0	1	0 - Disable 1 - Enable	Advanced Eco Driving
11008	Uint8	0	0	1	0 - Disable 1 - Enable	Eco/Green Driving Duration
11011	Uint8	0	0	1	0 - Disable 1 - Enable	Cornering active output duration
11015	Uint8	0	0	1	0 - Disable 1 - Enable	Eco Driving Maximum
11004	Uint8	2.2	0.5	10	m/s ²	Max Acceleration
11005	Uint8	2.5	0.5	10	m/s ²	Max Braking
11006	Uint8	3.4	0.5	10	m/s ²	Max Cornering
11001	Uint8	200	100	5000	ms	DOUT ON Duration
11002	Uint8	200	100	5000	ms	DOUT ON Duration

- Overspeeding parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11100	Uint8	0	0	3	0 - Disable 1 - Low Priority 2 - High Priority 3 - Panic Priority	Scenario Settings
11103	Uint8	0	0	5	0 - Disabled 1 - No DOUT control 2 - DOUT1 3 - DOUT2 4 - DOUT3 5 - DOUT4 (Mode must be selected)	Output control
11104	Uint16	90	0	260	Speed	Max Speed (km/h)
11101	Uint8	200	100	5000	ms	DOUT ON Duration
11102	Uint8	200	100	5000	ms	DOUT ON Duration

- Network Jamming parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11300	Uint8	0	0	3	0 - Disable 1 - Low Priority 2 - High Priority 3 - Panic Priority	Scenario Settings
11304	Uint8	0	0	5	0 - Disable 1 - No DOUT control 2 - DOUT1 3 - DOUT2 4 - DOUT3 5 - DOUT4 (Mode must be selected)	Output control
11306	Uint8	0	0	2	0 - Low 1 - Normal 2 - High	Output control
11303	Uint8	1	0	1	0 - Disable 1 - Enable	Eventual Records
11301	Int32	0	0	65530	Milliseconds	DOUT ON Duration

11302	Int32	200	0	5000	Milliseconds	DOUT ON Duration
11309	Int32	0	0	3600	Seconds	DOUT Hold Delay Duration
11305	Uint16	60	0	65535	Seconds	Time Until Jamming Event Detection

- DOUT Control Via Call parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
12000	Uint8	0	0	4	0 - Disabled 1 - DOUT1 2 - DOUT2 3 - DOUT3 4 - DOUT4 (Mode must be selected)	Digital Output control
12001	Uint8	0	0	4	0 - None 1 - DIN1 2 - DIN2 3 - DIN3 4 - DIN4	DOUT Deactivation Settings
12002	Uint16	5	0	2147483647	Seconds	Duration Timeout

- Immobilizer parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11700	Uint8	0	0	3	0 - Disable 1 - Low Priority 2 - High Priority 3 - Panic Priority	Scenario Settings
11702	Uint8	0	0	5	0 - Disable 1 - No DOUT control 2 - DOUT1 3 - DOUT2 4 - DOUT3 5 - DOUT4 (Mode must be selected)	Immobilizer output control
11701	Uint8	1	0	1	0 - Disable 1 - Enable	Eventual Records
11703	Uint8	1	0	1	0 - Disable 1 - Enable 2 - Beacon 3 - Both	iButton List Check
11707	Uint8	30	0	65535	Seconds	Ignition TMO
11713	Uint8	30	0	65535	Seconds	Authorization TMO

- iButton Read Notification parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11704	Uint8	0	0	5	0 - Disable 1 - No DOUT control 2 - DOUT1 3 - DOUT2 4 - DOUT3 5 - DOUT4 (Mode must be selected)	iButton read notification output control
11705	Uint8	200	0	5000	Milliseconds	DOUT ON Duration
11706	Uint8	0	0	1	0 - Disable 1 - Enable	iButton List Checking

11708	Uint8	0	0	1	0 - Disable 1 - Enable	Depend On Ignition
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Auto Geofence

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
20000	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Priority
20002	Uint8	1	0	1	Boolean	Eventual records
20001	Uint8	0	0	2	0 - On exiting zone 1 - On entering zone 2 - On both	AutoGeofence event generating
20003	Uint16	60	0	65535	Minutes	Activation timeout
20004	Uint32	100	0	1000000	Metres	Radius
20005	Uint8	0	0	5	0 - Ignition 1 - iButton	Deactivate by

Manual Geofence

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
20100	Uint8	0	0	3	0 - Disabled 1 - Low 2 - High 3 - Panic	Priority
20101	Uint8	0	0	2	0 - On exiting zone 1 - On entering zone 2 - On both	Operand
20102	Uint8	1	0	1	Boolean	Eventual records
20103	Uint32	1	0	1000000	Border value	Frame border
20104	Uint8	0	0	1	0 - Circle 1 - Rectangle	Shape type
20105	Uint32	5	0	1000000	Metres	Radius
20106	Double	0	-180	180	Coordinate	X1
20107	Double	0	-90	90	Coordinate	Y1
20108	Double	0	-180	180	Coordinate	X2
20109	Double	0	-90	90	Coordinate	Y2
20110	Uint8	0	0	5	0 - Disable 1 - No DOUT control 2 - DOUT1 3 - DOUT2 4 - DOUT3 5 - DOUT4 (Mode must be selected)	Geozone Overspeeding #1 DOUT control
20111	Uint16	90	0	1000	km/h	Max allowed speed

Similarly to a group defined in the upper table:

Zone number	Parameter											
	Priority	Event generating	Eventual records	Frame border	Shape type	Radius	X1	Y1	X2	Y2	Overspeeding	Max allowed speed
1	20100	20101	20102	20103	20104	20105	20106	20107	20108	20109	20110	20111
2	20120	20121	20122	20123	20124	20125	20126	20127	20128	20129	20130	20131

Accelerometer features

- Towing detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11600	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Priority
11601	Uint8	1	0	1	Boolean	Eventual records
11602	Uint16	5	0	65535	Minutes	Activation timeout
11603	Uint8	0	0	60	Seconds	Event timeout
11604	Uint8	0	0	10	Phone number	Make call to
11605	Double	0.22	0.1	5	mG	Threshold
11606	Double	1	0.1	5	Degrees	Angle
11607	Uint16	1000	1	5000	Milliseconds	Duration

- Crash detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11400	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario setting
11401	Uint8	5	0	1000	Milliseconds	Duration
11402	Uint16	1500	0	7900	mG	Threshold
11406	Uint8	0	0	2	0 - Disable 1 - Trace Changes 2 - Trace Full	Crash Trace

- Excessive idling

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
11200	Uint8	0	0	3	0 - Disable 1 - Low priority 2 - High priority 3 - Panic priority	Scenario settings
11203	Uint8	1	0	1	Boolean	Eventual records
11205	Uint8	300	0	3600	Seconds	Time to stopped
11206	Uint8	5	0	3600	Seconds	Time to moving

- Accelerometer autocalibration

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
169	Uint8	1	0	1	Boolean	Accelerometer auto calibration

iButton List

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
30000-30500	Uint64	0	0	0xFFFFFFFF	ID	iButton ID list

I/O parameters

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
50000	Uint8	1	0	3	Ignition Priority
50001	Uint8	5	0	6	Ignition Operand
50002	Uint8	0	0	1	Ignition High level
50003	Uint8	0	0	1	Ignition Low level
50004	Uint8	0	0	1	Ignition Event only
50005	Uint16	10	0	65535	Ignition Average
50010	Uint8	1	0	3	Movement Priority
50011	Uint8	5	0	6	Movement Operand
50012	Uint8	0	0	1	Movement High level
50013	Uint8	0	0	1	Movement Low level
50014	Uint8	0	0	1	Movement Event only
50015	Uint16	1	0	65535	Movement Average
50020	Uint8	1	0	3	Data Mode Priority
50021	Uint8	3	0	6	Data Mode Operand
50022	Uint8	0	0	5	Data Mode High level
50023	Uint8	0	0	5	Data Mode Low level
50024	Uint8	0	0	1	Data Mode Event only
50030	Uint8	1	0	3	GSM Signal Priority
50031	Uint8	3	0	6	GSM Signal Operand
50032	Uint8	0	0	5	GSM Signal High level
50033	Uint8	0	0	5	GSM Signal Low level
50034	Uint8	0	0	1	GSM Signal Event only
50035	Uint16	1	0	65535	GSM Signal Average
50040	Uint8	1	0	3	Sleep Mode Priority
50041	Uint8	3	0	6	Sleep Mode Operand
50042	Uint8	0	0	2	Sleep Mode High level
50043	Uint8	0	0	2	Sleep Mode Low level
50044	Uint8	0	0	1	Sleep Mode Event only
50050	Uint8	1	0	3	GNSS Status Priority
50051	Uint8	3	0	6	GNSS Status Operand
50052	Uint8	0	0	5	GNSS Status High level
50053	Uint8	0	0	5	GNSS Status Low level
50053	Uint8	0	0	1	GNSS Status Event only
50060	Uint8	0	0	3	GNSS PDOP Priority
5061	Uint8	3	0	6	GNSS PDOP Operand
5062	Uint16	0	0	1000	GNSS PDOP High level
5063	Uint16	0	0	1000	GNSS PDOP Low level
5064	Uint8	0	0	1	GNSS PDOP Event only
5065	Uint16	10	0	65535	GNSS PDOP Average
50070	Uint8	1	0	3	GNSS HDOP Priority
50071	Uint8	3	0	6	GNSS HDOP Operand
50072	Uint16	0	0	1000	GNSS HDOP High level
50073	Uint16	0	0	1000	GNSS HDOP Low level
50074	Uint8	0	0	1	GNSS HDOP Event only
50075	Uint16	10	0	65535	GNSS HDOP Average
50080	Uint8	1	0	3	External Voltage Priority
50081	Uint8	6	0	6	External Voltage Operand

50082	Uint16	1000	0	60000	External Voltage High level
50083	Uint16	0	0	60000	External Voltage Low level
50084	Uint8	0	0	1	External Voltage Event only
50085	Uint16	10	0	65535	External Voltage Average
50090	Uint8	1	0	3	Speed Priority
50091	Uint8	3	0	6	Speed Operand
50092	Uint16	0	0	300	Speed High level
50093	Uint16	0	0	300	Speed Low level
50094	Uint8	0	0	1	Speed Event only
50095	Uint16	1	0	65535	Speed Average
50100	Uint8	0	0	3	GSM Cell ID Priority
50101	Uint8	3	0	6	GSM Cell ID Operand
50102	Uint32	0	0	999999	GSM Cell ID High level
50103	Uint32	0	0	999999	GSM Cell ID Low level
50104	Uint8	0	0	1	GSM Cell ID Event only
50110	Uint8	0	0	3	GSM Area Code Priority
50111	Uint8	3	0	6	GSM Area Code Operand
50112	Uint32	0	0	999999	GSM Area Code High level
50113	Uint32	0	0	999999	GSM Area Code Low level
50114	Uint8	0	0	1	GSM Area Code Event only
50120	Uint8	1	0	3	Battery Voltage Priority
50121	Uint8	3	0	6	Battery Voltage Operand
50122	Uint16	0	0	5000	Battery Voltage High level
50123	Uint16	0	0	5000	Battery Voltage Low level
50124	Uint8	0	0	1	Battery Voltage Event only
50125	Uint8	0	0	10	Battery Voltage Average
50130	Uint8	1	0	3	Battery Current Priority
50131	Uint8	3	0	6	Battery Current Operand
50132	Uint16	0	0	5000	Battery Current High level
50133	Uint16	0	0	5000	Battery Current Low level
50134	Uint8	0	0	1	Battery Current Event only
50135	Uint8	0	0	10	Battery Current Average
50140	Uint8	0	0	3	Active GSM Operator Priority
50141	Uint8	3	0	6	Active GSM Operator Operand
50142	Uint32	0	0	999999	Active GSM Operator High level
50143	Uint32	0	0	999999	Active GSM Operator Low level
50144	Uint8	0	0	1	Active GSM Operator Event only
50150	Uint8	0	0	3	Trip Odometer Priority
50151	Uint8	3	0	6	Trip Odometer Operand
50152	Uint32	0	0	1000000	Trip Odometer High level
50153	Uint32	0	0	1000000	Trip Odometer Low level
50154	Uint8	0	0	1	Trip Odometer Event only
50160	Uint8	0	0	3	Total Odometer Priority
50161	Uint8	3	0	6	Total Odometer Operand
50162	Uint32	0	0	10000000	Total Odometer High level
50163	Uint32	0	0	10000000	Total Odometer Low level
50164	Uint8	0	0	1	Total Odometer Event only
50170	Uint8	0	0	3	Digital Input 1 Priority
50171	Uint8	3	0	6	Digital Input 1 Operand
50172	Uint8	0	0	1	Digital Input 1 High level
50173	Uint8	0	0	1	Digital Input 1 Low level
50174	Uint8	0	0	1	Digital Input 1 Event only
50175	Uint16	1	0	65535	Digital Input 1 Average
50270	Uint8	0	0	3	Digital Input 2 Priority
50271	Uint8	3	0	6	Digital Input 2 Operand
50272	Uint8	0	0	1	Digital Input 2 High level
50273	Uint8	0	0	1	Digital Input 2 Low level
50274	Uint8	0	0	1	Digital Input 2 Event only
50275	Uint16	1	0	65535	Digital Input 2 Average

50280	UInt8	0	0	3	Digital Input 3 Priority
50281	UInt8	3	0	6	Digital Input 3 Operand
50872	UInt8	0	0	1	Digital Input 3 High level
50873	UInt8	0	0	1	Digital Input 3 Low level
50874	UInt8	0	0	1	Digital Input 3 Event only
50875	UInt16	1	0	65535	Digital Input 3 Average
50660	UInt8	0	0	3	Digital Input 4 Priority
50661	UInt8	3	0	6	Digital Input 4 Operand
50662	UInt8	0	0	1	Digital Input 4 High level
50663	UInt8	0	0	1	Digital Input 4 Low level
50664	UInt8	0	0	1	Digital Input 4 Event only
50665	UInt16	1	0	65535	Digital Input 4 Average
50180	UInt8	0	0	3	Analog Input 1 Priority
50181	UInt8	3	0	6	Analog Input 1 Operand
50182	UInt16	0	0	30000	Analog Input 1 High level
50183	UInt16	0	0	30000	Analog Input 1 Low level
50184	UInt8	0	0	1	Analog Input 1 Event only
50185	UInt16	10	0	65535	Analog Input 1 Average
50290	UInt8	0	0	3	Analog Input 2 Priority
50291	UInt8	3	0	6	Analog Input 2 Operand
50292	UInt16	0	0	30000	Analog Input 2 High level
50293	UInt16	0	0	30000	Analog Input 2 Low level
50294	UInt8	0	0	1	Analog Input 2 Event only
50295	UInt16	10	0	65535	Analog Input 2 Average
50670	UInt8	0	0	3	Analog Input 3 Priority
50671	UInt8	3	0	6	Analog Input 3 Operand
50672	UInt16	0	0	30000	Analog Input 3 High level
50673	UInt16	0	0	30000	Analog Input 3 Low level
50674	UInt8	0	0	1	Analog Input 3 Event only
50675	UInt16	10	0	65535	Analog Input 3 Average
50680	UInt8	0	0	3	Analog Input 4 Priority
50681	UInt8	3	0	6	Analog Input 4 Operand
50682	UInt16	0	0	30000	Analog Input 4 High level
50683	UInt16	0	0	30000	Analog Input 4 Low level
50684	UInt8	0	0	1	Analog Input 4 Event only
50685	UInt16	10	0	65535	Analog Input 4 Average
50190	UInt8	0	0	3	Digital Output 1 Priority
50191	UInt8	0	0	6	Digital Output 1 Operand
50192	UInt8	0	0	1	Digital Output 1 High level
50193	UInt8	0	0	1	Digital Output 1 Low level
50194	UInt8	0	0	1	Digital Output 1 Event only
50195	UInt16	1	0	65535	Digital Output 1 Average
50300	UInt8	0	0	3	Digital Output 2 Priority
50301	UInt8	0	0	6	Digital Output 2 Operand
50302	UInt8	0	0	1	Digital Output 2 High level
50303	UInt8	0	0	1	Digital Output 2 Low level
50304	UInt8	0	0	1	Digital Output 2 Event only
50305	UInt16	1	0	65535	Digital Output 2 Average
50690	UInt8	0	0	3	Digital Output 3 Priority
50691	UInt8	0	0	6	Digital Output 3 Operand
50192	UInt8	0	0	1	Digital Output 3 High level
50693	UInt8	0	0	1	Digital Output 3 Low level
50694	UInt8	0	0	1	Digital Output 3 Event only
50695	UInt16	1	0	65535	Digital Output 3 Average
50700	UInt8	0	0	3	Digital Output 4 Priority
50701	UInt8	0	0	6	Digital Output 4 Operand
50702	UInt8	0	0	1	Digital Output 4 High level
50703	UInt8	0	0	1	Digital Output 4 Low level
50704	UInt8	0	0	1	Digital Output 4 Event only

50705	Uint16	1	0	65535	Digital Output 4 Average
50220	Uint8	0	0	3	Axis X Priority
50221	Uint8	3	0	6	Axis X Operand
50222	Uint16	0	-8000	8000	Axis X High level
50223	Uint16	0	-8000	8000	Axis X Low level
50224	Uint8	0	0	1	Axis X Event only
50225	Uint16	1	0	65535	Axis X Average
50230	Uint8	0	0	3	Axis Y Priority
50231	Uint8	3	0	6	Axis Y Operand
50232	Uint16	0	-8000	8000	Axis Y High level
50233	Uint16	0	-8000	8000	Axis Y Low level
50234	Uint8	0	0	1	Axis Y Event only
50235	Uint16	1	0	65535	Axis Y Average
50240	Uint8	0	0	3	Axis Z Priority
50241	Uint8	3	0	6	Axis Z Operand
50242	Uint16	0	-8000	8000	Axis Z High level
50243	Uint16	0	-8000	8000	Axis Z Low level
50244	Uint8	0	0	1	Axis Z Event only
50245	Uint16	1	0	65535	Axis Z Average
50820	Uint8	0	0	3	IMSI Priority
50821	Uint8	0	0	6	IMSI Operand
50822	Uint8	0	0	1	IMSI Event only
50250	Uint8	0	0	3	ICCID Priority
50251	Uint8	3	0	6	ICCID Operand
50254	Uint8	0	0	1	ICCID Event only
50260	Uint8	0	0	3	SD Status Priority
50261	Uint8	3	0	6	SD Status Operand
50262	Uint8	0	0	1	SD Status High level
50263	Uint8	0	0	1	SD Status Low level
50310	Uint8	0	0	3	Dallas Temperature 1 Priority
50311	Uint8	3	0	6	Dallas Temperature 1 Operand
50312	Int8	0	-55	125	Dallas Temperature 1 High level
50313	Int8	0	-55	125	Dallas Temperature 1 Low level
50314	Uint8	0	0	1	Dallas Temperature 1 Event only
50315	Uint16	0	0	65535	Dallas Temperature 1 Average
50320	Uint8	0	0	3	Dallas Temperature 2 Priority
50321	Uint8	3	0	6	Dallas Temperature 2 Operand
50322	Int8	0	-55	125	Dallas Temperature 2 High level
50323	Int8	0	-55	125	Dallas Temperature 2 Low level
50324	Uint8	0	0	1	Dallas Temperature 2 Event only
50325	Uint16	0	0	65535	Dallas Temperature 2 Average
50330	Uint8	0	0	3	Dallas Temperature 3 Priority
50331	Uint8	3	0	6	Dallas Temperature 3 Operand
50332	Int8	0	-55	125	Dallas Temperature 3 High level
50333	Int8	0	-55	125	Dallas Temperature 3 Low level
50334	Uint8	0	0	1	Dallas Temperature 3 Event only
50335	Uint16	0	0	65535	Dallas Temperature 3 Average
50340	Uint8	0	0	3	Dallas Temperature 4 Priority
50341	Uint8	3	0	6	Dallas Temperature 4 Operand
50342	Int8	0	-55	125	Dallas Temperature 4 High level
50343	Int8	0	-55	125	Dallas Temperature 4 Low level
50344	Uint8	0	0	1	Dallas Temperature 4 Event only
50345	Uint16	0	0	65535	Dallas Temperature 4 Average
50720	Uint8	0	0	3	Dallas Temperature 5 Priority
50721	Uint8	3	0	6	Dallas Temperature 5 Operand
50722	Int8	0	-55	125	Dallas Temperature 5 High level
50723	Int8	0	-55	125	Dallas Temperature 5 Low level
50724	Uint8	0	0	1	Dallas Temperature 5 Event only
50725	Uint16	0	0	65535	Dallas Temperature 5 Average

50750	UInt8	0	0	3	Dallas Temperature 6 Priority
50751	UInt8	3	0	6	Dallas Temperature 6 Operand
50752	Int8	0	-55	125	Dallas Temperature 6 High level
50753	Int8	0	-55	125	Dallas Temperature 6 Low level
50754	UInt8	0	0	1	Dallas Temperature 6 Event only
50755	UInt16	0	0	65535	Dallas Temperature 6 Average
50350	UInt8	0	0	3	Dallas Temperature ID 1 Priority
50351	UInt8	3	0	6	Dallas Temperature ID 1 Operand
50352	UInt32	0	0	999999999	Dallas Temperature ID 1 High level
50353	UInt32	0	0	999999999	Dallas Temperature ID 1 Low level
50354	UInt8	0	0	1	Dallas Temperature ID 1 Event only
50355	UInt16	0	0	65535	Dallas Temperature ID 1 Average
50360	UInt8	0	0	3	Dallas Temperature ID 2 Priority
50361	UInt8	3	0	6	Dallas Temperature ID 2 Operand
50362	UInt32	0	0	999999999	Dallas Temperature ID 2 High level
50363	UInt32	0	0	999999999	Dallas Temperature ID 2 Low level
50364	UInt8	0	0	1	Dallas Temperature ID 2 Event only
50365	UInt16	0	0	65535	Dallas Temperature ID 2 Average
50370	UInt8	0	0	3	Dallas Temperature ID 3 Priority
50371	UInt8	3	0	6	Dallas Temperature ID 3 Operand
50372	UInt32	0	0	999999999	Dallas Temperature ID 3 High level
50373	UInt32	0	0	999999999	Dallas Temperature ID 3 Low level
50374	UInt8	0	0	1	Dallas Temperature ID 3 Event only
50375	UInt16	0	0	65535	Dallas Temperature ID 3 Average
50380	UInt8	0	0	3	Dallas Temperature ID 4 Priority
50381	UInt8	3	0	6	Dallas Temperature ID 4 Operand
50382	UInt32	0	0	999999999	Dallas Temperature ID 4 High level
50383	UInt32	0	0	999999999	Dallas Temperature ID 4 Low level
50384	UInt8	0	0	1	Dallas Temperature ID 4 Event only
50385	UInt16	0	0	65535	Dallas Temperature ID 4 Average
50740	UInt8	0	0	3	Dallas Temperature ID 5 Priority
50741	UInt8	3	0	6	Dallas Temperature ID 5 Operand
50742	UInt32	0	0	999999999	Dallas Temperature ID 5 High level
50743	UInt32	0	0	999999999	Dallas Temperature ID 5 Low level
50744	UInt8	0	0	1	Dallas Temperature ID 5 Event only
50745	UInt16	0	0	65535	Dallas Temperature ID 5 Average
50750	UInt8	0	0	3	Dallas Temperature ID 6 Priority
50751	UInt8	3	0	6	Dallas Temperature ID 6 Operand
50752	UInt32	0	0	999999999	Dallas Temperature ID 6 High level
50753	UInt32	0	0	999999999	Dallas Temperature ID 6 Low level
50754	UInt8	0	0	1	Dallas Temperature ID 6 Event only
50755	UInt16	0	0	65535	Dallas Temperature ID 6 Average
50390	UInt8	0	0	3	iButton Priority
50391	UInt8	3	0	6	iButton Operand
50392	UInt32	0	0	999999999	iButton High level
50393	UInt32	0	0	999999999	iButton Low level
50394	UInt8	0	0	1	iButton Event only
50395	UInt16	0	0	65535	iButton Average
50400	UInt8	0	0	3	RFID Priority
50401	UInt8	3	0	6	RFID Operand
50402	UInt8	0	0	999999999	RFID High level
50403	UInt8	0	0	999999999	RFID Low level
50404	UInt8	0	0	1	RFID Event only
50405	UInt16	1	0	65535	RFID Average
50710	UInt8	0	0	3	RFID2 Priority
50711	UInt8	3	0	6	RFID2 Operand
50712	UInt8	0	0	999999999	RFID2 High level
50713	UInt8	0	0	999999999	RFID2 Low level
50714	UInt8	0	0	1	RFID2 Event only

50715	Uint16	1	0	65535	RFID2 Average
50410	Uint8	0	0	3	LLS1 Fuel Level Priority
50411	Uint8	3	0	6	LLS1 Fuel Level Operand
50412	Uint8	0	0	65535	LLS1 Fuel Level High level
50413	Uint8	0	0	65535	LLS1 Fuel Level Low level
50414	Uint8	0	0	1	LLS1 Fuel Level Event only
50415	Uint16	1	0	65535	LLS1 Fuel Level Average
50420	Uint8	0	0	3	LLS2 Fuel Level Priority
50421	Uint8	3	0	6	LLS2 Fuel Level Operand
50422	Uint8	0	0	65535	LLS2 Fuel Level High level
50423	Uint8	0	0	65535	LLS2 Fuel Level Low level
50424	Uint8	0	0	1	LLS2 Fuel Level Event only
50425	Uint16	1	0	65535	LLS2 Fuel Level Average
50430	Uint8	0	0	3	LLS3 Fuel Level Priority
50431	Uint8	3	0	6	LLS3 Fuel Level Operand
50432	Uint8	0	0	65535	LLS3 Fuel Level High level
50433	Uint8	0	0	65535	LLS3 Fuel Level Low level
50434	Uint8	0	0	1	LLS3 Fuel Level Event only
50435	Uint16	1	0	65535	LLS3 Fuel Level Average
50440	Uint8	0	0	3	LLS4 Fuel Level Priority
50441	Uint8	3	0	6	LLS4 Fuel Level Operand
50442	Uint8	0	0	65535	LLS4 Fuel Level High level
50443	Uint8	0	0	65535	LLS4 Fuel Level Low level
50444	Uint8	0	0	1	LLS4 Fuel Level Event only
50445	Uint16	1	0	65535	LLS4 Fuel Level Average
50450	Uint8	0	0	3	LLS5 Fuel Level Priority
50451	Uint8	3	0	6	LLS5 Fuel Level Operand
50452	Uint8	0	0	65535	LLS5 Fuel Level High level
50453	Uint8	0	0	65535	LLS5 Fuel Level Low level
50454	Uint8	0	0	1	LLS5 Fuel Level Event only
50455	Uint16	1	0	65535	LLS5 Fuel Level Average
50460	Uint8	0	0	3	LLS1 Temperature Priority
50461	Uint8	3	0	6	LLS1 Temperature Operand
50462	Uint8	0	-128	127	LLS1 Temperature High level
50463	Uint8	0	-128	127	LLS1 Temperature Low level
50464	Uint8	0	0	1	LLS1 Temperature Event only
50465	Uint16	1	0	65535	LLS1 Temperature Average
50470	Uint8	0	0	3	LLS2 Temperature Priority
50471	Uint8	3	0	6	LLS2 Temperature Operand
50472	Uint8	0	-128	127	LLS2 Temperature High level
50473	Uint8	0	-128	127	LLS2 Temperature Low level
50474	Uint8	0	0	1	LLS2 Temperature Event only
50475	Uint16	1	0	65535	LLS2 Temperature Average
50480	Uint8	0	0	3	LLS3 Temperature Priority
50481	Uint8	3	0	6	LLS3 Temperature Operand
50482	Uint8	0	-128	127	LLS3 Temperature High level
50483	Uint8	0	-128	127	LLS3 Temperature Low level
50484	Uint8	0	0	1	LLS3 Temperature Event only
50485	Uint16	1	0	65535	LLS3 Temperature Average
50490	Uint8	0	0	3	LLS4 Temperature Priority
50491	Uint8	3	0	6	LLS4 Temperature Operand
50492	Uint8	0	-128	127	LLS4 Temperature High level
50493	Uint8	0	-128	127	LLS4 Temperature Low level
50494	Uint8	0	0	1	LLS4 Temperature Event only
50495	Uint16	1	0	65535	LLS4 Temperature Average
50500	Uint8	0	0	3	LLS5 Temperature Priority
50501	Uint8	3	0	6	LLS5 Temperature Operand
50502	Uint8	0	-128	127	LLS5 Temperature High level
50503	Uint8	0	-128	127	LLS5 Temperature Low level

50504	Uint8	0	0	1	LLS5 Temperature Event only
50505	Uint16	1	0	65535	LLS5 Temperature Average
50780	Uint8	0	0	3	Ultrasonic UL202 Fuel level 1 Priority
50781	Uint8	3	0	6	Ultrasonic UL202 Fuel level 1 Operand
50782	Uint8	0	-20	32767	Ultrasonic UL202 Fuel level 1 High level
50783	Uint8	0	-20	32767	Ultrasonic UL202 Fuel level 1 Low level
50784	Uint8	0	0	1	Ultrasonic UL202 Fuel level 1 Event only
50785	Uint16	1	0	65535	Ultrasonic UL202 Fuel level 1 Average
50790	Uint8	0	0	3	Ultrasonic UL202 Fuel level 2 Priority
50791	Uint8	3	0	6	Ultrasonic UL202 Fuel level 2 Operand
50792	Uint8	0	-20	32767	Ultrasonic UL202 Fuel level 2 High level
50793	Uint8	0	-20	32767	Ultrasonic UL202 Fuel level 2 Low level
50794	Uint8	0	0	1	Ultrasonic UL202 Fuel level 2 Event only
50795	Uint16	1	0	65535	Ultrasonic UL202 Fuel level 2 Average
50800	Uint8	0	0	3	Ultrasonic UL202 Status 1 Priority
50801	Uint8	3	0	6	Ultrasonic UL202 Status 1 Operand
50802	Uint8	0	0	255	Ultrasonic UL202 Status 1 High level
50803	Uint8	0	0	255	Ultrasonic UL202 Status 1 Low level
50804	Uint8	0	0	1	Ultrasonic UL202 Status 1 Event only
50805	Uint16	1	0	65535	Ultrasonic UL202 Status 1 Average
50810	Uint8	0	0	3	Ultrasonic UL202 Status 2 Priority
50811	Uint8	3	0	6	Ultrasonic UL202 Status 2 Operand
50812	Uint8	0	0	255	Ultrasonic UL202 Status 2 High level
50813	Uint8	0	0	255	Ultrasonic UL202 Status 2 Low level
50814	Uint8	0	0	1	Ultrasonic UL202 Status 2 Event only
50815	Uint16	1	0	65535	Ultrasonic UL202 Status 2
50650	Uint8	0	0	3	Network type Priority
50651	Uint8	3	0	6	Network type Operand
50652	Uint8	0	0	1	Network type High level
50653	Uint8	0	0	1	Network type Low level
50654	Uint8	0	0	1	Network type Event only

- I/O parameters and types

Parameter name	Value
Priority	0 - Disabled
	1 - Low
	2 - High
	3 - Panic
Operand	0 - On Exit
	1 - On Entrance
	2 - On Both
	3 - Monitoring
	4 - On Hysteresis
	5 - On Change
Event only	6 - On Delta Change
	0 - Disabled
	1 - Enabled

LVCAN

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
45000	Uint8	0	0	2	0 - Auto detect 1 - LV-CAN200 2 - ALL-CAN300	LVCAN Mode
45001	Uint8	0	0	1	0 - Disable 1 - Enable	Send data with 0, if ignition is off
45002	Uint16	0	0	99999	Value	Program number

- LVCAN parameter configuration

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
45100	Uint8	0	0	3	0 - Disabled 1 - Low 2 - High 3 - Panic	Priority
45101	Uint8	3	0	6	0 - On range exit 1 - On range entrance 2 - On both 3 - Monitoring 4 - Hysteresis 5 - On change 6 - On delta change	Operand
45102	Uint8	0	0	255	High value	High level
45103	Uint8	0	0	255	Low value	Low level
45104	Uint8	0	0	1	0 - Disable 1 - Enable	Event only
45105	Uint16	10	0	65535	Value	Averaging constant

Similarly to a group defined in the upper table:

FMS

- FMS parameter configuration:

Name	Parameter				
	Priority	Operand	High level	Low level	Event only
Brake switch	46000	46001	-	-	46004
Wheel based speed	46010	46011	46012	46013	46014
Cruise control active	46020	46021	-	-	46024
Clutch switch	46030	46031	-	-	46034
PTO state	46040	46041	-	-	46044
Accelerator pedal position 1 X	46050	46051	46052	46053	46054
Engine Percent Load At Current Speed X	46060	46061	46062	46063	46064
Engine total fuel used	46070	46071	46072	46073	46074
fuel level 1 X	46080	46081	46082	46083	46084
Engine speed X	46090	46091	46092	46093	46094
Axle location (every 10)	46100-46240	46101-46241	46102-46242	46103-46243	46104-46244
Tire location	-	-	-	-	-
Axle weight	-	-	-	-	-
Engine total hours of Operation X	46250	46251	46252	46253	46254
vehicle identification number X	46260	46261	-	-	46264
SW-version supported X	46270	46271	-	-	46274

Diagnostics supported X	46280	46281	-	-	46284
Requests supported X	46290	46291	-	-	46294
Service distance	46310	46311	46312	46313	46314
Direction indicator	46400	46401	-	-	46404
Tachograph performance X	46410	46411	-	-	46414
Handling information X	46420	46421	-	-	46424
System event X	46430	46431	-	-	46434
engine coolant temperature X	46450	46451	46452	46453	46454
Ambient Air Temperature X	46460	46461	46462	46463	46464
Fuel rate	46490	46491	46492	46493	46494
Instantaneous Fuel Economy	46500	46501	46502	46503	46504
PTO drive engagement	46510	46511	-	-	46514
High resolution engine total fuel used	46520	46521	46522	46523	46524
Combined vehicle weight	46530	46531	46532	46533	46534
AdBlue Status	46550	46551	-	-	46554
Fuel Level 2	46560	46561	-	-	46564
Engine MIL Indicator	46570	46571	-	-	46574
Tell Tale ID0	46580	46581	-	-	46584
Tell Tale ID1	46590	46591	-	-	46594
Tell Tale ID2	46600	46601	-	-	46604
Tell Tale ID3	46610	46611	-	-	46614
Brake Pedal Position	46540	46541	46542	46543	46544
AdBlue level	46810	46811	46812	46813	46814

Manual CAN

- Manual CAN parameter configuration:

Example: setparam 47290:2;47291:96;47292:218047805;47293:0;47294:5

CAN9	0	Disabled	Standard (11-bit)	Extended (29-bit)	MSB <input type="checkbox"/> 8 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> LSB	On Change	0CFF253D	CAN1	CAN2
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Priority **Output Data Mask** **CAN ID** **CAN SOURCE** **Operand**

0 - Disable 4 bytes HEX identifier.
 1 - 11bit Decimal value For more information check [Manual CAN page](#)
 2 - 29bit 0 - CAN1 3 - Monitoring
 1 - CAN2 5 - OnChange

Name	Parameter				
	Priority	Output Data Mask	CAN ID	CAN Source	Operand
CAN0	47000	47001	47002	47003	47004
CAN1	47010	47011	47012	47013	47014
CAN2	47020	47021	47022	47023	47024
CAN3	47030	47031	47032	47033	47034
CAN4	47040	47041	47042	47043	47044
CAN5	47050	47051	47052	47053	47054
CAN6	47060	47061	47062	47063	47064
CAN7	47070	47071	47072	47073	47074
CAN8	47080	47081	47082	47083	47084
CAN9	47090	47091	47092	47093	47094
CAN10	47200	47201	47202	47203	47204
CAN11	47210	47211	47212	47213	47214
CAN12	47220	47221	47222	47223	47224
CAN13	47230	47231	47232	47233	47234

CAN14	47240	47241	47242	47243	47244
CAN15	47250	47251	47252	47253	47254
CAN16	47260	47261	47262	47263	47264
CAN17	47270	47271	47272	47273	47274
CAN18	47280	47281	47282	47283	47284
CAN19	47290	47291	47292	47293	47294
CAN20	90000	90001	90002	90003	90004
CAN21	90010	90011	90012	90013	90014
CAN22	90020	90021	90022	90023	90024
CAN23	90030	90031	90032	90033	90034
CAN24	90040	90041	90042	90043	90044
CAN25	90050	90051	90052	90053	90054
CAN26	90060	90061	90062	90063	90064
CAN27	90070	90071	90072	90073	90074
CAN28	90080	90081	90082	90083	90084
CAN29	90090	90091	90092	90093	90094
CAN30	90100	90101	90102	90103	90104
CAN31	90110	90111	90112	90113	90114
CAN32	90120	90121	90122	90123	90124
CAN33	90130	90131	90132	90133	90134
CAN34	90140	90141	90142	90143	90144
CAN35	90150	90151	90152	90153	90154
CAN36	90160	90161	90162	90163	90164
CAN37	90170	90171	90172	90173	90174
CAN38	90180	90181	90182	90183	90184
CAN39	90190	90191	90192	90193	90194
CAN40	90200	90201	90202	90203	90204
CAN41	90210	90211	90212	90213	90214
CAN42	90220	90221	90222	90223	90224
CAN43	90230	90231	90232	90233	90234
CAN44	90240	90241	90242	90243	90244
CAN45	90250	90251	90252	90253	90254
CAN46	90260	90261	90262	90263	90264
CAN47	90270	90271	90272	90273	90274
CAN48	90280	90281	90282	90283	90284
CAN49	90290	90291	90292	90293	90294
CAN50	90300	90301	90302	90303	90304
CAN51	90310	90311	90312	90313	90314
CAN52	90320	90321	90322	90323	90324
CAN53	90330	90331	90332	90333	90334
CAN54	90340	90341	90342	90343	90344
CAN55	90350	90351	90352	90353	90354
CAN56	90360	90361	90362	90363	90364
CAN57	90370	90371	90372	90373	90374
CAN58	90380	90381	90382	90383	90384
CAN59	90390	90391	90392	90393	90394
CAN60	90400	90401	90402	90403	90404
CAN61	90410	90411	90412	90413	90414
CAN62	90420	90421	90422	90423	90424
CAN63	90430	90431	90432	90433	90434
CAN64	90440	90441	90442	90443	90444
CAN65	90450	90451	90452	90453	90454
CAN66	90460	90461	90462	90463	90464
CAN67	90470	90471	90472	90473	90474
CAN68	90480	90481	90482	90483	90484

Tachograph data

- Vehicle Data Priority Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
71090	Uint8	0	0	4	0 - Disable 1 - Priority 1 2 - Priority 2 3 - Priority 3 4 - Priority 4	K-line priority
71091	Uint8	0	0	4	0 - Disable 1 - Priority 1 2 - Priority 2 3 - Priority 3 4 - Priority 4	ALLCAN priority
71092	Uint8	0	0	4	0 - Disable 1 - Priority 1 2 - Priority 2 3 - Priority 3 4 - Priority 4	TachoCAN priority
71093	Uint8	0	0	4	0 - Disable 1 - Priority 1 2 - Priority 2 3 - Priority 3 4 - Priority 4	FMS priority

- Tachograph Settings

Parameter ID	Parameter Type	Default value	Value range		Parameter name
			Min	Max	
230	Uint32	0	0	99999999	Tachograph periodic record timeout

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
231	Uint8	0	0	1	0 - Disable 1 - Enable	Send data with last good value

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
232	Uint8	0	0	1	0 - Disable 1 - Enable	Include Tachograph data into regular record

- Tachograph parameter configuration

Name	Parameter				
	Priority	Operand	High level	Low level	Event only
Timestamp	47500	47501	-	-	47504
Drive recognize	47510	47511	-	-	47514
Over speeding	47520	47521	-	-	47524
Vehicle speed	47530	47531	47532	47533	47534
Odometer	47540	47541	-	-	47544
Distance	47550	47551	-	-	47554
VIN	47560	47561	-	-	47564
VRN	47570	47571	-	-	47574

Driver 1 working state	47580	47581	-	-	47584
Driver 2 working state	47590	47591	-	-	47594
Driver 1 card	47600	47601	-	-	47604
Driver 2 card	47610	47611	-	-	47514
Driver 1 Time related states	47620	47621	-	-	47624
Driver 2 Time related states	47630	47631	-	-	47634
Driver 1 identification number	47640	47641	-	-	47644
Driver 2 identification number	47650	47651	-	-	47654
Card 1 issuing member state	47660	47661	-	-	47664
Card 2 issuing member state	47670	47671	-	-	47674
Driver 1 Continuous Drive time	47680	47681	-	-	47684
Driver 2 Continuous Drive time	47690	47691	-	-	47694
Driver 1 Cumulative Break time	47700	47701	-	-	47704
Driver 2 Cumulative Break time	47710	47711	-	-	47714
Driver 1 Selected activity duration	47720	47721	-	-	47724
Driver 2 Selected activity duration	47730	47731	-	-	47734
Driver 1 Cumulative Driving time	47740	47741	-	-	47744
Driver 2 Cumulative Driving time	47750	47751	-	-	47754
Data Source	47770	47771	-	-	47774
Drivers hours rules pre warning time delay	47780	47781	-	-	47784
Out of scope condition	47790	47791	-	-	47794
Next calibration date	47800	47801	-	-	47804
Driver 1 end of last daily rest report	47810	47811	-	-	47814
Driver 2 end of last daily rest report	47880	47881	-	-	47884
Driver 1 end of last weekly rest period	47820	47821	-	-	47824
Driver 2 end of last weekly rest period	47890	47891	-	-	47894
Driver 1 end of second last weekly rest period	47830	47831	-	-	47834
Driver 2 end of second last weekly rest period	47900	47901	-	-	47904
Driver 1 current daily driving time	47840	47841	-	-	47844
Driver 2 current daily driving time	47910	47911	-	-	47914
Driver 1 current weekly driving time	47850	47851	-	-	47854
Driver 2 current weekly driving time	47920	47921	-	-	47924
Driver 1 time left until new daily rest period	47860	47861	-	-	47864
Driver 2 time left until new daily rest period	47930	47931	-	-	47934
Driver 1 number of times 9h daily driving time exceeds	47870	47871	-	-	47874
Driver 2 number of times 9h daily driving time exceeds	47940	47941	-	-	47944
Driver 1 Name	47950	47951	-	-	47954
Driver 1 Surname	47960	47961	-	-	47964
Driver 2 Name	47970	47971	-	-	47974
Driver 2 Surname	47980	47981	-	-	47984

RS232/RS485

- Garmin

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
157	UInt8	0	0	3	0 - No filter 1 - Ping filter 2 - Unicode filter 3 - Ping and Unicode filters	Garmin Features

- RS485

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
160	Uint8	0	0	8	0 - Disable 1 - Silent 2 - Log Mode 3 - NMEA 4 - LLS 5 - TCP ASCII 6 - TCP Binary 7 - TCP ASCII Buffered 8 - TCP Binary Buffered	RS485 working mode
161	Uint8	Depends on selected Mode	0	115200	0 - Default 1200 2400 9600 14400 19200 38400 57600 115200	Baudrate

- LLS

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
162	Uint8	0	0	254	Number	LLS 1 Address
163	Uint8	0	0	254	Number	LLS 2 Address
164	Uint8	0	0	254	Number	LLS 3 Address
165	Uint8	0	0	254	Number	LLS 4 Address
166	Uint8	0	0	254	Number	LLS 5 Address

- RS232 COM1

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
151	Uint8	0	0	14	0 - Silent 1 - Log Mode 2 - NMEA 3 - LLS 4 - LCD 5 - RFID HID 6 - RFID MF7 7 - Garmin FMI 8 - TCP ASCII 9 - TCP Binary 10 - TCP ASCII Buffered 11 - TCP Binary Buffered 12 - REC to LCD 13 - ATOL tachograph 14 - UL202-2 Fuel Sensor	Mode

152	Uint8	Depends on selected Mode	0	115200	0 - Default 1200 2400 9600 14400 19200 38400 57600 115200	Baudrate
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- RS232 COM2

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
173	Uint8	0	0	14	0 - Silent 1 - Log Mode 2 - NMEA 3 - LLS 4 - LCD 5 - RFID HID 6 - RFID MF7 7 - Garmin FMI 8 - TCP ASCII 9 - TCP Binary 10 - TCP ASCII Buffered 11 - TCP Binary Buffered 12 - REC to LCD 13 - ATOL tachograph 14 - UL202-2 Fuel Sensor	Mode
174	Uint8	Depends on selected Mode	0	115200	0 - Default 1200 2400 9600 14400 19200 38400 57600 115200	Baudrate

CAN \ Tachograph

- CAN1 Bus Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
205	Uint16	250	0	1000	Bus speed	CAN1 Bus Speed
206	Uint8	0	0	1	0 - Silent 1 - Normal	CAN1 Bus Mode

- CAN2 Bus Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
207	Uint16	250	0	1000	Bus speed	CAN2 Bus Speed

208	Uint8	0	0	1	0 - Silent 1 - Normal	CAN2 Bus Mode
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- Tachograph Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
209	Uint8	1	0	1	0 - CAN1 1 - CAN2	Tachograph DDD download source
200	Uint8	0	0	1	Boolean	Tachograph WEB Enable
201	S8[55]	empty	empty	55 symbols	Internet address	WEB Tacho Domain
202	Uint16	0	0	65535	Port number	WEB Tacho Port
203	Uint8	0	0	255	Minutes	WEB Tacho start delay
204	Uint8	0	0	4	0 - Ignition 1 - DIN1 2 - DIN2 3 - DIN3 4 - DIN4	Tachograph ignition source

- FMS Settings

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
210	Uint8	0	0	1	0 - CAN1 1 - CAN2	FMS data source
212	Uint8	0	0	1	0 - CAN1 1 - CAN2	Manual CAN Settings

Continental TPMS

- TPMS Request Period

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
65026	Uint16	0	0	65535	Time	TPMS Period

- Continental TPMS parameter configuration

Name	Parameter				
	Priority	Operand	High level	Low level	Event only
Total Tire Controlled	80000	80001	80002	80003	80004
Total Number of AXL	80010	80011	80012	80013	80014
Graphical Position	80020	80021	80022	80023	80024
Tire 1	80030	80031	80032	80033	80034
Tire 2	80040	80041	80042	80043	80044
Tire 3	80050	80051	80052	80053	80054
Tire 4	80060	80061	80062	80063	80064
Tire 5	80070	80071	80072	80073	80074
Tire 6	80080	80081	80082	80083	80084
Tire 7	80090	80091	80092	80093	80094
Tire 8	80100	80101	80102	80103	80104
Tire 9	80110	80111	80112	80113	80114
Tire 10	80120	80121	80122	80123	80124
Tire 11	80130	80131	80132	80133	80134
Tire 12	80140	80141	80142	80143	80144

Tire 13	80150	80151	80152	80153	80154
Tire 14	80160	80161	80162	80163	80164
Tire 15	80170	80171	80172	80173	80174
Tire 16	80180	80181	80182	80183	80184
Tire 17	80190	80191	80192	80193	80194
Tire 18	80200	80201	80202	80203	80204
Tire 19	80210	80211	80212	80213	80214
Tire 20	80220	80221	80222	80223	80224
Tire 21	80230	80231	80232	80233	80234
Tire 22	80240	80241	80242	80243	80244
Tire 23	80250	80251	80252	80253	80254
Tire 24	80260	80261	80262	80263	80264

Mobileye

- Mobileye parameter configuration:

Name	Parameter				
	Priority	Operand	High level	Low level	Event only
ME Sound Type	73000	73001	73002	73003	73004
ME Pedestrians in DZ	73010	73011	73012	73013	73014
ME Pedestrians in FCW	73020	73021	73022	73023	73024
ME Time Indicator	73030	73031	73032	73033	73034
ME Error Valid	73040	73041	73042	73043	73044
ME Error Code	73050	73051	73052	73053	73054
ME Zero Speed	73060	73061	73062	73063	73064
ME Headway Valid	73070	73071	73072	73073	73074
ME Headway Measurement	73080	73081	73082	73083	73084
ME LDW Off	73090	73091	73092	73093	73094
ME Left LDW On	73100	73101	73102	73103	73104
ME Right LDW On	73110	73111	73112	73113	73114
ME Maintenance	73120	73121	73122	73123	73124
ME Fail Safe	73130	73131	73132	73133	73134
ME FCW On	73140	73141	73142	73143	73144
ME TSR Enabled	73150	73151	73152	73153	73154
ME Headway Warning Repeat Enabled	73160	73161	73162	73163	73164
ME Headway Warning Level	73170	73171	73172	73173	73174
ME TSR Warning Level	73180	73181	73182	73183	73184
ME Tamper Alert	73190	73191	73192	73193	73194
ME High Beam	73200	73201	73202	73203	73204
ME Low Beam	73210	73211	73212	73213	73214
ME Wipers	73220	73221	73222	73223	73224
ME Right Signal	73230	73231	73232	73233	73234
ME Left Signal	73240	73241	73242	73243	73244
ME Brake Signal	73250	73251	73252	73253	73254
ME Wipers Available	73260	73261	73262	73263	73264
ME Low Beam Available	73270	73271	73272	73273	73274
ME High Beam Available	73280	73281	73282	73283	73284
ME Speed Available	73290	73291	73292	73293	73294
ME Speed	73300	73301	73302	73303	73304
ME TSR 01	73310	73311	73312	73313	73314
ME TSR 02	73320	73321	73322	73323	73324
ME TSR 03	73330	73331	73332	73333	73334
ME TSR 04	73340	73341	73342	73343	73344
ME TSR 05	73350	73351	73352	73353	73354

ME TSR 06	73360	73361	73362	73363	73364
ME TSR 07	73370	73371	73372	73373	73374
ME TSR VO	73380	73381	73382	73383	73384

Reefer

- Reefer parameter configuration:

Name	Parameter				
	Priority	Operand	High level	Low level	Event only
Zone 1 Return Air Temperature 1	48270	48271	48272	48273	48274
Zone 1 Return Air Temperature 2	48310	48311	48312	48313	48314
Zone 1 Supply Air Temperature 1	48280	48281	48282	48283	48284
Zone 1 Supply Air Temperature 2	48320	48321	48322	48323	48324
Zone 1 Set Temperature	48290	48291	48292	48293	48294
Zone 2 Supply Air Temperature 1	48370	48371	48372	48373	48374
Zone 2 Return Air Temperature 1	48360	48361	48362	48363	48364
Zone 2 Set Temperature	48380	48381	48382	48383	48384
Ambient Air Temperature	48510	48511	48512	48513	48514
Compressor Coolant Temperature	48520	48521	48522	48523	48524
Compressor RPM	48540	48541	48542	48543	48544
Compressor Config	48550	48551	48552	48553	48554
Battery Voltage (V*10)	48210	48211	48212	48213	48214
Compressor Motor Work Minutes (HM)	48241	48241	48242	48243	48244
Reefer work Minutes (HMT)	48230	48231	48232	48233	48234
Electric Minutes (HME)	48220	48221	48222	48223	48224
Door Status	48560	48561	48562	48563	48564
Installation Serial	48570	48571	48572	48573	48574
Trailer Registration Number	48580	48581	48582	48583	48584
Error Count	48530	48530	48530	48530	48530
Alarm 1	48260	48261	48262	48263	48264
Alarm 2	48350	48351	48352	48353	48354
Alarm 3	48440	48441	48442	48443	48444