FM36YX Device Family Parameter list

Contents

- 1 Parameters value types
- 2 System parameters
- 3 Records parameters
- 4 GSM parameters
  - 4.1 GPRS
  - 4.2 SMS
  - 4.3 Operator list
- 5 Data aquisition parameters
  - 5.1 Home Network GSM operator code "Vehicle on STOP" parameters
  - 5.2 Home Network GSM operator code "Vehicle MOVING" parameters
  - 5.3 Roaming Network GSM operator code “Vehicle on STOP” parameters
  - 5.4 Roaming Network GSM operator code “Vehicle MOVING” parameters
  - 5.5 Unknown Network GSM operator code “Vehicle on STOP” parameters
  - 5.6 Unknown Network GSM operator code “Vehicle MOVING” parameters
- 6 Features parameters
  - 6.1 Green Driving scenario
  - 6.2 Over Speeding
  - 6.3 Jamming
  - 6.4 Immobilizer
  - 6.5 Excessive Idling detection
  - 6.6 Trip
  - 6.7 Geofencing
  - 6.8 Crash Detection
- 7 I/O parameters
- 8 LV-CAN Features
- 9 SMS EVENT CONFIGURATION

Parameters value types

- S8 – Signed Char
- S8[n] – String of n Char
- Uint8 (U8) – Unsigned Char
- Uint16 (U16) – Unsigned Short
- S32 – Signed Integer
- U32 – Unsigned Integer
- U64 – Unsigned Long Long Integer

System parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1000	U8	0	0	2	0 – Disabled 1 – GPS Sleep 2 – Deep Sleep	Sleep Settings
200	U8	1	1	3000	-	Sleep Timeout
1001	U8	0	0	1	0 - 10V 1 – 30V	Analog Input value range
1002	U8	1	0	3	0 - ignition 1 - Msensor 2 - GPS 3 - ignition + Msensor	Stop Detection Source
1003	U8	0	0	1	0 - Disabled 1 – Enabled	Static Navigation
1004		0	0	2	0 – Power voltage 1 – Digital input 1 2 – Msensor	Ignition Source
1005		30000 mV	13000 mV	30000 mV		High Voltage Level
1006		13000 mV	0	30000 mV		Low Voltage Level
1008		0	0	1	0 - Manual 1 – Automatic	Ignition Detection
1009	U8	10	0	65535		Ignition Detection Timeout
1007	U8	60	0	65535		GNSS FIX Timeout for Time Synchronization via NTP
201	U8	0	0	1	0 - Disabled 1 – Enabled	Saving/Sending without time synchronization
202	U8	0	0	2	0 – GNSS (all available) 1 – GPS 2 – GLONASS	Satellite System

Records parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1010	Uint8	default	0	1	0 – arranging data starting from newest 1 – arranging data starting from oldest	Sorting
1011	Uint8	60	0	259200	Seconds	Active Data Link Timeout
1012	Uint8	300	1	300	Seconds	Server Response Timeout

GSM parameters

GPRS

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

1240	S8	1	0	1	0 – GPRS is not allowed 1 – GPRS is allowed	GPRS content activation
1242	S8[32]	""	Empty	32 char string	string	APN Name
1243	S8[30]	""	Empty	30 char string	string	APN username
1244	S8[30]	""	Empty	30 char string	string	APN Password
1245	S8[16]	""	Empty	31 char string	string	Domain
1246	S8[16]	0	Empty	65535	number	Target Server Port
1247	U8	0	0	1	0 – TCP 1 – UDP	Protocol
1248	U8	0	0	1	0 – work with all networks 1 – work with 2G network 2 – work with 3G network 3 – work with 4G network	Network Type

SMS

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
ID	Uint8	default	min	max	0 – value = 0 1 – value = 1	Name
ID	Uint8	default	min	max	Value	Name
1252	S8[5]	""	Empty	5 char string	string	SMS Login
1253	S8[5]	""	Empty	5 char string	string	SMS Password
1254	U8	0	-720	+840	minutes	SMS Time Zone
1250	U8	0	0	1	0 – SMS use is not allowed 1 – SMS use is allowed	SMS data sending settings
1273		For detail info				SMS Data send week time schedule
1260-1269	S8[17]	""	0 digit	16 digit	string	Authorized phone numbers
5000-5009	S8[17]	""	0 digit	16 digit	string	SMS Event PreDefined Numbers

Operator list

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1271		For detailed info				Operator list

Data aquisition parameters

Home Network GSM operator code "Vehicle on STOP" parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1540	U32	600	0	2592000	seconds	Min Period
1543	U8	1	1	255	number	Min Saved Records
1544	U32	1	0	2592000	seconds	Send Period

1545	For detailed info		GPRS Week Time

Home Network GSM operator code "Vehicle MOVING" parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1550	U32	30	0	2592000	seconds	Min Period
1551	U32	200	0	65535	meters	Min Distance
1552	U16	20	0	180	meters	Min Angle
1556	U16	0	0	255	Value	Min Speed
1557	U8	0	0	1	0 – GPS 1 – LVCAN	Min Speed Source
1553	U8	1	1	255	number	Min Saved Records
1554	U32	1	0	2592000	seconds	Send Period
1555	For detailed info					GPRS Week Time

Roaming Network GSM operator code “Vehicle on STOP” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1560	U32	600	0	2592000	seconds	Min Period
1563	U8	10	1	255	number	Min Saved Records
1564	U32	600	0	2592000	seconds	Send Period
1565	For detailed info					GPRS Week Time

Roaming Network GSM operator code “Vehicle MOVING” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1570	U32	1200	0	2592000	seconds	Min Period
1571	U32	1000	0	65535	meters	Min Distance
1572	U16	30	0	180	meters	Min Angle
1576	U16	0	0	255	Value	Min Speed
1577	U8	0	0	1	0 – GPS 1 – LVCAN	Min Speed Source
1573	U8	10	1	255	number	Min Saved Records
1574	U32	600	0	2592000	seconds	Send Period
1575	For detailed info					GPRS Week Time

Unknown Network GSM operator code “Vehicle on STOP” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1580	U32	3600	0	2592000	seconds	Min Period
1583	U8	1	1	255	number	Min Saved Records
1584	U32	1	0	2592000	seconds	Send Period
1585	For detailed info					GPRS Week Time

Unknown Network GSM operator code “Vehicle MOVING” parameters

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1590	U32	300	0	2592000	seconds	Min Period
1591	U32	100	0	65535	meters	Min Distance
1592	U16	10	0	180	meters	Min Angle
1596	U16	0	0	255	Value	Min Speed
1597	U8	0	0	1	0 – GPS 1 – LVCAN	Min Speed Source

1593	U8	1	1	255	number	Min Saved Records
1594	U32	1	0	2592000	seconds	Send Period
1595			For detailed info			GPRS Week Time

Features parameters

Green Driving scenario

Over Speeding

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1600	U8	0	0	3	0 – disable 1 – Dout not control scenario 2 – Dout1 controls scenario 3 – Dout2 controls scenario	Green Driving scenario
1602	Float	0.25	0.25	0.85	G	Max Acceleration Force
1603	Float	0.25	0.35	0.85	G	Max Braking Force
1604	U16	0.3	0.1	1.0	G	Max Cornering Force
1605	U16	0	0	260	km/h	Max allowed Speed
1909	U8	0	0	1	0 – GPS 1 – Accelerometer	Green Driving Source

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1601	U8	0	0	3	0 – disable 1 – Dout not control scenario 2 – Dout1 controls scenario 3 – Dout2 controls scenario	OverSpeeding scenario

Jamming

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1606	U8	0	0	3	0 – disable 1 – Dout not control scenario 2 – Dout1 controls scenario 3 – Dout2 controls scenario	Jamming detection scenario

Immobilizer

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1607	U8	0	0	3	0 – disable 1 – Dout not control scenario 2 – Dout1 controls scenario 3 – Dout2 controls scenario	Immobilizer scenario

1609	U8	30	5	65535	seconds	Immobilizer ignition timeout
1608	U8	0	0	1	0 – disable 1 – enabled	iButton list checking scenario

Excessive Idling detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1610	U8	0	0	1	0 – disable 1 – enable	Excessive Idling detection
1611	U8	0	0	255	seconds	Time to stationary
1612	U8	0	0	255	seconds	Time to movement

Trip

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1280	U8	0	0	1	0 – disable 1 – enable	Trip start/stop detection
1281	U8	5	0	255	km/h	Start Speed
1282	U16	60	0	65535	seconds	Ignition Off Timeout
1283	U8	0	0	2	0 – Between records 1 – Continuous trip 1 – Continuous	Trip distance mode
1284	Uint8	-	0	1	0 – disable 1 – enable	Enable odometer value setting
1285	U32	1	0	4294967295	meters	Continuous odometer value
1286	U8	0	0	1	0 – disable 1 – enable	Name

Geofencing

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1020	U32	1000	0	1000000	meters	Frame border
Geofence Zone #1 parameters						
1030	U8	0	0	1	0 – circle 1 – rectangle	Geofence Zone #1 Shape
1031	U8	0	0	3	0 – disabled 1 – low 2 – high 3 – panic	Geofence Zone #1 Priority
1032	U8	0	0	2	0 – On exiting zone 1 – On entering zone 2 – On both	Geofence Zone #1 Generate Event
1033	Float	-	-180	180	number	Geofence Zone #1 Longitude (X1)
1034	Float	-	-90	90	number	Geofence Zone #1 Latitude (Y1)
if parameter Geofence Zone #1 Shape (1030) - rectangle						
1035	Float	0	-180	180	number	Geofence Zone #1 Longitude (X2)
1036	Float	0	-90	90	number	Geofence Zone #1 Latitude (Y2)
if parameter Geofence Zone #1 Shape (1030) - circle						
1035	Float	0	0	1000000	meter	Geofence Zone #1 radius
1036	If shape is circle, parameter ID = 1036 is not used.					

Geofence Zone #2 parameters						
1040	U8	0	0	1	0 – circle 1 – rectangle	Geofence Zone #2 Shape
1041	U8	0	0	3	0 – disabled 1 – low 2 – high 3 – panic	Geofence Zone #2 Priority
1042	U8	0	0	2	0 – On exiting zone 1 – On entering zone 2 – On both	Geofence Zone #2 Generate Event
1043	Float	-	-180	180	number	Geofence Zone #2 Longitude (X1)
1044	Float	-	-90	90	number	Geofence Zone #2 Latitude (Y1)
if parameter Geofence Zone #2 Shape (1040) - rectangle						
1045	Float	0	-180	180	number	Geofence Zone #2 Longitude (X2)
1046	Float	0	-90	90	number	Geofence Zone #2 Latitude (Y2)
if parameter Geofence Zone #2 Shape (1040) - circle						
1045	Float	0	0	1000000	meter	Geofence Zone #2 radius
1046	If shape is circle, parameter ID = 1046 is not used.					
Geofence Zone #3 parameters						
1050	U8	0	0	1	0 – circle 1 – rectangle	Geofence Zone #3 Shape
1051	U8	0	0	3	0 – disabled 1 – low 2 – high 3 – panic	Geofence Zone #3 Priority
1052	U8	0	0	2	0 – On exiting zone 1 – On entering zone 2 – On both	Geofence Zone #3 Generate Event
1053	Float	-	-180	180	number	Geofence Zone #3 Longitude (X1)
1054	Float	-	-90	90	number	Geofence Zone #3 Latitude (Y1)
if parameter Geofence Zone #3 Shape (1050) - rectangle						
1055	Float	0	-180	180	number	Geofence Zone #3 Longitude (X2)
1056	Float	0	-90	90	number	Geofence Zone #3 Latitude (Y2)
if parameter Geofence Zone #3 Shape (1050) - circle						
1055	Float	0	0	1000000	meter	Geofence Zone #3 radius
1056	If shape is circle, parameter ID = 1056 is not used.					
Geofence Zone #4 parameters						
1060	U8	0	0	1	0 – circle 1 – rectangle	Geofence Zone #4 Shape
1061	U8	0	0	3	0 – disabled 1 – low 2 – high 3 – panic	Geofence Zone #4 Priority
1062	U8	0	0	2	0 – On exiting zone 1 – On entering zone 2 – On both	Geofence Zone #4 Generate Event
1063	Float	-	-180	180	number	Geofence Zone #4 Longitude (X1)
1064	Float	-	-90	90	number	Geofence Zone #4 Latitude (Y1)
if parameter Geofence Zone #4 Shape (1060) - rectangle						

1065	Float	0	-180	180	number	Geofence Zone #4 Longitude (X2)
1066	Float	0	-90	90	number	Geofence Zone #4 Latitude (Y2)
if parameter Geofence Zone #4 Shape (1060) - circle						
1065	Float	0	0	1000000	meter	Geofence Zone #4 radius
1066	If shape is circle, parameter ID = 1066 is not used.					
Geofence Zone #5 parameters						
1070	U8	0	0	1	0 – circle 1 – rectangle	Geofence Zone #5 Shape
1071	U8	0	0	3	0 – disabled 1 – low 2 – high 3 – panic	Geofence Zone #5 Priority
1072	U8	0	0	2	0 – On exiting zone 1 – On entering zone 2 – On both	Geofence Zone #5 Generate Event
1073	Float	-	-180	180	number	Geofence Zone #5 Longitude (X1)
1074	Float	-	-90	90	number	Geofence Zone #5 Latitude (Y1)
if parameter Geofence Zone #5 Shape (1070) - rectangle						
1075	Float	0	-180	180	number	Geofence Zone #5 Longitude (X2)
1076	Float	0	-90	90	number	Geofence Zone #5 Latitude (Y2)
if parameter Geofence Zone #5 Shape (1070) - circle						
1075	Float	0	0	1000000	meter	Geofence Zone #5 radius
1076	If shape is circle, parameter ID = 1076 is not used.					

Crash Detection

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
1615	U8	0	0	2	0 – disable 1 – low 2 – high	Crash Detection
1616	U8	2000	16	8000	mG	Crash detection threshold
1617	U8	10	0	635	seconds	Crash detection duration

I/O parameters

I/O properties are additional data sources which are recorded along with usual GPS data.

Parameter ID	Parameter Type	Default value	Value range		Value	Parameter name
			Min	Max		
2000	S8	1	0	3	0 – Disabled 1 – Low 2 – High 3 – Panic	I/O#1 Priority
2003	S32	0	-2147483647	2147483647		I/O#1 High level
2002	S32	0	-2147483647	2147483647		I/O#1 Low level

2001	S8	3	0	5	0 – On Exit 1 – On Entrance 2 – On Both 3 – Monitoring 4 – Hysteresis 5 – On Change	I/O#1 Event Generation Type
2004	S32	10	0	2592000		I/O#1 Averaging Constant

Other I/O property elements can be configured in same logic. All I/O element parameters are listed in the next table.

I/O Element Number	I/O element parameters
Digital Input 1	2000-2004
Digital Input 2	2010-2014
Digital Input 3	2020-2024
Digital Input 4	2030-2034
Analog Input 1	2040-2044
Analog Input 2	2050-2054
GNS Sense	2060-2064
Digital Output 1	2070-2074
Digital Output 2	2080-2084
Digital Output 3	2090-2094
Digital Output 4	2100-2104
GNSS PDOP	2110-2114
GNSS HDOP	2120-2124
External Voltage	2130-2134
GNSS Power	2140-2144
Movement Sensor	2150-2154
Odometer Value	2160-2164
GSM Operator	2170-2174
Speed	2180-2184
iButton ID	2190-2194
Data Mode	2200-2204
GSM Signal	2210-2214
Deep Sleep	2220-2224
Cell ID	2230-2234
Area Code	2240-2244
Dallas Temperature 1	2250-2254
Dallas Temperature 2	2260-2264
Dallas Temperature 3	2270-2274
ICCID	2280-2284
IMSI	2290-2294

Ignition On Counter	2300-2304

CAN Element Number	CAN element parameters
LVC Vehicle Speed	2580-2584
LVC Accelerator Pedal Position	2590-2594
LVC Fuel Consumed	2600-2604
LVC Fuel Level (liters)	2610-2614
LVC Engine RPM	2620-2624
LVC Total Mileage	2630-2634
LVC Fuel Level (percent)	2640-2644
LVC Program Number	2650-2654
LVC ModuleID	2660-2664
LVC Engine Work Time	2670-2674
LVC Engine Work Time (counted)	2680-2684
LVC Total Mileage (counted)	2690-2694
LVC Fuel Consumed (counted	2700-2704
LVC Fuel Rate	2710-2714
LVC AdBlue Level (percent)	2720-2724
LVC AdBlue Level (liters)	2730-2734
LVC Engine Load	2740-2744
LVC Engine Temperature	2750-2754
LVC Axle 1 Load	2760-2764
LVC Axle 2 Load	2770-2774
LVC Axle 3 Load	2780-2784
LVC Axle 4 Load	2790-2794
LVC Axle 5 Load	2800-2804
LVC Control State Flags	2810-2814
LVC Agricultural Machinery Flags	2820-2824
LVC Harvesting Time	2830-2834
LVC Area of Harvest	2840-2844

LVC Mowing Efficiency	2850-2854
LVC Grain Mown Volume	2860-2864
LVC Grain Moisture	2870-2874
LVC Harvesting Drum RPM	2880-2884
LVC Gap Under Harvesting Drum	2890-2894
LVC Security State Flags	2900-2904
LVC Tacho Total Vehicle Distance	2910-2914
LVC Trip Distance	2920-2924
LVC Tacho Vehicle Speed	2930-2934
LVC Tacho Driver Card Presence	2940-2944
LVC Driver1 States	2950-2954
LVC Driver2 States	2960-2964
LVC Driver1 Continuous Driving Time	2970-2974
LVC Driver2 Continuous Driving Time	2980-2984
LVC Driver1 Cumulative Break Time	2990-2994
LVC Driver2 Cumulative Break Time	3000-3004
LVC Driver1 Duration Of Selected Activity	3010-3014
LVC Driver2 Duration Of Selected Activity	3020-3024
LVC Driver1 Cumulative Driving Time	3030-3034
LVC Driver2 Cumulative Driving Time	3040-3044
LVC Driver1 ID High	3050-3054
LVC Driver1 ID Low	3060-3064

LVC Driver2 ID High	3070-3074
LVC Driver2 ID Low	3080-3084
LVC Battery Temperature	3090-3094
LVC Battery Level (percent)	3100-3104
LVC Door Status	3110-3114
LVC DTC Errors	3120-3124
LVC Slope of Arm	3130-3134
LVC Rotation of Arm	3140-3144
LVC Eject of Arm	3150-3154
LVC Horizontal Dist Arm Vechicle	3160-3164
LVC Height Arm Above Ground	3170-3174
LVC Drill RPM	3180-3184
LVC Amount of Spread Salt Square Meter	3190-3194
LVC Battery Voltage	3200-3204
LVC Amount Spread Fine Grained Salt	3210-3214
LVC Amount Spread Coarse Grained Salt	3220-3224
LVC Amount Spread DiMix	3230-3234
LVC Amount Spread Coarse Grained Calcium	3240-3244
LVC Amount Spread Calcium Chloride	3250-3254
LVC Amount Spread Sodium Chloride	3260-3264
LVC Amount Spread Magnesium Chloride	3270-3274
LVC Amount Spread Gravel	3280-3284
LVC Amount Spread Sand	3290-3294
LVC Width Pouring Left	3300-3304

LVC Width Pouring Right	3310-3314
LVC Salt Spreader Work Hours	3320-3324
LVC Distance During Salting	3330-3334
LVC Load Weight	3340-3344
LVC Retarder Load	3350-3354
LVC Time On Cruise Control	3360-3364
LVC CNG Status	3370-3374
LVC CNG Used	3380-3384
LVC CNG Level	3390-3394
LVC Oil Level	3400-3404
LVC Vehicles Range On Additional Fuel	3410-3414
LVC Vehicles Range On Battery	3420-3424
LVC DTC Index	3430-3434
LVC DTC Code	3440-3444

LV-CAN Features

Parameter ID	Default value	Value range		Value	Parameter name
		Min	Max		
1620	0	0	2	0 – Auto Detect 1 – LV-CAN200 2 – High 3 – ALL-CAN300	CAN Mode
1621	0	0	1	0 – Disable 1 – Enable	Send data with 0, if ignition is off

SMS EVENT CONFIGURATION

Command sets SMS warning on I/O#1 element. SMS Format:

- setparam X Y,W,Z
- X – ID
- Y – Enable/Disable (1/0)
- W – Telephone number INDEX (GSM parameters → SMS TABLE → SMS Event Predefined Numbers parameter, ID 150 – INDEX 0; ID151 – INDEX 1, …)
- Z – SMS Text
    - Example: *setparam 5100 1,5,Digital Input 1 Event!*

Other I/O element SMS events can be configured in same logic. All I/O element SMS event IDs are listed in the next table.

Element name (default SMS Event Text)	ID
Digital Input 1	5100
Digital Input 2	5101
Digital Input 3	5102
Digital Input 4	5103
Analog Input 1	5104
Analog Input 2	5105
Ground Sense	5106
Digital Output 1	5107
Digital Output 2	5108
Digital Output 3	5109
Digital Output 4	5110
GNSS PDOP	5111
GNSS HDOP	5112
External Voltage	5113
GNSS Power	5114
Movement Sensor	5115
Odometer Value	5116
GSM Operator	5117
Speed	5118
iButton ID	5119
Data Mode	5120
GSM Signal	5121
Deep Sleep	5122
Cell ID	5123
Area Code	5124
Dallas Temperature 1	5125
Dallas Temperature 2	5126
Dallas Temperature 3	5127
Battery Voltage	5128
Battery Current	5129
Ignition	5130
Network Type	5131
Total Odometer	5132
Dallas Temperature ID 1	5133
Dallas Temperature ID 2	5134
Dallas Temperature ID 3	5135
ICCID	5136

IMSI	5137
LVC Vehicle Speed	5158
LVC Accelerator Pedal Position	5159
LVC Fuel Consumed	5160
LVC Fuel Level (liters)	5161
LVC Engine RPM	5162
LVC Total Mileage	5163
LVC Fuel Level (percent)	5164
LVC Program Number	5165
LVC ModuleID	5166
LVC Engine Work Time	5167
LVC Engine Work Time (counted)	5168
LVC Total Mileage (counted)	5169
LVC Fuel Consumed (counted)	5170
LVC Fuel Rate	5171
LVC AdBlue Level (percent)	5172
LVC AdBlue Level (liters)	5173
LVC Engine Load	5174
LVC Engine Temperature	5175
LVC Axle 1 Load	5176
LVC Axle 2 Load	5177
LVC Axle 3 Load	5178
LVC Axle 4 Load	5179
LVC Axle 5 Load	5180
LVC Control State Flags	5181
LVC Agricultural Machinery Flags	5182
LVC Harvesting Time	5183
LVC Area of Harvest	5184
LVC Mowing Efficiency	5185

LVC Grain Mown Volume	5186
LVC Grain Moisture	5187
LVC Harvesting Drum RPM	5188
LVC Gap Under Harvesting Drum	5189
LVC Security State Flags	5190
LVC Tacho Total Vehicle Distance	5191
LVC Trip Distance	5192
LVC Tacho Vehicle Speed	5193
LVC Tacho Driver Card Presence	5194
LVC Driver1 States	5195
LVC Driver2 States	5196
LVC Driver1 Continuous Driving Time	5197
LVC Driver2 Continuous Driving Time	5198
LVC Driver1 Cumulative Break Time	5199
LVC Driver2 Cumulative Break Time	5200
LVC Driver1 Duration Of Selected Activity	5201
LVC Driver2 Duration Of Selected Activity	5202
LVC Driver1 Cumulative Driving Time	5203
LVC Driver2 Cumulative Driving Time	5204
LVC Driver1 ID High	5205
LVC Driver1 ID Low	5206
LVC Driver2 ID High	5207

LVC Driver2 ID Low	5208
LVC Battery Temperature	5209
LVC Battery Level (percent)	5210
LVC Door Status	5211
LVC DTC Errors	5212
LVC Slope of Arm	5213
LVC Rotation of Arm	5214
LVC Eject of Arm	5215
LVC Horizontal Dist Arm Vehicle	5216
LVC Height Arm Above Ground	5217
LVC Drill RPM	5218
LVC Amount of Spread Salt Square Mete	5219
LVC Battery Voltage	5220
LVC Amount Spread Fine Grained Salt	5221
LVC Amount Spread Coarse Grained Salt	5222
LVC Amount Spread DiMix	5223
LVC Amount Spread Coarse Grained Calc	5224
LVC Amount Spread Calcium Chloride	5225
LVC Amount Spread Sodium Chloride	5226
LVC Amount Spread Magnesium Chloride	5227
LVC Amount Spread Gravel	5228
LVC Amount Spread Sand	5229
LVC Width Pouring Left	5230
LVC Width Pouring Right	5231

LVC Salt Spreader Work Hours	5232
LVC Distance During Salting	5233
LVC Load Weight	5234
LVC Retarder Load	5235
LVC Time On Cruise Control	5236
LVC CNG Status	5237
LVC CNG Used	5238
LVC CNG Level	5239
LVC Oil Level	5240
LVC Vehicles Range On Additional Fuel	5241
LVC Vehicles Range On Battery	5242
LVC DTC Index	5243
LVC DTC Code	5244
Green Driving	5265
Over Speeding	5267
Authorized Driving	5268
Immobilizer	5269
Trip	5270
Geofence Zone 1	5271
Geofence Zone 2	5272
Geofence Zone 3	5273
Geofence Zone 4	5274
Geofence Zone 5	5275
Auto Geofence	5276
Jamming Detection	5277
Idling	5278
Crash Detection	5279