

FMB020 Teltonika Data Sending Parameters ID

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

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

□

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Permanent I/O elements

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

80

Data Mode

1

Unsigned

0

5

-

-

- 0 - Home On Stop
- 1 - Home On Moving
- 2 - Roaming On Stop
- 3 - Roaming On Moving
- 4 - Unknown On Stop
- 5 - Unknown On Moving

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

Permanent I/O Elements

21 GSM Signal 1 Unsigned 0 5 - - Value in range 1-5

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 Elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

200

Sleep Mode

1

Unsign
ed

0

4

-

-

- 0 - No Sleep
- 1 - GPS Sleep
- 2 - Deep Sleep
- 3 - Online Sleep
- 4 - Ultra Sleep

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

Permanent I/O
Elements

69

GNSS Status

1

Unsigned

0

3

-

-

- 0 - GNSS OFF
- 1 - GNSS ON with fix
- 2 - GNSS ON without fix
- 3 - GNSS sleep

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

Permanent I/O Elements

66 External Voltage 2 Unsigned 0 65535 0.001 V Voltage

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMB13
0
FMB14
0
FMB15
0
FMC15
0
FMM1
50
FMU12
5
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

Permanent I/O elements

24 Speed 2 Unsigned 0 350 - km/h GNSS Speed

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

205 GSM Cell ID 2 Unsigned 0 65535 - - GSM base station ID

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

67 Battery Voltage 2 Unsigned 0 65535 0.001 V Voltage

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB12
0
FMB12
2
FMB12
5
FMB13
0
FMB14
0
FMB15
0
FMC15
0
FMM1
50
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMC80
0
FMM8
00
FMM8
0A

Permanent I/O
elements

68 Battery Current 2 Unsigned 0 65535 0.001 A Current

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMC12
5
FMM1
25
FMB13
0
FMU13
0
FMC13
0
FMM1
30
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMB14
0
FMC80
0
FMM8
00
FMM8
0A

Permanent I/O
elements

16	Total Odometer	4	Unsign ed	0	21474 83647	-	-	Total Odometer value in meters	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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9 Analog Input 1 2 Unsigned 0 65535 0.001 mV Voltage

FMBXX
X
[FMB00](#)
[1](#)
[FMB01](#)
[0](#)
[FMB11](#)
[0](#)
[FMB12](#)
[0](#)
[FMB12](#)
[2](#)
[FMB12](#)
[5](#)
[FMU12](#)
[5](#)
[FMC12](#)
[5](#)
[FMM1](#)
[25](#)
[FMB13](#)
[0](#)
[FMB13](#) Permanent I/O
[0](#) elements
[FMM1](#)
[30](#)
[FMB14](#)
[0](#)
[FMB90](#)
[0](#)
[FMB92](#)
[0](#)
[FMB96](#)
[2](#)
[FMB96](#)
[4](#)
[FMB20](#)
[2](#)
[FMB20](#)
[4](#)
[FMB20](#)
[6](#)
[MTB10](#)
[0](#)

179 Digital Output 1 1 Unsigned 0 1 - - Logic: 0/1

FMBXX
X
[FMB11](#)
0
[FMB12](#)
0
[FMB12](#)
2
[FMB12](#)
5
[FMU12](#)
5
[FMC12](#)
5
[FMM1](#)
25
[FMB13](#)
0
[FMU13](#)
0
[FMC13](#)
0
[FMM1](#)
30
[FMB14](#)
0
[FMB15](#)
0
[FMC15](#)
0
[FMM1](#)
50
[FMB90](#)
0
[FMB92](#)
0
[FMB96](#)
2
[FMB96](#)
4
[FMB20](#)
2
[FMB20](#)
4
[FMB20](#)
6
[MTB10](#)
0

Permanent I/O
elements

12 Fuel Used GPS 4 Unsigned 0 42949 0.001 1 Fuel Used
67295

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMC12
5
FMM1
25
FMB13
0
FMU13
0
FMC13
0
FMM1
30
FMB14
0
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMC80
0
FMM8
00
FMM8
0A

Permanent I/O
elements

17 Axis X 2 Signed -8000 8000 - mG X axis value

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

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

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

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

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

11 ICCID1 8 Unsign 0 0xffffffff - - Value of SIM ICCID, MSB

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB00
2
FMB02
0
FMB00
3
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMB14
0
FMB15
0
FMC15
0
FMM1 Permanent I/O
50 elements
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0
MTB10
0
FMP10
0
MSP50
0
FMC80
0
FMM8
00
FMM8
0A

10 SD Status 1 Unsigned 0 1 - - 0 - not present 1 - present

FMBXX
X
FMB00
1
FMB01
0
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMC12
5
FMB13
0
FMU13 Permanent I/O
0 elements
FMC13
0
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FM300
1
FMB20
2
FMB20
4
FMB20
6
FMT10
0

6	Analog Input 2	2	Unsigned	0	65535	0.001	mV	Voltage	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0	Permanent I/O elements
180	Digital Output 2	1	Unsigned	0	1	-	-	Logic 0/1	FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements
72	Dallas Temperature 1	4	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	FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements

73	Dallas Temperature 2	4	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	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements
74	Dallas Temperature 3	4	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	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements

75	Dallas Temperature	4	4	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	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements
76	Dallas Temperature ID	1	8	Unsigned	0	0xffffffff	-	-	Dallas sensor ID	FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6	Permanent I/O elements

201	LLS 1 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS232/RS485	FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
202	LLS 1 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS232/RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
203	LLS 2 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
204	LLS 2 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
210	LLS 3 Fuel Level	2	Unsign ed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
211	LLS 3 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
212	LLS 4 Fuel Level	2	Signed	-4	32767	-	kvants or ltr	Fuel level measured by LLS sensor via RS485	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
213	LLS 4 Temperature	1	Signed	-128	127	-	°C	Fuel temperature measured by LLS via RS485	FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements

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

113	Battery Level	1	Unsigned	0	100	-	%	Battery capacity level	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB12 0 FMB12 2 FMB12 5 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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238	User ID	8	Unsigned	0	0xffffffff ffffffff	-	-	MAC address of NMEA receiver device connected via Bluetooth	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB20 2 FMB20 4 FMB20 6 FMT10 0 FMP10 0 FMC00 1 FMC12 5 FMC13 0 FMM0 01 FMM1 25 FMM1 30 FMC80 0 FMM8 00 FMM8 0A FMC88 0 FMM8 80 FMC25 0	Permanent I/O elements
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237	Network Type	1	Unsigned	0	1	-	-	0 - 3G 1 - GSM 2 - 4G 3 - LTE CAT M1 4 - LTE CAT NB1 99 - Unknown	FM300 1 FMU12 5 FMU12 6 FMU13 0 FMC12 5 FMC13 0 FMC15 0 FMM1 25 FMM1 30 FMM1 50 FMC00 1 FMM0 01 FMC80 0 FMM8 00 FMC88 0 FMM8 80 FMM8 0A FMB11 0 FMB12 0	Permanent I/O elements
8	Authorized iButton	8	Unsigned	0	0xffffffff	-	-	If ID is shown in this I/O that means that attached iButton is in iButton List	FMB12 0 FMB12 2 FMB12 5 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB12 5	Permanent I/O elements
4	Pulse Counter Din1	4	Unsigned	0	4294967295	-	-	Counts pulses, count is reset when records are saved	FMB12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMBXX X FMB11 0 FMB12 0 FMB12 2	Permanent I/O elements
5	Pulse Counter Din2	4	Unsigned	0	4294967295	-	-	Counts pulses, count is reset when records are saved	FMB12 2 FMB13 0 FMU13 0 FMC13 0 FMM1 30	Permanent I/O elements

263	BT Status	1	Unsigned	0	4	-	-	<p>0 - BT is disabled 1 - BT Enabled, not device connected 2 - Device connected, BTv3 Only 3 - Device connected, BLE only 4 - Device connected, BLE + BT</p>	<p>FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A</p>	Permanent I/O elements
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										FMBXX X FMB00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30	
264	Barcode ID	Variable	ASCII	0	32	-	-	Barcode ID		FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements
269	Escort LLS Temperature #1	2	Signed	-128	127	-	°C	Fuel temperature		FMT10 0 MTB10 0 FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements
270	Escort LLS Fuel level #1	2	Unsigned	0	65535	-	-	Fuel Level		FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements
271	Escort LLS Battery Voltage #1	2	Unsigned	0	65535	0.01	V	Battery Voltage		FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements

272	Escort LLS Temperature #2	2	Signed	-128	127	-	°C	Fuel temperature	FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
273	Escort LLS Fuel level #2	2	Unsigned	0	65535	-	-	Fuel Level	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
274	Escort LLS Battery Voltage #2	2	Unsigned	0	65535	0.01	V	Battery Voltage	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
275	Escort LLS Temperature #3	2	Signed	-128	127	-	°C	Fuel temperature	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
276	Escort LLS Fuel level #3	2	Unsigned	0	65535	-	-	Fuel Level	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
277	Escort LLS Battery Voltage #3	2	Unsigned	0	65535	0.01	V	Battery Voltage	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
278	Escort LLS Temperature #4	2	Signed	-128	127	-	°C	Fuel temperature	FMU12 5 FMC12 5 FMM1 25 FMB12 5 FMB12 5	Permanent I/O elements
279	Escort LLS Fuel level #4	2	Unsigned	0	65535	-	-	Fuel Level	FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements

280	Escort LLS Battery Voltage #4	2	Unsigned	0	65535	0.01	V	Battery Voltage	FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0	Permanent I/O elements
303	Instant Movement	1	Unsigned	0	1	-	-	Logic: 0/1 returns movement value	FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMB12 5 FMB12 5	Permanent I/O elements
327	UL202-02 Sensor Fuel level	2	Signed	-150	32767	0.1	mm	UL202-02 Sensor Fuel level	FMU12 5 FMC12 5 FMM1 25	Permanent I/O elements

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

387	ISO6709 Coordinates	34	HEX	0	0x7fffff fffffff	-	-	ISO6709 Coordinates Latitude, Longitude (in Degrees, Minutes and Seconds) and Altitude: IO value format: ±DDMMSS.SSSS±DDMMSS.SSSS±AAA.AAA/	FMBXX X FMB00 1 FMC00 1 FMB01 0 FMB00 2 FMB02 0 FMB00 3 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMU12 5 FMC12 5 FMB13 0 FMU13 0 FMC13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB91 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMP10 0 FMB14 0 MSP50 0 FMC80 0 FMM8 00 FMM8 0A	Permanent I/O elements
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Property ID in AVE packet	Property Name	Bytes	Type	Value range	Min	Max	Multiplier	Units	Description	HW Support	Parameter Group
155	Confidence zone 01	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136000	Eventual IO elements
										136001	
										136002	
										136003	
										136004	
										136005	
										136006	
										136007	
										136008	
										136009	
										136010	
										136011	
156	Confidence zone 02	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136012	Eventual IO elements
										136013	
										136014	
										136015	
										136016	
										136017	
										136018	
										136019	
										136020	
										136021	
										136022	
										136023	
157	Confidence zone 03	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136024	Eventual IO elements
										136025	
										136026	
										136027	
										136028	
										136029	
										136030	
										136031	
										136032	
										136033	
										136034	
										136035	
158	Confidence zone 04	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136036	Eventual IO elements
										136037	
										136038	
										136039	
										136040	
										136041	
										136042	
										136043	
										136044	
										136045	
										136046	
										136047	
159	Confidence zone 05	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136048	Eventual IO elements
										136049	
										136050	
										136051	
										136052	
										136053	
										136054	
										136055	
										136056	
										136057	
										136058	
										136059	
61	Confidence zone 06	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136060	Eventual IO elements
										136061	
										136062	
										136063	
										136064	
										136065	
										136066	
										136067	
										136068	
										136069	
										136070	
										136071	
62	Confidence zone 07	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136072	Eventual IO elements
										136073	
										136074	
										136075	
										136076	
										136077	
										136078	
										136079	
										136080	
										136081	
										136082	
										136083	
63	Confidence zone 08	1	Unsigned	0 - 3	0	3	-	-	0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start	FM8XX 136084	Eventual IO elements
										136085	
										136086	
										136087	
										136088	
										136089	
										136090	
										136091	
										136092	
										136093	
										136094	
										136095	

Event ID	Event Name	Variable	Unit	Min	Max	Min	Max	Description	Event ID	Event Name
257	Crash trace data	Variable	HEX	0	1200	-	-	Crash trace data	FMXXXX [Expanded]	Event ID elements
285	Blood alcohol content	2	Unassigned	0	9999	-	-	Alcohol content in blood in percents and mode. First 14 bits from MSB are percents multiplied by 1000 and last to bits are 0 - Passive test, 1 - Active test, 2 and 3 are reserved.	FMXXXX [Expanded]	Event ID elements
251	Idling	1	Unassigned	0	1	-	-	0 - moving 1 - idling	FMXXXX [Expanded]	Event ID elements
253	Green driving type	1	Unassigned	1	3	-	-	1 - harsh acceleration 2 - harsh braking 3 - harsh cornering	FMXXXX [Expanded]	Event ID elements
246	Towing	1	Unassigned	0	1	-	-	0 - steady 1 - towing	FMXXXX [Expanded]	Event ID elements
252	Unlpyg	1	Unassigned	0	1	-	-	0 - battery present 1 - battery unplugged	FMXXXX [Expanded]	Event ID elements
247	Crash detection	1	Unassigned	1	6	-	-	1 - real crash detected (device is calibrated) 2 - limited crash trace (device not calibrated) 3 - limited crash trace (device is calibrated) 4 - full crash trace (device not calibrated) 5 - full crash trace (device is calibrated) 6 - real crash detected (device not calibrated) 7 - fake crash detected (device calibrated, parked) 8 - fake crash detected (device calibrated, speed check)	FMXXXX [Expanded]	Event ID elements
248	Immobilizer	1	Unassigned	0	2	-	-	0 - illyon not connected 1 - illyon connected (Immobilizer) 2 - illyon connected (Authorized Driving)	FMXXXX [Expanded]	Event ID elements
254	Green Driving Value	1	Unassigned	0	255	acc and braking: 0.01	G or rad	Depending on green driving type: if harsh acceleration or braking - g*100 (value 123 > 1.23g). If Green driving source is "GPS" - harsh cornering value in rad*100. If source is "Accelerometer" - g*100.	FMXXXX [Expanded]	Event ID elements
249	Jamming	1	Unassigned	0	1	-	-	0 - jamming stop 1 - jamming start	FMXXXX [Expanded]	Event ID elements

385 Beacon Variable HEX 0 1024 - - List of Beacon IDs

FMBX
XX
[FMB0](#)
[01](#)
[FMC0](#)
[01](#)
[FMB0](#)
[10](#)
[FMB0](#)
[02](#)
[FMB0](#)
[20](#)
[FMB0](#)
[03](#)
[FMB1](#)
[10](#)
[FMB1](#)
[20](#)
[FMB1](#)
[22](#)
[FMB1](#)
[25](#)
[FMU1](#)
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[25](#)
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[30](#)
[FMU1](#)
[30](#)
[FMC1](#)
[30](#)
[FMB1](#)
[40](#)
[FMB1](#)
[50](#) Permanent
[FMC1](#) I/O elements
[50](#)
[FMM](#)
[150](#)
[FMB9](#)
[00](#)
[FMB9](#)
[20](#)
[FMB9](#)
[10](#)
[FMB9](#)
[62](#)
[FMB9](#)
[64](#)
[FM30](#)
[01](#)
[FMB2](#)
[02](#)
[FMB2](#)
[04](#)
[FMB2](#)
[06](#)
[FMT1](#)
[00](#)
[MTB1](#)
[00](#)
[FMP1](#)
[00](#)
[FMB1](#)
[40](#)
[FMC8](#)
[00](#)
[FMM](#)
[800](#)
[FMM](#)
[80A](#)

25	BLE Temperature #1	2	Signed	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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26	BLE Temperature #2	2	Signed	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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27	BLE Temperature #3	2	Signe d	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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28	BLE Temperature #4	2	Signed	-4000 12500 0.01*	°C	Degrees (°C), -40 - +125; Error codes: 4000 - abnormal sensor state 3000 - sensor not found 2000 - failed sensor data parsing	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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29	BLE Battery #1	1	Unsigned	0	100	-	%	Battery level of sensor #1	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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20	BLE Battery #2	1	Unsigned	0	100	-	%	Battery level of sensor #2	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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22	BLE Battery #3	1	Unsigned	0	100	-	%	Battery level of sensor #3	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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23	BLE Battery #4	1	Unsigned	0	100	-	%	Battery level of sensor #4	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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276	BLE Fuel Level #3	2	Unsigned	0	65535	-	-	Fuel Level	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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465	BLE 1 Custom #4	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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467	BLE 2 Custom #2	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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468	BLE 2 Custom #3	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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469	BLE 2 Custom #4	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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470	BLE 2 Custom #5	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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473	BLE 3 Custom #4	8	UNSI GNED LONG INT	0	42949 67295	-	-	Custom IO element for BLE sensor	FMBX XX FMB0 01 FMC0 01 FMB0 10 FMB0 02 FMB0 20 FMB0 03 FMB1 10 FMB1 20 FMB1 22 FMB1 25 FMU1 25 FMC1 25 FMB1 30 FMU1 30 FMC1 30 FMB1 40 FMB1 50 FMC1 50 FMM 150 FMB9 00 FMB9 20 FMB9 10 FMB9 62 FMB9 64 FM30 01 FMB2 02 FMB2 04 FMB2 06 FMT1 00 MTB1 00 FMP1 00 FMB1 40 MSP5 00 FMC8 00 FMM 800 FMM 80A	Bluetooth Low Energy
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