

FMB150 Teltonika Data Sending Parameters ID

[Main Page](#) > [CAN Trackers & Adapters](#) > [FMC150](#) > **FMB150 Teltonika Data Sending Parameters ID**

Document updated according to firmware FMB.Ver.03.28.07.Rev.152 and newer.

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

□

Contents

- [1 Permanent I/O elements](#)
- [2 Eventual I/O elements](#)
- [3 OBD elements](#)
- [4 OBD OEM elements](#)
- [5 BLE Sensors I/O elements](#)
- [6 CAN adapters elements](#)

Permanent I/O elements

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

240 Movement 1 Unsigned 0 1 - - 0 - Movement Off
 1 - Movement On

FMBXX
 X
[FMB00](#)
 1
[FMC00](#)
 1
[FMB01](#)
 0
[FMB00](#)
 2
[FMB02](#)
 0
[FMB00](#)
 3
[FMB11](#)
 0
[FMB12](#)
 0
[FMB12](#)
 2
[FMB12](#)
 5
[FMB13](#)
 0
[FMB14](#)
 0
[FMB15](#)
 0
[FMC15](#)
 0
[FMM1](#)
 50 Permanent I/O
[FMU12](#) elements
 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

80

Data Mode

1

Unsign
ed

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 | Unsigned | 0 | 4 | - | - | <ul style="list-style-type: none"> 0 - No Sleep 1 - GPS Sleep 2 - Deep Sleep 3 - Online Sleep 4 - Ultra Sleep | <ul style="list-style-type: none"> 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 | - | - | <ul style="list-style-type: none"> 0 - GNSS OFF 1 - GNSS ON with fix 2 - GNSS ON without fix 3 - GNSS sleep | <ul style="list-style-type: none"> 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
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

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
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

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

241 Active GSM Operator 4 Unsigned 0 429496 - - Currently used GSM Operator code
7295

- 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

| | | | | | | | | |
|----|----------------|---|--------------|---|----------------|---|---|--------------------------------|
| 16 | Total Odometer | 4 | Unsign ed | 0 | 214748 3647 | - | - | 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

1 Digital Input 1 1 Unsigned 0 1 - - Logic: 0/1

FMBXX
X
FMB00
1
FMC00
1
FMB01
0
FMB11
0
FMB12
0
FMB12
2
FMB12
5
FMU12
5
FMC12
5
FMM1
25
FMB13
0
FMU13
0
FMC13 Permanent I/O
0 elements
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

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
FMU13
0
FMC13
0
FMM1
30
FMB14
0
FMB90
0
FMB92
0
FMB96
2
FMB96
4
FMB20
2
FMB20
4
FMB20
6
MTB10
0

Permanent I/O
elements

| | | | | | | | | | | |
|-----|------------------|---|----------|---|---|---|---|------------|--|------------------------|
| 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 | Unsign ed | 0 | 429496 7295 | 0.001 | 1 | Fuel Used |
|----|---------------|---|--------------|---|----------------|-------|---|-----------|

FMBXX
 X
[FMB00](#)
[1](#)
[FMC00](#)
[1](#)
[FMB01](#)
[0](#)
[FMB11](#)
[0](#)
[FMB12](#)
[0](#)
[FMB12](#)
[2](#)
[FMB12](#)
[5](#)
[FMU12](#)
[5](#)
[FMC12](#)
[5](#)
[FMM1](#)
[25](#)
[FMB13](#)
[0](#)
[FMU13](#)
[0](#)
[FMC13](#)
[0](#)
[FMM1](#) Permanent I/O
[30](#) elements
[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](#)

| | | | | | | | | | | | |
|----|---------------|---|--------------|---|-------|------|-------------|------------------|--|-----------------------|---------------------------|
| | | | | | | | | | | 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 | |
| 13 | Fuel Rate GPS | 2 | Unsign ed | 0 | 32767 | 0.01 | l/100k m | Average Fuel Use | | FMM1 | Permanent I/O elements |
| | | | | | | | | | | 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 | |

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
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

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

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

| | | | | | | | | | | |
|---|-----------------|---|----------|---|---|---|---|------------|--|------------------------|
| 2 | Digital Input 2 | 1 | Unsigned | 0 | 1 | - | - | Logic: 0/1 | FMBXX X FMB90 0 FMB91 0 FMB92 0 FMC92 0 FMM9 20 FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMM12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMB64 0 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMB64 0 | Permanent I/O elements |
| 3 | Digital Input 3 | 1 | Unsigned | 0 | 1 | - | - | Logic: 0/1 | FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB20 2 FMB20 4 FMB20 6 FMB64 0 | Permanent I/O elements |

| | | | | | | | | | | |
|-----|----------------------|---|----------|------|-------|-------|----|---|--|------------------------|
| 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 | FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB13 0 FMU13 0 FMC13 0 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 | 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 |

| | | | | | | | | | | |
|----|----------------------|---|--------|------|------|-----|----|---|--|---------------------------|
| 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 FMM12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMM13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMM12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMM13 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 FMM12 5 FMC12 5 FMM1 25 FMB13 0 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMM13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6 | Permanent I/O elements |

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|----|-----------------------|---|---|----------|------|------------------------|-----|----|---|--|---------------------------|
| 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 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 |
| 76 | Dallas Temperature ID | 1 | 8 | Unsigned | 0 | 0xffffffff ffffffff | - | - | 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 |

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|-----|-------------------|---|--------------|------|-------|---|------------------|---|--|---------------------------|
| 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 |

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|-----|-------------------|---|--------------|------|-------|------|------------------|---|--|---------------------------|
| 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 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 |
| 215 | LLS 5 Temperature | 1 | Signed | -128 | 127 | - | °C | Fuel temperature measured by LLS via RS485 | 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 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 | FMB12 5 FMB12 5 FMU12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMB90 0 FMB92 0 FMB96 2 FMB96 4 FM300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A | Permanent I/O elements |

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|-----|---------------|---|----------|---|------------|---|---|--|---|------------------------|
| 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 FMB300 1 FMB20 2 FMB20 4 FMB20 6 FMT10 0 MTB10 0 FMC80 0 FMM8 00 FMM8 0A | Permanent I/O elements |
| 238 | User ID | 8 | Unsigned | 0 | 0xffffffff | - | - | MAC address of NMEA receiver device connected via Bluetooth® style="vertical-align: middle; text-align: center; " FMBXXX FMB001 FMC001 FMB010 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB202 FMB204 FMB206 FMT100 FMP100 FMC001 FMC125 FMC130 FMM001 FMM125 FMM130 FMC800 FMM800 FMM80A FMC880 FMM880 FMC250 | Permanent I/O elements | |

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|-----|--------------------|---|----------|---|------------|---|---|--|--|------------------------|
| 237 | Network Type | 1 | Unsigned | 0 | 1 | - | - | <ul style="list-style-type: none"> 0 - 3G 1 - GSM 2 - 4G 3 - LTE CAT M1 4 - LTE CAT NB1 99 - Unknown | <ul style="list-style-type: none"> 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 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 |
| 8 | Authorized iButton | 8 | Unsigned | 0 | 0xffffffff | - | - | If ID is shown in this I/O that means that attached iButton is in iButton List | <ul style="list-style-type: none"> FMB14 0 FMB15 0 FMC15 0 FMM1 50 FMU13 0 FMC13 0 FMM1 30 FMB20 2 FMB20 4 FMB20 6 | Permanent I/O elements |

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|---|--------------------|---|----------|---|----------------|---|---|--|--|------------------------|
| 4 | Pulse Counter Din1 | 4 | Unsigned | 0 | 429496 7295 | - | - | Counts pulses, count is reset when records are saved | FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB12 5 FMB12 5 FMC12 5 FMM1 25 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB13 0 FMU13 0 FMC13 0 FMM1 30 | Permanent I/O elements |
| 5 | Pulse Counter Din2 | 4 | Unsigned | 0 | 429496 7295 | - | - | Counts pulses, count is reset when records are saved | FMBXX X FMB11 0 FMB12 0 FMB12 2 FMB13 0 FMU13 0 FMC13 0 FMM1 30 | Permanent I/O elements |

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

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|-----|-------------------------------|---|----------|------|-------|------|----|------------------|--|------------------------|
| 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 |

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|-----|-------------------------------|---|----------|------|-------|------|----|-----------------------------------|--|------------------------|
| 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 FMB12 5 FMB12 5 | Permanent I/O elements |
| 483 | UL202-02 Sensor Status | 1 | Unsigned | 0 | 255 | - | - | UL202-02 sensor status codes | FMU12 5 FMC12 5 FMM1 25 | Permanent I/O elements |

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|-----|------------------|---|----------|---|---|---|---|------------|--|------------------------|
| 380 | Digital output 3 | 1 | Unsigned | 0 | 1 | - | - | Logic: 0/1 | FMBXX X FMB13 0 FMU13 0 FMC13 0 FMC15 0 FMM1 30 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 | Permanent I/O elements |
| 381 | Ground Sense | 1 | Unsigned | 0 | 1 | - | - | Logic: 0/1 | FMBXX X FMB13 0 FMU13 0 FMC13 0 FMC15 0 FMM1 30 FMB13 0 FMU13 0 FMC13 0 FMM1 30 FMB14 0 | Permanent I/O elements |

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|-----|--------------------------------|----|----------|---|----------------|---|---|--|--------------------------------------|--|---------------------------|
| | | | | | | | | | | FMBXX X FMU125 FMU126 FMU130 FMC001 FMC125 FMC130 FMM001 FMM125 FMM130 FMC150 FMM150 FMC800 FMM800 FMM80A | |
| 636 | UMTS/LTE Cell ID | 4 | Unsigned | 0 | 0xFFFF FFFF | - | - | | | | Permanent I/O elements |
| 403 | Driver Name | 35 | Unsigned | - | - | - | - | Driver name extracted from card, displayed without delimiters (\$ signs) | FMBXX X FMU126 | Permanent I/O elements | |
| 404 | Driver card license type | 1 | Unsigned | 0 | 8 | - | - | None - 0 B.1 license type - 1 B.2 license type - 2 B.3 license type - 3 B.4 license type - 4 T.1 license type - 5 T.2 license type - 6 T.3 license type - 7 T.4 license type - 8 | FMBXX X FMU126 | Permanent I/O elements | |
| 405 | Driver Gender | 1 | Unsigned | 0 | 2 | - | - | None - 0 Male - 1 Female - 2 | FMBXX X FMU126 | Permanent I/O elements | |
| 406 | Driver Card ID | 4 | Unsigned | 0 | 429496 7295 | - | - | None - 0 Male - 1 Female - 2 | FMBXX X FMU126 | Permanent I/O elements | |
| 407 | Driver card expiration date | 1 | Unsigned | 0 | 9999 | - | - | | FMBXX X FMU126 | Permanent I/O elements | |
| 408 | Driver Card place of issue | 4 | Unsigned | 0 | 65535 | - | - | Extracted from card | FMBXX X FMU126 | Permanent I/O Elements | |
| 409 | Driver Status Event | 1 | Unsigned | 0 | 2 | - | - | Registered - 0 Deregistered - 1 Swapping - 2 | FMBXX X FMU126 | Permanent I/O elements | |
| 329 | AIN Speed | 2 | Unsigned | 0 | 65535 | - | - | | MSP500 | Permanent I/O elements | |
| 500 | MSP500 vendor name | 40 | ASCII | 0 | 40 | - | - | Name of the integrator who installed the device | MSP500 | Permanent I/O elements | |
| 501 | MSP500 vehicle number | 40 | ASCII | 0 | 40 | - | - | Vehicle number on which the device is installed | MSP500 | Permanent I/O elements | |
| 502 | MSP500 speed sensor | 1 | unsigned | 0 | 1 | - | - | Status of the speed sensor | MSP500 | Permanent I/O elements | |
| 637 | Wake Reason | 1 | Unsigned | 0 | 1 | - | - | True if device was woken by RTC alarm | FMB965 | Permanent I/O elements | |

Eventual I/O elements

| Property ID in AVE packet | Property Name | Bytes | Type | Value range | | Multiplier | Units | Description | HW Support | Parameter Group | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------|-------|----------|-------------|-----|------------|-------|---|--|-----------------------|-----|--------------------|---|----------|---|---|---|---|--|-----------------------|-----|--------------------|---|----------|---|---|---|---|---|-----------------------|-----|--------------------|---|----------|---|---|---|---|--|-----------------------|-----|--------------------|---|----------|---|---|---|---|--|-----------------------|----|--------------------|---|----------|---|---|---|---|--|-----------------------|----|--------------------|---|----------|---|---|---|---|--|-----------------------|----|--------------------|---|----------|---|
| | | | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155 | Confidence zone 01 | 1 | Unsigned | 0 | 3 | - | - | 0 - target left zone 1 - target entered zone 2 - over spending end 3 - over spending start | FM8XXX 1240000 1240001 1240002 1240003 1240004 1240005 1240006 1240007 1240008 1240009 1240010 1240011 1240012 1240013 1240014 1240015 | Eventual I/O elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 156 | Confidence zone 02 | 1 | Unsigned | 0 | 3 | - | - | 1240016 1240017 1240018 1240019 1240020 1240021 1240022 1240023 1240024 1240025 1240026 1240027 1240028 1240029 1240030 1240031 1240032 1240033 1240034 1240035 1240036 1240037 1240038 1240039 1240040 1240041 1240042 1240043 1240044 1240045 1240046 1240047 1240048 1240049 1240050 1240051 1240052 1240053 1240054 1240055 1240056 1240057 1240058 1240059 1240060 1240061 1240062 1240063 1240064 1240065 1240066 1240067 1240068 1240069 1240070 1240071 1240072 1240073 1240074 1240075 1240076 1240077 1240078 1240079 1240080 1240081 1240082 1240083 1240084 1240085 1240086 1240087 1240088 1240089 1240090 1240091 1240092 1240093 1240094 1240095 1240096 1240097 1240098 1240099 1240100 1240101 1240102 1240103 1240104 1240105 1240106 1240107 1240108 1240109 1240110 1240111 1240112 1240113 1240114 1240115 1240116 1240117 1240118 1240119 1240120 1240121 1240122 1240123 1240124 1240125 1240126 1240127 1240128 1240129 1240130 1240131 1240132 1240133 1240134 1240135 1240136 1240137 1240138 1240139 1240140 1240141 1240142 1240143 1240144 1240145 1240146 1240147 1240148 1240149 1240150 1240151 1240152 1240153 1240154 1240155 1240156 1240157 1240158 1240159 1240160 1240161 1240162 1240163 1240164 1240165 1240166 1240167 1240168 1240169 1240170 1240171 1240172 1240173 1240174 1240175 1240176 1240177 1240178 1240179 1240180 1240181 1240182 1240183 1240184 1240185 1240186 1240187 1240188 1240189 1240190 1240191 1240192 1240193 1240194 1240195 1240196 1240197 1240198 1240199 | Eventual I/O elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 157 | Confidence zone 03 | 1 | Unsigned | 0 | 3 | - | - | 1240199 1240200 1240201 1240202 1240203 1240204 1240205 1240206 1240207 1240208 1240209 1240210 1240211 1240212 1240213 1240214 1240215 1240216 1240217 1240218 1240219 1240220 1240221 1240222 1240223 1240224 1240225 1240226 1240227 1240228 1240229 1240230 1240231 1240232 1240233 1240234 1240235 1240236 1240237 1240238 1240239 1240240 1240241 1240242 1240243 1240244 1240245 1240246 1240247 1240248 1240249 1240250 1240251 1240252 1240253 1240254 1240255 1240256 1240257 1240258 1240259 1240260 1240261 1240262 1240263 1240264 1240265 1240266 1240267 1240268 1240269 1240270 1240271 1240272 1240273 1240274 1240275 1240276 1240277 1240278 1240279 1240280 1240281 1240282 1240283 1240284 1240285 1240286 1240287 1240288 1240289 1240290 1240291 1240292 1240293 1240294 1240295 1240296 1240297 1240298 1240299 | Eventual I/O elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 158 | Confidence zone 04 | 1 | Unsigned | 0 | 3 | - | - | 1240300 1240301 1240302 1240303 1240304 1240305 1240306 1240307 1240308 1240309 1240310 1240311 1240312 1240313 1240314 1240315 1240316 1240317 1240318 1240319 1240320 1240321 1240322 1240323 1240324 1240325 1240326 1240327 1240328 1240329 1240330 1240331 1240332 1240333 1240334 1240335 1240336 1240337 1240338 1240339 1240340 1240341 1240342 1240343 1240344 1240345 1240346 1240347 1240348 1240349 1240350 1240351 1240352 1240353 1240354 1240355 1240356 1240357 1240358 1240359 1240360 1240361 1240362 1240363 1240364 1240365 1240366 1240367 1240368 1240369 1240370 1240371 1240372 1240373 1240374 1240375 1240376 1240377 1240378 1240379 1240380 1240381 1240382 1240383 1240384 1240385 1240386 1240387 1240388 1240389 1240390 1240391 1240392 1240393 1240394 1240395 1240396 1240397 1240398 1240399 | Eventual I/O elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 159 | Confidence zone 05 | 1 | Unsigned | 0 | 3 | - | - | 1240400 1240401 1240402 1240403 1240404 1240405 1240406 1240407 1240408 1240409 1240410 1240411 1240412 1240413 1240414 1240415 1240416 1240417 1240418 1240419 1240420 1240421 1240422 1240423 1240424 1240425 1240426 1240427 1240428 1240429 1240430 1240431 1240432 1240433 1240434 1240435 1240436 1240437 1240438 1240439 1240440 1240441 1240442 1240443 1240444 1240445 1240446 1240447 1240448 1240449 1240450 1240451 1240452 1240453 1240454 1240455 1240456 1240457 1240458 1240459 1240460 1240461 1240462 1240463 1240464 1240465 1240466 1240467 1240468 1240469 1240470 1240471 1240472 1240473 1240474 1240475 1240476 1240477 1240478 1240479 1240480 1240481 1240482 1240483 1240484 1240485 1240486 1240487 1240488 1240489 1240490 1240491 1240492 1240493 1240494 1240495 1240496 1240497 1240498 1240499 | Eventual I/O elements | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 61 | Confidence zone 06 | 1 | Unsigned | 0 | 3 | - | - | 1240500 1240501 1240502 1240503 1240504 1240505 1240506 1240507 1240508 1240509 1240510 1240511 1240512 1240513 1240514 1240515 1240516 1240517 1240518 1240519 1240520 1240521 1240522 1240523 1240524 1240525 1240526 1240527 1240528 1240529 1240530 1240531 1240532 1240533 1240534 1240535 1240536 1240537 1240538 1240539 1240540 1240541 1240542 1240543 1240544 1240545 1240546 1240547 1240548 1240549 1240550 1240551 1240552 1240553 1240554 1240555 1240556 1240557 1240558 1240559 1240560 1240561 1240562 1240563 1240564 1240565 1240566 1240567 1240568 1240569 1240570 1240571 1240572 1240573 1240574 1240575 1240576 1240577 1240578 1240579 1240580 1240581 1240582 1240583 1240584 1240585 1240586 1240587 1240588 1240589 1240590 1240591 1240592 1240593 1240594 1240595 1240596 1240597 1240598 1240599 | Eventual I/O elements | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 62 | Confidence zone 07 | 1 | Unsigned | 0 | 3 | - | - | 1240600 1240601 1240602 1240603 1240604 1240605 1240606 1240607 1240608 1240609 1240610 1240611 1240612 1240613 1240614 1240615 1240616 1240617 1240618 1240619 1240620 1240621 1240622 1240623 1240624 1240625 1240626 1240627 1240628 1240629 1240630 1240631 1240632 1240633 1240634 1240635 1240636 1240637 1240638 1240639 1240640 1240641 1240642 1240643 1240644 1240645 1240646 1240647 1240648 1240649 1240650 1240651 1240652 1240653 1240654 1240655 1240656 1240657 1240658 1240659 1240660 1240661 1240662 1240663 1240664 1240665 1240666 1240667 1240668 1240669 1240670 1240671 1240672 1240673 1240674 1240675 1240676 1240677 1240678 1240679 1240680 1240681 1240682 1240683 1240684 1240685 1240686 1240687 1240688 1240689 1240690 1240691 1240692 1240693 1240694 1240695 1240696 1240697 1240698 1240699 | Eventual I/O elements | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 63 | Confidence zone 08 | 1 | Unsigned | 0 |

| 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] | Eventual IO 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] | Eventual IO elements |
| 251 | Idling | 1 | Unassigned | 0 | 1 | - | - | 0 - moving 1 - idling | FMXXXX [Expanded] | Eventual IO elements |
| 253 | Green driving type | 1 | Unassigned | 1 | 3 | - | - | 1 - harsh acceleration 2 - harsh braking 3 - harsh cornering | FMXXXX [Expanded] | Eventual IO elements |
| 246 | Towing | 1 | Unassigned | 0 | 1 | - | - | 0 - steady 1 - towing | FMXXXX [Expanded] | Eventual IO elements |
| 252 | Unlpyg | 1 | Unassigned | 0 | 1 | - | - | 0 - battery present 1 - battery unplugged | FMXXXX [Expanded] | Eventual IO 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, perches) 8 - fake crash detected (device calibrated, speed check) | FMXXXX [Expanded] | Eventual IO elements |
| 248 | Immobilizer | 1 | Unassigned | 0 | 2 | - | - | 0 - illyton not connected 1 - illyton connected (Immobilizer) 2 - illyton connected (Authorized Driving) | FMXXXX [Expanded] | Eventual IO 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] | Eventual IO elements |
| 249 | Jamming | 1 | Unassigned | 0 | 1 | - | - | 0 - jamming stop 1 - jamming start | FMXXXX [Expanded] | Eventual IO elements |

| | | | | | | | | | | |
|----|---------------------|---|----------|------|-----|---|----|------------------------------|--|--------------|
| | | | | | | | | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | |
| 30 | Number of DTC | 1 | ASCII | 0 | 255 | - | - | Number of DTC | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 31 | Engine Load | 1 | Unsigned | 0 | 100 | - | % | Calculated engine load value | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 32 | Coolant Temperature | 1 | Signed | -128 | 127 | - | °C | Engine coolant temperature | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 33 | Short Fuel Trim | 1 | Signed | -100 | 99 | - | % | Short term fuel trim 1 | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |

| | | | | | | | | | | | |
|----|---------------|---|----------|---|-------|---|------|-----------------------------------|--|--|--------------|
| | | | | | | | | | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | |
| 34 | Fuel pressure | 2 | Unsigned | 0 | 765 | - | kPa | Fuel pressure | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 35 | Intake MAP | 1 | Unsigned | 0 | 255 | - | kPa | Intake manifold absolute pressure | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 36 | Engine RPM | 2 | Unsigned | 0 | 16384 | - | rpm | Engine RPM | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 37 | Vehicle Speed | 1 | Unsigned | 0 | 255 | - | km/h | Vehicle speed | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |

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|----|------------------------|---|----------|------|-------|------|-------|------------------------|--------------|
| 38 | Timing Advance | 1 | Signed | -64 | 64 | - | ° | Timing advance | OBD elements |
| 39 | Intake Air Temperature | 1 | Signed | -128 | 127 | - | °C | Intake air temperature | OBD elements |
| 40 | MAF | 2 | Unsigned | 0 | 65535 | 0.01 | g/sec | MAF air flow rate | OBD elements |
| 41 | Throttle Position | 1 | Unsigned | 0 | 100 | - | % | Throttle position | OBD elements |

FMBXXX
 FMB001
 FMC001
 FMB010
 FMB003
 FMB110
 FMB120
 FMB122
 FMB125
 FMC125
 FMC125
 FMM125
 FMB130
 FMC130
 FMC130
 FMM130
 FMB140
 FMB150
 FMC150
 FMM150
 FMB900
 FMB920
 FMB962
 FMB964
 FM3001
 FMT100
 MTB100
 FMB202
 FMB204
 FMB206
 FMT100
 MTB100
 FMB140
 FMBXXX
 FMB001
 FMC001
 FMB010
 FMB003
 FMB110
 FMB120
 FMB122
 FMB125
 FMC125
 FMC125
 FMM125
 FMB130
 FMC130
 FMC130
 FMM130
 FMB140
 FMB150
 FMC150
 FMM150
 FMB900
 FMB920
 FMB962
 FMB964
 FM3001
 FMT100
 MTB100
 FMB202
 FMB204
 FMB206
 FMT100
 MTB100
 FMB140
 FMBXXX
 FMB001
 FMC001
 FMB010
 FMB003
 FMB110
 FMB120
 FMB122
 FMB125
 FMC125
 FMC125
 FMM125
 FMB130
 FMC130
 FMC130
 FMM130
 FMB140
 FMB150
 FMC150
 FMM150
 FMB900
 FMB920
 FMB962
 FMB964
 FM3001
 FMT100
 MTB100
 FMB202
 FMB204
 FMB206
 FMT100
 MTB100
 FMB140
 FMBXXX
 FMB001
 FMC001
 FMB010
 FMB003
 FMB110
 FMB120
 FMB122
 FMB125
 FMC125
 FMC125
 FMM125
 FMB130
 FMC130
 FMC130
 FMM130
 FMB140
 FMB150
 FMC150
 FMM150
 FMB900
 FMB920
 FMB962
 FMB964
 FM3001
 FMT100
 MTB100
 FMB202
 FMB204
 FMB206
 FMT100
 MTB100
 FMB140

| | | | | | | | | | | | |
|----|-----------------------------|---|----------|---|-------|-----|-----|-----------------------------|--|--|--------------|
| | | | | | | | | | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 42 | Runtime since engine start | 2 | Unsigned | 0 | 65535 | - | s | Runtime since engine start | | | |
| 43 | Distance Traveled MIL On | 2 | Unsigned | 0 | 65535 | - | km | Distance or matten MIL on | | | |
| 44 | Relative Fuel Rail Pressure | 2 | Unsigned | 0 | 5178 | 0.1 | kPa | Relative fuel rail pressure | | | |
| 45 | Direct Fuel Rail Pressure | 2 | Unsigned | 0 | 65535 | 10 | kPa | Direct Fuel Rail Pressure | | | |

| | | | | | | | | | | | |
|----|----------------------------|---|----------|------|-------|---|----|---------------------------------------|--|--|--------------|
| | | | | | | | | | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | |
| 46 | Commanded EGR | 1 | Unsigned | 0 | 100 | - | % | Commanded EGR | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 47 | EGR Error | 1 | Signed | -100 | 100 | - | % | EGR error | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 48 | Fuel Level | 1 | Unsigned | 0 | 100 | - | % | Fuel level | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 49 | Distance Since Codes Clear | 2 | Unsigned | 0 | 65535 | - | km | Distance traveled since codes cleared | | FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |

| Property ID in AVL packet | Property Name | Bytes | Type | Value range | Multiplier | Units | Description | HW Support | Parameter Group |
|---------------------------|-----------------------|----------|----------|-------------|------------|-------|--|--|-----------------|
| | | | | Min Max | | | | | |
| 544 | Hybrid System Current | 2 | Signed | -3277 3277 | - | A | Hybrid vehicle system current | FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 281 | Fault Codes | variable | ASCII | 0 128 | - | - | Fault Codes (values separated via ",") | FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 FMBXXX FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |
| 60 | Fuel Rate | 2 | Unsigned | 0 32767 | 0.01 | L/h | Engine fuel rate, L/h*100 | FMB001 FMC001 FMB010 FMB003 FMB110 FMB120 FMB122 FMB125 FMC125 FMC125 FMM125 FMB130 FMC130 FMM130 FMB140 FMB150 FMC150 FMM150 FMB900 FMB920 FMB962 FMB964 FM3001 FMT100 MTB100 FMB202 FMB204 FMB206 FMT100 MTB100 FMB140 | OBD elements |

OBD OEM elements

| Property ID in AVL packet | Property Name | Bytes | Type | Value range | Multiplier | Units | Description | HW Support | Parameter Group |
|---------------------------|--------------------------|-------|----------|--------------|------------|-------|--|--|------------------|
| | | | | Min Max | | | | | |
| 389 | OBD OEM Total Mileage | 4 | Unsigned | 0 0xffffffff | - | km | Total mileage received by requesting vehicle specific PID | FMB003 | OBD OEM elements |
| 390 | OBD OEM Fuel Level | 4 | Unsigned | 0 0xffffffff | 0.1 | l | Fuel level in litres received by requesting vehicle specific PID | FMB003 | OBD OEM elements |
| 410 | OEM Battery charge state | 1 | Unsigned | 0 1 | - | - | 0 - Not charging 1 - Charging | FMB001 FMC001 FMM001 FMB003 FMC003 FMM003 | OBD OEM elements |

| | | | | | | | | | | |
|-----|-------------------------------|---|----------|---|-------|---|-----------|---|--|------------------|
| 411 | OEM Battery charge level | 1 | Unsigned | 0 | 100 | - | % | Represents battery charged level | EMR001 EMC001 EMM001 EMR003 EMC003 EMM003 | OBD OEM elements |
| 412 | OEM Battery power consumption | 2 | Unsigned | 0 | 65535 | - | kWh/100km | Represents battery power consumption | EMR001 EMC001 EMM001 EMR003 EMC003 EMM003 | OBD OEM elements |
| 755 | OEM Remaining distance | 2 | Unsigned | 0 | 65535 | - | km | Remaining distance until fuel tank empty or battery (EV) depleted | EMR001 EMC001 EMM001 EMR003 EMC003 EMM003 | OBD OEM elements |

BLE Sensors I/O elements

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

385

Beacon

Variable

HEX

0

1024

-

-

List of Beacon IDs

[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](#)
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[FMC13](#)
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[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](#)
[FMC80](#)
[0](#)
[FMM8](#)
[00](#)
[FMM8](#)
[0A](#)

Permanent I/O elements

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

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

Bluetooth®
Low Energy

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

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

Bluetooth®
Low Energy

27 BLE Temperature #3 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

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

Bluetooth®
Low Energy

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

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

Bluetooth®
Low Energy

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|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|
| 29 | BLE Battery #1 | 1 | Unsigned | 0 | 100 | - | % | Battery level of sensor #1 | 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 | Bluetooth® Low Energy |
|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|

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|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|
| 20 | BLE Battery #2 | 1 | Unsigned | 0 | 100 | - | % | Battery level of sensor #2 | 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 | Bluetooth® Low Energy |
|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|

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|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|
| 22 | BLE Battery #3 | 1 | Unsigned | 0 | 100 | - | % | Battery level of sensor #3 | 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 | Bluetooth® Low Energy |
|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|

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|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|
| 23 | BLE Battery #4 | 1 | Unsigned | 0 | 100 | - | % | Battery level of sensor #4 | 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 | Bluetooth® Low Energy |
|----|----------------|---|----------|---|-----|---|---|----------------------------|--|--------------------------|

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|----|-----------------|---|----------|---|------|------|-----|----------|--|--------------------------|
| 86 | BLE Humidity #1 | 2 | Unsigned | 0 | 1000 | 0.1* | %RH | Humidity | 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 | Bluetooth® Low Energy |
|----|-----------------|---|----------|---|------|------|-----|----------|--|--------------------------|

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|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|
| 270 | BLE Fuel Level #1 | 2 | Unsigned | 0 | 65535 | - | - | Fuel Level | 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 | Bluetooth® Low Energy |
|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|

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|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|
| 273 | BLE Fuel Level #2 | 2 | Unsigned | 0 | 65535 | - | - | Fuel Level | 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 | Bluetooth® Low Energy |
|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|

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|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|
| 276 | BLE Fuel Level #3 | 2 | Unsigned | 0 | 65535 | - | - | Fuel Level | 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 | Bluetooth® Low Energy |
|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|

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|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|
| 279 | BLE Fuel Level #4 | 2 | Unsigned | 0 | 65535 | - | - | Fuel Level | 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 | Bluetooth® Low Energy |
|-----|-------------------|---|----------|---|-------|---|---|------------|--|--------------------------|

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|-----|-----------------|---|-----------------------------|---|----------------|---|---|----------------------------------|--|--------------------------|
| 477 | BLE 4 Custom #4 | 8 | UNSIG NED LONG INT | 0 | 42949 67295 | - | - | Custom IO element for BLE sensor | 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 | Bluetooth® Low Energy |
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|-----|---------------------------|---|----------|------|------------|-----|-----|-----------------------------------|--|--------------|
| 90 | Door Status | 2 | Unsigned | 0 | 32512 | - | - | - | Door status value: Min - 0, Max - 32512 Door status is represented as bitmask converted to decimal value. Possible values: 0 - all doors closed, 0x100 (256) - front left door is opened, 0x200 (512) - front right door is opened, 0x400 (1024) - rear left door is opened, 0x800 (2048) - rear right door is opened, 0x1000 (4096) - hood is opened, 0x2000 (8192) - trunk is opened, 0x4000 (16384) - roof is opened, 0x7F00 (32512) - all doors are opened, or combinations of values | CAN adapters |
| 103 | Engine Worktime (counted) | 4 | Unsigned | 0 | 16777215 | - | min | Total Engine work time in minutes | | CAN adapters |
| 105 | Total Mileage (counted) | 4 | Unsigned | 0 | 4294967295 | - | m | Total Vehicle Mileage, m | | CAN adapters |
| 107 | Fuel Consumed (counted) | 4 | Unsigned | 0 | 2147483647 | 0.1 | l | Total Fuel Consumed, l | | CAN adapters |
| 115 | Engine Temperature | 2 | Signed | -600 | 1270 | 0.1 | °C | Engine Temperature, °C | | CAN adapters |
| 152 | Battery Level | 1 | Unsigned | 0 | 100 | - | % | Value in percentages, % | | CAN adapters |

FMBXXX
 FMB100
 FMB110
 FMB120
 FMB122
 FMB125
 FMB130
 FMB140
 FMB140
 FMB140
 FMB142
 FMB125
 FMB126
 FMB130
 FMB130
 FMB130
 FMB130
 FMB130
 FMB150
 FMB150
 FMB150
 FMB150
 FMB250
 FMB250
 FMB250
 FMB250
 FMM250
 FMM250
 FMBXXX
 FMB100
 FMB110
 FMB120
 FMB122
 FMB125
 FMB130
 FMB140
 FMB140
 FMB140
 FMB142
 FMB125
 FMB126
 FMB130
 FMB130
 FMB130
 FMB150
 FMB150
 FMB150
 FMB150
 FMB250
 FMB250
 FMB250
 FMM250
 FMM250
 FMBXXX
 FMB100
 FMB110
 FMB120
 FMB122
 FMB125
 FMB130
 FMB140
 FMB140
 FMB140
 FMB142
 FMB125
 FMB126
 FMB130
 FMB130
 FMB130
 FMB150
 FMB150
 FMB150
 FMB150
 FMB250
 FMB250
 FMB250
 FMM250
 FMM250
 FMBXXX
 FMB100
 FMB110
 FMB120
 FMB122
 FMB125
 FMB130
 FMB140
 FMB140
 FMB140
 FMB142
 FMB125
 FMB126
 FMB130
 FMB130
 FMB130
 FMB150
 FMB150
 FMB150
 FMB150
 FMB250
 FMB250
 FMB250
 FMM250
 FMM250
 FMBXXX
 FMB100
 FMB110
 FMB120
 FMB122
 FMB125
 FMB130
 FMB140
 FMB140
 FMB140
 FMB142
 FMB125
 FMB126
 FMB130
 FMB130
 FMB130
 FMB150
 FMB150
 FMB150
 FMB150
 FMB250
 FMB250
 FMB250
 FMM250
 FMM250

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|-----|------------------------------|---|----------|---|------------|---|----|---------------------------------|--|--------------|
| 658 | TrunkDoorOpen | 1 | Unsigned | 0 | 1 | - | - | 0 - Closed 1 - Open | FMBXXX FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 659 | NeutralGearActive | 1 | Unsigned | 0 | 1 | - | - | 0 - Inactive 1 - Active | FMBXXX FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 660 | ParkingGearActive | 1 | Unsigned | 0 | 1 | - | - | 0 - Inactive 1 - Active | FMBXXX FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 661 | ReverseGearActive | 1 | Unsigned | 0 | 1 | - | - | 0 - Inactive 1 - Active | FMBXXX FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 662 | CarClosed | 1 | Unsigned | 0 | 1 | - | - | 0 - Closed 1 - Open | FMBXXX FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 866 | Vehicle Range | 4 | Unsigned | 0 | 4294967295 | - | km | Information about vehicle range | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 898 | LVCAN SSF IgnitionOn | 1 | Unsigned | 0 | 1 | - | - | | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 903 | LVCAN SSF EngineWorkingOnCNG | 1 | Unsigned | 0 | 1 | - | - | | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 911 | SSF ClutchPushed | 1 | Unsigned | 0 | 1 | - | - | | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 913 | SSF EngineCoverOpen | 1 | Unsigned | 0 | 1 | - | - | | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |

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|-----|----------------------------|---|----------|---|---|---|---|--|--------------|
| 924 | LVCAN SSF CANModuleInSleep | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 927 | SSF DriveActive | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 928 | CSF ParkingLightsOn | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 929 | CSF DippedHeadlightsOn | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 930 | CSF FullBeamHeadlightsOn | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |
| 931 | CSF RearFogLightsOn | 1 | Unsigned | 0 | 1 | - | - | FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 FMBXXX FMB100 FMB110 FMB120 FMB122 FMB125 FMB130 FMB140 FMB140 EMU120 EMU122 EMU125 EMU126 EMU130 EMU130 EMC120 EMC122 EMC125 EMC130 EMM125 EMM130 FMB150 EMC150 EMM150 FMB250 EMC250 EMM250 | CAN adapters |

| ID | Parameter Name | Length | Sign | Min | Max | Unit | Description | Source |
|------|--------------------------------------|--------|----------|-----|------------|---------|--------------------------------------|----------------|
| 944 | CSF RearCtrPassSeatbelt | 1 | Unsigned | 0 | 1 | - | - | CAN adapters |
| 1112 | HVBatteryPackVoltage | 2 | Unsigned | 0 | 65535 | V | HV battery pack voltage | LVCAN elements |
| 1113 | HVBatteryPackCurrent | 2 | Unsigned | 0 | 65535 | A | HV battery pack current | LVCAN elements |
| 1155 | HV battery consumed energy (Counted) | 4 | Unsigned | 0 | 4294967295 | 100 kWh | Energy consumed from the HV battery | LVCAN elements |
| 1156 | HV battery recup energy (Counted) | 4 | Unsigned | 0 | 4294967295 | 100 kWh | Energy recuperated to the HV battery | LVCAN elements |
| 1157 | HV battery power | 2 | Unsigned | 0 | 65535 | 10 kW | Power used from EV battery | LVCAN elements |
| 1158 | engine oil pressure | 2 | Unsigned | 0 | 65535 | 1 kPa | Engine oil pressure | LVCAN elements |
| 1159 | engine oil level | 1 | Unsigned | 0 | 100 | 1 % | Engine oil level | LVCAN elements |

- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250
- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250
- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250
- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250
- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250
- FMBXXX
- FMB100
- FMB110
- FMB120
- FMB122
- FMB125
- FMB130
- FMB140
- FMB140
- EMU120
- EMU122
- EMU125
- EMU126
- EMU130
- EMG120
- EMG122
- EMG125
- EMG130
- FMM115
- FMM130
- FMM150
- EMG150
- FMM150
- FMB250
- EMG250
- FMM250