

# FMC650 Device Family Parameter list

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## System parameters

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

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

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

## GPRS parameters

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

## SMS/Call settings

| Parameter ID | Parameter Type | Default value | Value range |     | Value   | Parameter name            |
|--------------|----------------|---------------|-------------|-----|---------|---------------------------|
|              |                |               | Min         | Max |         |                           |
| <b>3000</b>  | Uint8          | 0             | 0           | 1   | Boolean | SMS data sending settings |

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

## SMS Events

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

## GSM Operators

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

## Data Acquisition

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

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

- Home Network GSM operator code “Vehicle MOVING” parameters

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

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

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

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

- Roaming Network GSM operator code “Vehicle MOVING” parameters

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

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

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

- Unknown Network GSM operator code “Vehicle MOVING” parameters

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

## Features

- Green driving parameters

| Parameter ID | Parameter Type | Default value | Value range |     | Value                                                                                                                          | Parameter name                                |
|--------------|----------------|---------------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
|              |                |               | Min         | Max |                                                                                                                                |                                               |
| <b>11000</b> | Uint8          | 0             | 0           | 3   | 0 - Disable<br>1 - Low Priority<br>2 - High Priority<br>3 - Panic Priority                                                     | Scenario Settings                             |
| <b>11003</b> | Uint8          | 0             | 0           | 5   | 0 - None<br>1 - No DOUT control<br>2 - DOUT 1<br>3 - DOUT 2<br>4 - DOUT 3<br>5 - <a href="#">DOUT4 (Mode must be selected)</a> | Green driving digital output control settings |

|              |       |     |     |      |                                                                                          |                                  |
|--------------|-------|-----|-----|------|------------------------------------------------------------------------------------------|----------------------------------|
| <b>11007</b> | UInt8 | 0   | 0   | 3    | 0 - GNSS<br>1 - Accelerometer<br>2 - GNSS Algorithm A1<br>3 - Accelerometer Algorithm A1 | Source                           |
| <b>11019</b> | UInt8 | 0   | 0   | 1    | 0 - Disable<br>1 - Enable                                                                | Advanced Eco Driving             |
| <b>11008</b> | UInt8 | 0   | 0   | 1    | 0 - Disable<br>1 - Enable                                                                | Eco/Green Driving Duration       |
| <b>11011</b> | UInt8 | 0   | 0   | 1    | 0 - Disable<br>1 - Enable                                                                | Cornering active output duration |
| <b>11015</b> | UInt8 | 0   | 0   | 1    | 0 - Disable<br>1 - Enable                                                                | Eco Driving Maximum              |
| <b>11004</b> | UInt8 | 2.2 | 0.5 | 10   | m/s <sup>2</sup>                                                                         | Max Acceleration                 |
| <b>11005</b> | UInt8 | 2.5 | 0.5 | 10   | m/s <sup>2</sup>                                                                         | Max Braking                      |
| <b>11006</b> | UInt8 | 3.4 | 0.5 | 10   | m/s <sup>2</sup>                                                                         | Max Cornering                    |
| <b>11001</b> | UInt8 | 200 | 100 | 5000 | ms                                                                                       | DOUT ON Duration                 |
| <b>11002</b> | UInt8 | 200 | 100 | 5000 | ms                                                                                       | DOUT ON Duration                 |

- Overspeeding parameters

| Parameter ID | Parameter Type | Default value | Value range |      | Value                                                                                                                           | Parameter name    |
|--------------|----------------|---------------|-------------|------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|
|              |                |               | Min         | Max  |                                                                                                                                 |                   |
| <b>11100</b> | UInt8          | 0             | 0           | 3    | 0 - Disable<br>1 - Low Priority<br>2 - High Priority<br>3 - Panic Priority                                                      | Scenario Settings |
| <b>11103</b> | UInt8          | 0             | 0           | 5    | 0 - Disabled<br>1 - No DOUT control<br>2 - DOUT1<br>3 - DOUT2<br>4 - DOUT3<br>5 - <a href="#">DOUT4 (Mode must be selected)</a> | Output control    |
| <b>11104</b> | UInt16         | 90            | 0           | 260  | Speed                                                                                                                           | Max Speed (km/h)  |
| <b>11101</b> | UInt8          | 200           | 100         | 5000 | ms                                                                                                                              | DOUT ON Duration  |
| <b>11102</b> | UInt8          | 200           | 100         | 5000 | ms                                                                                                                              | DOUT ON Duration  |

- Network Jamming parameters

| Parameter ID | Parameter Type | Default value | Value range |       | Value                                                                                                                          | Parameter name    |
|--------------|----------------|---------------|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|
|              |                |               | Min         | Max   |                                                                                                                                |                   |
| <b>11300</b> | UInt8          | 0             | 0           | 3     | 0 - Disable<br>1 - Low Priority<br>2 - High Priority<br>3 - Panic Priority                                                     | Scenario Settings |
| <b>11304</b> | UInt8          | 0             | 0           | 5     | 0 - Disable<br>1 - No DOUT control<br>2 - DOUT1<br>3 - DOUT2<br>4 - DOUT3<br>5 - <a href="#">DOUT4 (Mode must be selected)</a> | Output control    |
| <b>11306</b> | UInt8          | 0             | 0           | 2     | 0 - Low<br>1 - Normal<br>2 - High                                                                                              | Output control    |
| <b>11303</b> | UInt8          | 1             | 0           | 1     | 0 - Disable<br>1 - Enable                                                                                                      | Eventual Records  |
| <b>11301</b> | Int32          | 0             | 0           | 65530 | Milliseconds                                                                                                                   | DOUT ON Duration  |

|              |        |     |   |       |              |                                    |
|--------------|--------|-----|---|-------|--------------|------------------------------------|
| <b>11302</b> | Int32  | 200 | 0 | 5000  | Milliseconds | DOUT ON Duration                   |
| <b>11309</b> | Int32  | 0   | 0 | 3600  | Seconds      | DOUT Hold Delay Duration           |
| <b>11305</b> | UInt16 | 60  | 0 | 65535 | Seconds      | Time Until Jamming Event Detection |

- DOUT Control Via Call parameters

| Parameter ID | Parameter Type | Default value | Value range |            | Value                                                                                                    | Parameter name             |
|--------------|----------------|---------------|-------------|------------|----------------------------------------------------------------------------------------------------------|----------------------------|
|              |                |               | Min         | Max        |                                                                                                          |                            |
| <b>12000</b> | UInt8          | 0             | 0           | 4          | 0 - Disabled<br>1 - DOUT1<br>2 - DOUT2<br>3 - DOUT3<br>4 - <a href="#">DOUT4 (Mode must be selected)</a> | Digital Output control     |
| <b>12001</b> | UInt8          | 0             | 0           | 4          | 0 - None<br>1 - DIN1<br>2 - DIN2<br>3 - DIN3<br>4 - DIN4                                                 | DOUT Deactivation Settings |
| <b>12002</b> | UInt16         | 5             | 0           | 2147483647 | Seconds                                                                                                  | Duration Timeout           |

- Immobilizer parameters

| Parameter ID | Parameter Type | Default value | Value range |       | Value                                                                                                                          | Parameter name             |
|--------------|----------------|---------------|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|              |                |               | Min         | Max   |                                                                                                                                |                            |
| <b>11700</b> | UInt8          | 0             | 0           | 3     | 0 - Disable<br>1 - Low Priority<br>2 - High Priority<br>3 - Panic Priority                                                     | Scenario Settings          |
| <b>11702</b> | UInt8          | 0             | 0           | 5     | 0 - Disable<br>1 - No DOUT control<br>2 - DOUT1<br>3 - DOUT2<br>4 - DOUT3<br>5 - <a href="#">DOUT4 (Mode must be selected)</a> | Immobilizer output control |
| <b>11701</b> | UInt8          | 1             | 0           | 1     | 0 - Disable<br>1 - Enable                                                                                                      | Eventual Records           |
| <b>11703</b> | UInt8          | 1             | 0           | 1     | 0 - Disable<br>1 - Enable<br>2 - Beacon<br>3 - Both                                                                            | iButton List Check         |
| <b>11707</b> | UInt8          | 30            | 0           | 65535 | Seconds                                                                                                                        | Ignition TMO               |
| <b>11713</b> | UInt8          | 30            | 0           | 65535 | Seconds                                                                                                                        | Authorization TMO          |

- iButton Read Notification parameters

| Parameter ID | Parameter Type | Default value | Value range |      | Value                                                                                                                          | Parameter name                           |
|--------------|----------------|---------------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|              |                |               | Min         | Max  |                                                                                                                                |                                          |
| <b>11704</b> | UInt8          | 0             | 0           | 5    | 0 - Disable<br>1 - No DOUT control<br>2 - DOUT1<br>3 - DOUT2<br>4 - DOUT3<br>5 - <a href="#">DOUT4 (Mode must be selected)</a> | iButton read notification output control |
| <b>11705</b> | UInt8          | 200           | 0           | 5000 | Milliseconds                                                                                                                   | DOUT ON Duration                         |
| <b>11706</b> | UInt8          | 0             | 0           | 1    | 0 - Disable<br>1 - Enable                                                                                                      | iButton List Checking                    |

|       |       |   |   |   |                           |                    |
|-------|-------|---|---|---|---------------------------|--------------------|
| 11708 | Uint8 | 0 | 0 | 1 | 0 - Disable<br>1 - Enable | Depend On Ignition |
|-------|-------|---|---|---|---------------------------|--------------------|

## Auto Geofence

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

## Manual Geofence

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

Similarly to a group defined in the upper table:

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

|    |       |       |       |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3  | 20140 | 20141 | 20142 | 20143 | 20144 | 20145 | 20146 | 20147 | 20148 | 20149 | 20150 | 20151 |
| 4  | 20160 | 20161 | 20162 | 20163 | 20164 | 20165 | 20166 | 20167 | 20168 | 20169 | 20170 | 20171 |
| 5  | 20180 | 20181 | 20182 | 20183 | 20184 | 20185 | 20186 | 20187 | 20188 | 20189 | 20190 | 20191 |
| 6  | 20200 | 20201 | 20202 | 20203 | 20204 | 20205 | 20206 | 20207 | 20208 | 20209 | 20210 | 20211 |
| 7  | 20220 | 20221 | 20222 | 20223 | 20224 | 20225 | 20226 | 20227 | 20228 | 20229 | 20230 | 20231 |
| 8  | 20240 | 20241 | 20242 | 20243 | 20244 | 20245 | 20246 | 20247 | 20248 | 20249 | 20250 | 20251 |
| 9  | 20260 | 20261 | 20262 | 20263 | 20264 | 20265 | 20266 | 20267 | 20268 | 20269 | 20270 | 20271 |
| 10 | 20280 | 20281 | 20282 | 20283 | 20284 | 20285 | 20286 | 20287 | 20288 | 20289 | 20290 | 20291 |
| 11 | 20300 | 20301 | 20302 | 20303 | 20304 | 20305 | 20306 | 20307 | 20308 | 20309 | 20310 | 20311 |
| 12 | 20320 | 20321 | 20322 | 20323 | 20324 | 20325 | 20326 | 20327 | 20328 | 20329 | 20330 | 20331 |
| 13 | 20340 | 20341 | 20342 | 20343 | 20344 | 20345 | 20346 | 20347 | 20348 | 20349 | 20350 | 20351 |
| 14 | 20360 | 20361 | 20362 | 20363 | 20364 | 20365 | 20366 | 20367 | 20368 | 20369 | 20370 | 20371 |
| 15 | 20380 | 20381 | 20382 | 20383 | 20384 | 20385 | 20386 | 20387 | 20388 | 20389 | 20390 | 20391 |
| 16 | 20400 | 20401 | 20402 | 20403 | 20404 | 20405 | 20406 | 20407 | 20408 | 20409 | 20410 | 20411 |
| 17 | 20420 | 20421 | 20422 | 20423 | 20424 | 20425 | 20426 | 20427 | 20428 | 20429 | 20430 | 20431 |
| 18 | 20440 | 20441 | 20442 | 20443 | 20444 | 20445 | 20446 | 20447 | 20448 | 20449 | 20450 | 20451 |
| 19 | 20460 | 20461 | 20462 | 20463 | 20464 | 20465 | 20466 | 20467 | 20468 | 20469 | 20470 | 20471 |
| 20 | 20480 | 20481 | 20482 | 20483 | 20484 | 20485 | 20486 | 20487 | 20488 | 20489 | 20490 | 20491 |
| 21 | 20500 | 20501 | 20502 | 20503 | 20504 | 20505 | 20506 | 20507 | 20508 | 20509 | 20510 | 20511 |
| 22 | 20520 | 20521 | 20522 | 20523 | 20524 | 20525 | 20526 | 20527 | 20528 | 20529 | 20530 | 20531 |
| 23 | 20540 | 20541 | 20542 | 20543 | 20544 | 20545 | 20546 | 20547 | 20548 | 20549 | 20550 | 20551 |
| 24 | 20560 | 20561 | 20562 | 20563 | 20564 | 20565 | 20566 | 20567 | 20568 | 20569 | 20570 | 20571 |
| 25 | 20580 | 20581 | 20582 | 20583 | 20584 | 20585 | 20586 | 20587 | 20588 | 20589 | 20590 | 20591 |
| 26 | 20600 | 20601 | 20602 | 20603 | 20604 | 20605 | 20606 | 20607 | 20608 | 20609 | 20610 | 20611 |
| 27 | 20620 | 20621 | 20622 | 20623 | 20624 | 20625 | 20626 | 20627 | 20628 | 20629 | 20630 | 20631 |
| 28 | 20640 | 20641 | 20642 | 20643 | 20644 | 20645 | 20646 | 20647 | 20648 | 20649 | 20650 | 20651 |
| 29 | 20660 | 20661 | 20662 | 20663 | 20664 | 20665 | 20666 | 20667 | 20668 | 20669 | 20670 | 20671 |
| 30 | 20680 | 20681 | 20682 | 20683 | 20684 | 20685 | 20686 | 20687 | 20688 | 20689 | 20690 | 20691 |
| 31 | 20700 | 20701 | 20702 | 20703 | 20704 | 20705 | 20706 | 20707 | 20708 | 20709 | 20710 | 20711 |
| 32 | 20720 | 20721 | 20722 | 20723 | 20724 | 20725 | 20726 | 20727 | 20728 | 20729 | 20730 | 20731 |
| 33 | 20740 | 20741 | 20742 | 20743 | 20744 | 20745 | 20746 | 20747 | 20748 | 20749 | 20750 | 20751 |
| 34 | 20760 | 20761 | 20762 | 20763 | 20764 | 20765 | 20766 | 20767 | 20768 | 20769 | 20770 | 20771 |
| 35 | 20780 | 20781 | 20782 | 20783 | 20784 | 20785 | 20786 | 20787 | 20788 | 20789 | 20790 | 20791 |
| 36 | 20800 | 20801 | 20802 | 20803 | 20804 | 20805 | 20806 | 20807 | 20808 | 20809 | 20810 | 20811 |
| 37 | 20820 | 20821 | 20822 | 20823 | 20824 | 20825 | 20826 | 20827 | 20828 | 20829 | 20830 | 20831 |
| 38 | 20840 | 20841 | 20842 | 20843 | 20844 | 20845 | 20846 | 20847 | 20848 | 20849 | 20850 | 20851 |
| 39 | 20860 | 20861 | 20862 | 20863 | 20864 | 20865 | 20866 | 20867 | 20868 | 20869 | 20870 | 20871 |
| 40 | 20880 | 20881 | 20882 | 20883 | 20884 | 20885 | 20886 | 20887 | 20888 | 20889 | 20890 | 20891 |
| 41 | 20900 | 20901 | 20902 | 20903 | 20904 | 20905 | 20906 | 20907 | 20908 | 20909 | 20910 | 20911 |
| 42 | 20920 | 20921 | 20922 | 20923 | 20924 | 20925 | 20926 | 20927 | 20928 | 20929 | 20930 | 20931 |
| 43 | 20940 | 20941 | 20942 | 20943 | 20944 | 20945 | 20946 | 20947 | 20948 | 20949 | 20950 | 20951 |
| 44 | 20960 | 20961 | 20962 | 20963 | 20964 | 20965 | 20966 | 20967 | 20968 | 20969 | 20970 | 20971 |
| 45 | 20980 | 20981 | 20982 | 20983 | 20984 | 20985 | 20986 | 20987 | 20988 | 20989 | 20990 | 20991 |
| 46 | 21000 | 21001 | 21002 | 21003 | 21004 | 21005 | 21006 | 21007 | 21008 | 21009 | 21010 | 21011 |
| 47 | 21020 | 21021 | 21022 | 21023 | 21024 | 21025 | 21026 | 21027 | 21028 | 21029 | 21030 | 21031 |
| 48 | 21040 | 21041 | 21042 | 21043 | 21044 | 21045 | 21046 | 21047 | 21048 | 21049 | 21050 | 21051 |
| 49 | 21060 | 21061 | 21062 | 21063 | 21064 | 21065 | 21066 | 21067 | 21068 | 21069 | 21070 | 21071 |
| 50 | 21080 | 21081 | 21082 | 21083 | 21084 | 21085 | 21086 | 21087 | 21088 | 21089 | 21090 | 21091 |
| 51 | 21100 | 21101 | 21102 | 21103 | 21104 | 21105 | 21106 | 21107 | 21108 | 21109 | 21110 | 21111 |
| 52 | 21120 | 21121 | 21122 | 21123 | 21124 | 21125 | 21126 | 21127 | 21128 | 21129 | 21130 | 21131 |
| 53 | 21140 | 21141 | 21142 | 21143 | 21144 | 21145 | 21146 | 21147 | 21148 | 21149 | 21150 | 21151 |
| 54 | 21160 | 21161 | 21162 | 21163 | 21164 | 21165 | 21166 | 21167 | 21168 | 21169 | 21170 | 21171 |
| 55 | 21180 | 21181 | 21182 | 21183 | 21184 | 21185 | 21186 | 21187 | 21188 | 21189 | 21190 | 21191 |
| 56 | 21200 | 21201 | 21202 | 21203 | 21204 | 21205 | 21206 | 21207 | 21208 | 21209 | 21210 | 21211 |
| 57 | 21220 | 21221 | 21222 | 21223 | 21224 | 21225 | 21226 | 21227 | 21228 | 21229 | 21230 | 21231 |
| 58 | 21240 | 21241 | 21242 | 21243 | 21244 | 21245 | 21246 | 21247 | 21248 | 21249 | 21250 | 21251 |
| 59 | 21260 | 21261 | 21262 | 21263 | 21264 | 21265 | 21266 | 21267 | 21268 | 21269 | 21270 | 21271 |
| 60 | 21280 | 21281 | 21282 | 21283 | 21284 | 21285 | 21286 | 21287 | 21288 | 21289 | 21290 | 21291 |
| 61 | 21300 | 21301 | 21302 | 21303 | 21304 | 21305 | 21306 | 21307 | 21308 | 21309 | 21310 | 21311 |
| 62 | 21320 | 21321 | 21322 | 21323 | 21324 | 21325 | 21326 | 21327 | 21328 | 21329 | 21330 | 21331 |
| 63 | 21340 | 21341 | 21342 | 21343 | 21344 | 21345 | 21346 | 21347 | 21348 | 21349 | 21350 | 21351 |
| 64 | 21360 | 21361 | 21362 | 21363 | 21364 | 21365 | 21366 | 21367 | 21368 | 21369 | 21370 | 21371 |
| 65 | 21380 | 21381 | 21382 | 21383 | 21384 | 21385 | 21386 | 21387 | 21388 | 21389 | 21390 | 21391 |
| 66 | 21400 | 21401 | 21402 | 21403 | 21404 | 21405 | 21406 | 21407 | 21408 | 21409 | 21410 | 21411 |
| 67 | 21420 | 21421 | 21422 | 21423 | 21424 | 21425 | 21426 | 21427 | 21428 | 21429 | 21430 | 21431 |
| 68 | 21440 | 21441 | 21442 | 21443 | 21444 | 21445 | 21446 | 21447 | 21448 | 21449 | 21450 | 21451 |
| 69 | 21460 | 21461 | 21462 | 21463 | 21464 | 21465 | 21466 | 21467 | 21468 | 21469 | 21470 | 21471 |
| 70 | 21480 | 21481 | 21482 | 21483 | 21484 | 21485 | 21486 | 21487 | 21488 | 21489 | 21490 | 21491 |
| 71 | 21500 | 21501 | 21502 | 21503 | 21504 | 21505 | 21506 | 21507 | 21508 | 21509 | 21510 | 21511 |
| 72 | 21520 | 21521 | 21522 | 21523 | 21524 | 21525 | 21526 | 21527 | 21528 | 21529 | 21530 | 21531 |
| 73 | 21540 | 21541 | 21542 | 21543 | 21544 | 21545 | 21546 | 21547 | 21548 | 21549 | 21550 | 21551 |
| 74 | 21560 | 21561 | 21562 | 21563 | 21564 | 21565 | 21566 | 21567 | 21568 | 21569 | 21570 | 21571 |
| 75 | 21580 | 21581 | 21582 | 21583 | 21584 | 21585 | 21586 | 21587 | 21588 | 21589 | 21590 | 21591 |
| 76 | 21600 | 21601 | 21602 | 21603 | 21604 | 21605 | 21606 | 21607 | 21608 | 21609 | 21610 | 21611 |
| 77 | 21620 | 21621 | 21622 | 21623 | 21624 | 21625 | 21626 | 21627 | 21628 | 21629 | 21630 | 21631 |
| 78 | 21640 | 21641 | 21642 | 21643 | 21644 | 21645 | 21646 | 21647 | 21648 | 21649 | 21650 | 21651 |
| 79 | 21660 | 21661 | 21662 | 21663 | 21664 | 21665 | 21666 | 21667 | 21668 | 21669 | 21670 | 21671 |
| 80 | 21680 | 21681 | 21682 | 21683 | 21684 | 21685 | 21686 | 21687 | 21688 | 21689 | 21690 | 21691 |
| 81 | 21700 | 21701 | 21702 | 21703 | 21704 | 21705 | 21706 | 21707 | 21708 | 21709 | 21710 | 21711 |
| 82 | 21720 | 21721 | 21722 | 21723 | 21724 | 21725 | 21726 | 21727 | 21728 | 21729 | 21730 | 21731 |
| 83 | 21740 | 21741 | 21742 | 21743 | 21744 | 21745 | 21746 | 21747 | 21748 | 21749 | 21750 | 21751 |
| 84 | 21760 | 21761 | 21762 | 21763 | 21764 | 21765 | 21766 | 21767 | 21768 | 21769 | 21770 | 21771 |
| 85 | 21780 | 21781 | 21782 | 21783 | 21784 | 21785 | 21786 | 21787 | 21788 | 21789 | 21790 | 21791 |
| 86 | 21800 | 21801 | 21802 | 21803 | 21804 | 21805 | 21806 | 21807 | 21808 | 21809 | 21810 | 21811 |
| 87 | 21820 | 21821 | 21822 | 21823 | 21824 | 21825 | 21826 | 21827 | 21828 | 21829 | 21830 | 21831 |
| 88 | 21840 | 21841 | 21842 | 21843 | 21844 | 21845 | 21846 | 21847 | 21848 | 21849 | 21850 | 21851 |
| 89 | 21860 | 21861 | 21862 | 21863 | 21864 | 21865 | 21866 | 21867 | 21868 | 21869 | 21870 | 21871 |
| 90 | 21880 | 21881 | 21882 | 21883 | 21884 | 21885 | 21886 | 21887 | 21888 | 21889 | 21890 | 21891 |
| 91 | 21900 | 21901 | 21902 | 21903 | 21904 | 21905 | 21906 | 21907 | 21908 | 21909 | 21910 | 21911 |
| 92 | 21920 | 21921 | 21922 | 21923 | 21924 | 21925 | 21926 | 21927 | 21928 | 21929 | 21930 | 21931 |
| 93 | 21940 | 21941 | 21942 | 21943 | 21944 | 21945 | 21946 | 21947 | 21948 | 21949 | 21950 | 21951 |
| 94 | 21960 | 21961 | 21962 | 21963 | 21964 | 21965 | 21966 | 21967 | 21968 | 21969 | 21970 | 21971 |
| 95 | 21980 | 21981 | 21982 | 21983 | 21984 | 21985 | 21986 | 21987 | 21988 | 21989 | 21990 | 21991 |
| 96 | 22000 | 22001 | 22002 | 22003 | 22004 | 22005 | 22006 | 22007 | 22008 | 22009 | 22010 | 22011 |
| 97 | 22020 | 22021 | 22022 | 22023 |       |       |       |       |       |       |       |       |

# Accelerometer features

- Towing detection

| Parameter ID | Parameter Type | Default value | Value range |       | Value                                                                      | Parameter name     |
|--------------|----------------|---------------|-------------|-------|----------------------------------------------------------------------------|--------------------|
|              |                |               | Min         | Max   |                                                                            |                    |
| 11600        | UInt8          | 0             | 0           | 3     | 0 - Disable<br>1 - Low priority<br>2 - High priority<br>3 - Panic priority | Priority           |
| 11601        | UInt8          | 1             | 0           | 1     | Boolean                                                                    | Eventual records   |
| 11602        | UInt16         | 5             | 0           | 65535 | Minutes                                                                    | Activation timeout |
| 11603        | UInt8          | 0             | 0           | 60    | Seconds                                                                    | Event timeout      |
| 11604        | UInt8          | 0             | 0           | 10    | Phone number                                                               | Make call to       |
| 11605        | Double         | 0.22          | 0.1         | 5     | mG                                                                         | Threshold          |
| 11606        | Double         | 1             | 0.1         | 5     | Degrees                                                                    | Angle              |
| 11607        | UInt16         | 1000          | 1           | 5000  | Milliseconds                                                               | Duration           |

- Crash detection

| Parameter ID | Parameter Type | Default value | Value range |      | Value                                                                      | Parameter name   |
|--------------|----------------|---------------|-------------|------|----------------------------------------------------------------------------|------------------|
|              |                |               | Min         | Max  |                                                                            |                  |
| 11400        | UInt8          | 0             | 0           | 3    | 0 - Disable<br>1 - Low priority<br>2 - High priority<br>3 - Panic priority | Scenario setting |
| 11401        | UInt8          | 5             | 0           | 1000 | Milliseconds                                                               | Duration         |
| 11402        | UInt16         | 1500          | 0           | 7900 | mG                                                                         | Threshold        |
| 11406        | UInt8          | 0             | 0           | 2    | 0 - Disable<br>1 - Trace Changes<br>2 - Trace Full                         | Crash Trace      |

- Excessive idling

| Parameter ID | Parameter Type | Default value | Value range |      | Value                                                                      | Parameter name    |
|--------------|----------------|---------------|-------------|------|----------------------------------------------------------------------------|-------------------|
|              |                |               | Min         | Max  |                                                                            |                   |
| 11200        | UInt8          | 0             | 0           | 3    | 0 - Disable<br>1 - Low priority<br>2 - High priority<br>3 - Panic priority | Scenario settings |
| 11203        | UInt8          | 1             | 0           | 1    | Boolean                                                                    | Eventual records  |
| 11205        | UInt8          | 300           | 0           | 3600 | Seconds                                                                    | Time to stopped   |
| 11206        | UInt8          | 5             | 0           | 3600 | Seconds                                                                    | Time to moving    |

- Accelerometer autocalibration

| Parameter ID | Parameter Type | Default value | Value range |     | Value   | Parameter name                 |
|--------------|----------------|---------------|-------------|-----|---------|--------------------------------|
|              |                |               | Min         | Max |         |                                |
| 169          | UInt8          | 1             | 0           | 1   | Boolean | Accelerometer auto calibration |

# iButton List

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

## I/O parameters

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

|       |        |      |   |          |                                                |
|-------|--------|------|---|----------|------------------------------------------------|
| 50082 | UInt16 | 1000 | 0 | 60000    | External Voltage High level                    |
| 50083 | UInt16 | 0    | 0 | 60000    | External Voltage Low level                     |
| 50084 | UInt8  | 0    | 0 | 1        | External Voltage <a href="#">Event only</a>    |
| 50085 | UInt16 | 10   | 0 | 65535    | External Voltage Average                       |
| 50090 | UInt8  | 1    | 0 | 3        | Speed <a href="#">Priority</a>                 |
| 50091 | UInt8  | 3    | 0 | 6        | Speed <a href="#">Operand</a>                  |
| 50092 | UInt16 | 0    | 0 | 300      | Speed High level                               |
| 50093 | UInt16 | 0    | 0 | 300      | Speed Low level                                |
| 50094 | UInt8  | 0    | 0 | 1        | Speed <a href="#">Event only</a>               |
| 50095 | UInt16 | 1    | 0 | 65535    | Speed Average                                  |
| 50100 | UInt8  | 0    | 0 | 3        | GSM Cell ID <a href="#">Priority</a>           |
| 50101 | UInt8  | 3    | 0 | 6        | GSM Cell ID <a href="#">Operand</a>            |
| 50102 | UInt32 | 0    | 0 | 999999   | GSM Cell ID High level                         |
| 50103 | UInt32 | 0    | 0 | 999999   | GSM Cell ID Low level                          |
| 50104 | UInt8  | 0    | 0 | 1        | GSM Cell ID <a href="#">Event only</a>         |
| 50110 | UInt8  | 0    | 0 | 3        | GSM Area Code <a href="#">Priority</a>         |
| 50111 | UInt8  | 3    | 0 | 6        | GSM Area Code <a href="#">Operand</a>          |
| 50112 | UInt32 | 0    | 0 | 999999   | GSM Area Code High level                       |
| 50113 | UInt32 | 0    | 0 | 999999   | GSM Area Code Low level                        |
| 50114 | UInt8  | 0    | 0 | 1        | GSM Area Code <a href="#">Event only</a>       |
| 50120 | UInt8  | 1    | 0 | 3        | Battery Voltage <a href="#">Priority</a>       |
| 50121 | UInt8  | 3    | 0 | 6        | Battery Voltage <a href="#">Operand</a>        |
| 50122 | UInt16 | 0    | 0 | 5000     | Battery Voltage High level                     |
| 50123 | UInt16 | 0    | 0 | 5000     | Battery Voltage Low level                      |
| 50124 | UInt8  | 0    | 0 | 1        | Battery Voltage <a href="#">Event only</a>     |
| 50125 | UInt8  | 0    | 0 | 10       | Battery Voltage Average                        |
| 50130 | UInt8  | 1    | 0 | 3        | Battery Current <a href="#">Priority</a>       |
| 50131 | UInt8  | 3    | 0 | 6        | Battery Current <a href="#">Operand</a>        |
| 50132 | UInt16 | 0    | 0 | 5000     | Battery Current High level                     |
| 50133 | UInt16 | 0    | 0 | 5000     | Battery Current Low level                      |
| 50134 | UInt8  | 0    | 0 | 1        | Battery Current <a href="#">Event only</a>     |
| 50135 | UInt8  | 0    | 0 | 10       | Battery Current Average                        |
| 50140 | UInt8  | 0    | 0 | 3        | Active GSM Operator <a href="#">Priority</a>   |
| 50141 | UInt8  | 3    | 0 | 6        | Active GSM Operator <a href="#">Operand</a>    |
| 50142 | UInt32 | 0    | 0 | 999999   | Active GSM Operator High level                 |
| 50143 | UInt32 | 0    | 0 | 999999   | Active GSM Operator Low level                  |
| 50144 | UInt8  | 0    | 0 | 1        | Active GSM Operator <a href="#">Event only</a> |
| 50150 | UInt8  | 0    | 0 | 3        | Trip Odometer <a href="#">Priority</a>         |
| 50151 | UInt8  | 3    | 0 | 6        | Trip Odometer <a href="#">Operand</a>          |
| 50152 | UInt32 | 0    | 0 | 1000000  | Trip Odometer High level                       |
| 50153 | UInt32 | 0    | 0 | 1000000  | Trip Odometer Low level                        |
| 50154 | UInt8  | 0    | 0 | 1        | Trip Odometer <a href="#">Event only</a>       |
| 50160 | UInt8  | 0    | 0 | 3        | Total Odometer <a href="#">Priority</a>        |
| 50161 | UInt8  | 3    | 0 | 6        | Total Odometer <a href="#">Operand</a>         |
| 50162 | UInt32 | 0    | 0 | 10000000 | Total Odometer High level                      |
| 50163 | UInt32 | 0    | 0 | 10000000 | Total Odometer Low level                       |
| 50164 | UInt8  | 0    | 0 | 1        | Total Odometer <a href="#">Event only</a>      |
| 50170 | UInt8  | 0    | 0 | 3        | Digital Input 1 <a href="#">Priority</a>       |
| 50171 | UInt8  | 3    | 0 | 6        | Digital Input 1 <a href="#">Operand</a>        |
| 50172 | UInt8  | 0    | 0 | 1        | Digital Input 1 High level                     |
| 50173 | UInt8  | 0    | 0 | 1        | Digital Input 1 Low level                      |
| 50174 | UInt8  | 0    | 0 | 1        | Digital Input 1 <a href="#">Event only</a>     |
| 50175 | UInt16 | 1    | 0 | 65535    | Digital Input 1 Average                        |
| 50270 | UInt8  | 0    | 0 | 3        | Digital Input 2 <a href="#">Priority</a>       |
| 50271 | UInt8  | 3    | 0 | 6        | Digital Input 2 <a href="#">Operand</a>        |
| 50272 | UInt8  | 0    | 0 | 1        | Digital Input 2 High level                     |
| 50273 | UInt8  | 0    | 0 | 1        | Digital Input 2 Low level                      |
| 50274 | UInt8  | 0    | 0 | 1        | Digital Input 2 <a href="#">Event only</a>     |
| 50275 | UInt16 | 1    | 0 | 65535    | Digital Input 2 Average                        |

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

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

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

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

|       |        |   |     |       |                                                          |
|-------|--------|---|-----|-------|----------------------------------------------------------|
| 50504 | UInt8  | 0 | 0   | 1     | LLS5 Temperature <a href="#">Event only</a>              |
| 50505 | UInt16 | 1 | 0   | 65535 | LLS5 Temperature Average                                 |
| 50780 | UInt8  | 0 | 0   | 3     | Ultrasonic UL202 Fuel level 1 <a href="#">Priority</a>   |
| 50781 | UInt8  | 3 | 0   | 6     | Ultrasonic UL202 Fuel level 1 <a href="#">Operand</a>    |
| 50782 | UInt8  | 0 | -20 | 32767 | Ultrasonic UL202 Fuel level 1 High level                 |
| 50783 | UInt8  | 0 | -20 | 32767 | Ultrasonic UL202 Fuel level 1 Low level                  |
| 50784 | UInt8  | 0 | 0   | 1     | Ultrasonic UL202 Fuel level 1 <a href="#">Event only</a> |
| 50785 | UInt16 | 1 | 0   | 65535 | Ultrasonic UL202 Fuel level 1 Average                    |
| 50790 | UInt8  | 0 | 0   | 3     | Ultrasonic UL202 Fuel level 2 <a href="#">Priority</a>   |
| 50791 | UInt8  | 3 | 0   | 6     | Ultrasonic UL202 Fuel level 2 <a href="#">Operand</a>    |
| 50792 | UInt8  | 0 | -20 | 32767 | Ultrasonic UL202 Fuel level 2 High level                 |
| 50793 | UInt8  | 0 | -20 | 32767 | Ultrasonic UL202 Fuel level 2 Low level                  |
| 50794 | UInt8  | 0 | 0   | 1     | Ultrasonic UL202 Fuel level 2 <a href="#">Event only</a> |
| 50795 | UInt16 | 1 | 0   | 65535 | Ultrasonic UL202 Fuel level 2 Average                    |
| 50800 | UInt8  | 0 | 0   | 3     | Ultrasonic UL202 Status 1 <a href="#">Priority</a>       |
| 50801 | UInt8  | 3 | 0   | 6     | Ultrasonic UL202 Status 1 <a href="#">Operand</a>        |
| 50802 | UInt8  | 0 | 0   | 255   | Ultrasonic UL202 Status 1 High level                     |
| 50803 | UInt8  | 0 | 0   | 255   | Ultrasonic UL202 Status 1 Low level                      |
| 50804 | UInt8  | 0 | 0   | 1     | Ultrasonic UL202 Status 1 <a href="#">Event only</a>     |
| 50805 | UInt16 | 1 | 0   | 65535 | Ultrasonic UL202 Status 1 Average                        |
| 50810 | UInt8  | 0 | 0   | 3     | Ultrasonic UL202 Status 2 <a href="#">Priority</a>       |
| 50811 | UInt8  | 3 | 0   | 6     | Ultrasonic UL202 Status 2 <a href="#">Operand</a>        |
| 50812 | UInt8  | 0 | 0   | 255   | Ultrasonic UL202 Status 2 High level                     |
| 50813 | UInt8  | 0 | 0   | 255   | Ultrasonic UL202 Status 2 Low level                      |
| 50814 | UInt8  | 0 | 0   | 1     | Ultrasonic UL202 Status 2 <a href="#">Event only</a>     |
| 50815 | UInt16 | 1 | 0   | 65535 | Ultrasonic UL202 Status 2                                |
| 50650 | UInt8  | 0 | 0   | 3     | Network type <a href="#">Priority</a>                    |
| 50651 | UInt8  | 3 | 0   | 6     | Network type <a href="#">Operand</a>                     |
| 50652 | UInt8  | 0 | 0   | 1     | Network type High level                                  |
| 50653 | UInt8  | 0 | 0   | 1     | Network type Low level                                   |
| 50654 | UInt8  | 0 | 0   | 1     | Network type <a href="#">Event only</a>                  |

- I/O parameters and types

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

# LVCAN

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

- LVCAN parameter configuration

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

Similarly to a group defined in the upper table:

# FMS

- FMS parameter configuration:

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

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

## Manual CAN

- Manual CAN parameter configuration:

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

|      |   |          |                   |                   |                         |           |          |      |      |
|------|---|----------|-------------------|-------------------|-------------------------|-----------|----------|------|------|
| CAN9 | 0 | Disabled | Standard (11-bit) | Extended (29-bit) | MSB 8 7 6 5 4 3 2 1 LSB | On Change | 0CFF253D | CAN1 | CAN2 |
|------|---|----------|-------------------|-------------------|-------------------------|-----------|----------|------|------|

**Priority    Output Data Mask    CAN ID    CAN SOURCE    Operand**

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

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

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

CAN69

90490

90491

90492

90493

90494

## Tachograph data

- Vehicle Data Priority Settings

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

- Tachograph Settings

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

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

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

- Tachograph parameter configuration

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

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

## RS232/RS485

- Garmin

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

- RS485

| Parameter ID | Parameter Type | Default value            | Value range |        | Value                                                                                                                                                    | Parameter name     |
|--------------|----------------|--------------------------|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|              |                |                          | Min         | Max    |                                                                                                                                                          |                    |
| 160          | UInt8          | 0                        | 0           | 8      | 0 - Disable<br>1 - Silent<br>2 - Log Mode<br>3 - NMEA<br>4 - LLS<br>5 - TCP ASCII<br>6 - TCP Binary<br>7 - TCP ASCII Buffered<br>8 - TCP Binary Buffered | RS485 working mode |
| 161          | UInt8          | Depends on selected Mode | 0           | 115200 | 0 - Default<br>1200<br>2400<br>9600<br>14400<br>19200<br>38400<br>57600<br>115200                                                                        | Baudrate           |

- LLS

| Parameter ID | Parameter Type | Default value | Value range |     | Value  | Parameter name |
|--------------|----------------|---------------|-------------|-----|--------|----------------|
|              |                |               | Min         | Max |        |                |
| 162          | UInt8          | 0             | 0           | 254 | Number | LLS 1 Address  |
| 163          | UInt8          | 0             | 0           | 254 | Number | LLS 2 Address  |
| 164          | UInt8          | 0             | 0           | 254 | Number | LLS 3 Address  |
| 165          | UInt8          | 0             | 0           | 254 | Number | LLS 4 Address  |
| 166          | UInt8          | 0             | 0           | 254 | Number | LLS 5 Address  |

- RS232 COM1

| Parameter ID | Parameter Type | Default value | Value range |     | Value                                                                                                                                                                                                                                                                           | Parameter name |
|--------------|----------------|---------------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|              |                |               | Min         | Max |                                                                                                                                                                                                                                                                                 |                |
| 151          | UInt8          | 0             | 0           | 14  | 0 - Silent<br>1 - Log Mode<br>2 - NMEA<br>3 - LLS<br>4 - LCD<br>5 - RFID HID<br>6 - RFID MF7<br>7 - Garmin FMI<br>8 - TCP ASCII<br>9 - TCP Binary<br>10 - TCP ASCII Buffered<br>11 - TCP Binary Buffered<br>12 - REC to LCD<br>13 - ATOL tachograph<br>14 - UL202-2 Fuel Sensor | Mode           |

|     |       |                          |   |        |                                                                                   |          |
|-----|-------|--------------------------|---|--------|-----------------------------------------------------------------------------------|----------|
| 152 | Uint8 | Depends on selected Mode | 0 | 115200 | 0 - Default<br>1200<br>2400<br>9600<br>14400<br>19200<br>38400<br>57600<br>115200 | Baudrate |
|-----|-------|--------------------------|---|--------|-----------------------------------------------------------------------------------|----------|

- RS232 COM2

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

## CAN \ Tachograph

- CAN1 Bus Settings

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

- CAN2 Bus Settings

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

|     |       |   |   |   |                          |               |
|-----|-------|---|---|---|--------------------------|---------------|
| 208 | Uint8 | 0 | 0 | 1 | 0 - Silent<br>1 - Normal | CAN2 Bus Mode |
|-----|-------|---|---|---|--------------------------|---------------|

- Tachograph Settings

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

- FMS Settings

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

## Continental TPMS

- TPMS Request Period

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

- Continental TPMS parameter configuration

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

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

## Mobileye

- Mobileye parameter configuration:

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

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

## Reefer

- Reefer parameter configuration:

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