**JASON File Parameter Names -**

All the AVL ID List can be found in the following link. <https://wiki.teltonika-gps.com/view/TFT100_AVL_ID_List>

For the data concerned to us, following are the names for it.

{

"state": {

"reported": {

"16": 0, *TOTAL ODOMETER*, Value in meters,

"17": 42, *AXIS X Acc*, Value in milli g’s,

"18": 7, *AXIS Y Acc*, Value in milli g’s,

"19": -1011, *AXIS Z Ac*c, Value in milli g’s,

"21": 4, *GSM Signal*, Value in 0 to 5

"24": 0, *Vehicle Speed*, Value in Km/h,

"66": 23649, *External Voltage*, Value in milli V,

"67": 3944, *Battery Voltage*, Value in milli C,

"68": 140, *Battery Current*, Value in milli Amps,

"69": 2, *GNSS Status*, Value in 0 to 5

"72": 323, *Dallas Temp 1*, Value in 0.1 ‘C,(ex 302 is 30.2 ‘C)

"73": 0, , Value in 0.1 ‘C,(ex 302 is 30.2 ‘C)

"76": "0x673C52E38100F728", *Dallas Temp 1 ID*,

"77": "0x0000000000000000",  *Dallas Temp 2 ID*,

"113": 74, *Battery Level*, Value in %, (ex 74%)

"181": 0, *GNSS PDOP*, Value in 0.0 to 499.9,

"182": 0, *GNSS HDOP*, Value in 0.0 to 499.9,

"199": 0, *Trip Odometer*, Value in meters,

"200": 0, *Sleep Mode*, Value in 0 to 4,

"239": 0, *Ignition*, Value 0 or 1,

"240": 0, *Movement*, Value 0 or 1,

"241": 40440, *Active GSM Operator*,

"902": "0x0000000000000000", CAN Frame 1

"903": "0x0000000000000000", CAN Frame 2

"904": "0x0000000000000000", CAN Frame 3

"905": "0x0000000000000000", CAN Frame 4

"906": "0x0000000000000000", CAN Frame 5

"907": "0x0000000000000000", CAN Frame 6

"908": "0x0000000000000000", CAN Frame 7

"909": "0x0000000000000000", CAN Frame 8

"ts": 1738050898000, *Timestamp* then record was generated

"pr": 0, *Record Priority*

"latlng": "0.000000,0.000000",  *Latitude and Longitude* Position

"alt": 0, *Altitude*

"ang": 0,  *Angle*

"sat": 0, *Number of Satellites Visible*

"sp": 0, *Speed*

"evt": 0

}

}

**CAN Frame 1:**

Example - CAN Frame - 0 x 02C0 01A0 0AA2 2220

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example  Decimal |
| --- | --- | --- | --- | --- | --- |
| 0 | *Temperature sensor 1* | Value offset by 16000 and is divided by 100 | 30.02 | 02C0 | -152.96 |
| 1 |
| 2 | *Temperature sensor 2* | Value offset by 16000 and is divided by 100 | -30.02 | 01A0 | -155.84 |
| 3 |
| 4 | *Temperature sensor 3* | Value offset by 16000 and is divided by 100 | 30.02 | 0AA2 | -132.78 |
| 5 |
| 6 | *Temperature sensor 4* | Value offset by 16000 and is divided by 100 | -30.02 | 2220 | -72.64 |
| 7 |

**CAN Frame 2:**

Example - CAN Frame - 0 x ABC0 A1A0 B222 C220

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Decimal |
| --- | --- | --- | --- | --- | --- |
| 0 | *Temperature sensor 5* | Value offset by 16000 and is divided by 100 | 30.02 | ABC0 | 279.68 |
| 1 |
| 2 | *Temperature sensor 6* | Value offset by 16000 and is divided by 100 | 30.02 | A1A0 | 253.76 |
| 3 |
| 4 | *Temperature sensor 7* | Value offset by 16000 and is divided by 100 | 30.02 | B222 | 296.02 |
| 5 |
| 6 | *T*emperature sensor 8 | Value offset by 16000 and is divided by 100 | 30.02 | C220 | 336.96 |
| 7 |

**CAN Frame 3:**

Example - CAN Frame - 0 x 0AC0 B1A0 0222 0521

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Value |
| --- | --- | --- | --- | --- | --- |
| 0 | *Box\_temperature(ntc)* | Value offset by 30000 and is divided by 10 | -16.3 or 25.5 | 0AC0 | -132.48 |
| 1 |
| 2 | Discharge side pressure | Value offset by 16000 and is divided by 10 | 300.2 | B1A0 | 294.72 |
| 3 |
| 4 | Suction side pressure | Value offset by 16000 and is divided by 10 | 58.9 | 0222 | -154.54 |
| 5 |
| 6 | Compressor Current | Value offset by 30000 and is divided by 100 | 55.45 | 0521 | -146.87 |
| 7 |

**CAN Frame 4:**

Example - CAN Frame - 0 x 0AB0 B1A0 0412 0400

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Value |
| --- | --- | --- | --- | --- | --- |
| 0 | Compressor Rpm | As it is. No conversion. | 4500 | 0AB0 | 2736 |
| 1 |
| 2 | Set point | Value is offset by 30000 divided by 10 | -18.5 | B1A0 | 1547.2 |
| 3 |
| 4 | TTD/TTC | Value is offset by 30000 divided by 10 | 13.5 | 0412 | -2895.8 |
| 5 |
| 6 | Hysteresis | As it is. No conversion. | 4 | 04 | 4 |
| 7 | Driver switch button | As it is. No conversion.  Bool Value (0 or 1) for now, can have multiple states in the future | 0 | 00 | 0 |

**CAN Frame 5:**

Example - CAN Frame - 0 x 0100 0100 0100 0711

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Value |
| --- | --- | --- | --- | --- | --- |
| 0 | Cooling State | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON | 1 | 01 | 1 |
| 1 | Defrost State | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON | 0 | 00 | 0 |
| 2 | Door State | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON | 1 | 01 | 1 |
| 3 | Standby Switch | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON | 0 | 00 | 0 |
| 4 | Charging Status | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON  or 2 means discharge | 1 | 01 | 1 |
| 5 | Charging interlock | As it is, No conversion.  Bool Value 0 means OFF or 1 means ON | 0 | 00 | 0 |
| 6 | Error State | Display the decimal conversion. | 7 | 07 | 7 |
| 7 | Warning State | Display the decimal conversion. | 17 | 11 | 17 |

**CAN Frame 6:**

Example - CAN Frame - 0 x 012D 0340 765E 7687

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Value |
| --- | --- | --- | --- | --- | --- |
| 0 | SOC | Value is divided by 10 | 30.1 | 012D | 012D |
| 1 |
| 2 | Voltage | Value is divided by 10 | 53.2 | 0340 | 53.2 |
| 3 |
| 4 | Current | Value is offset by 30000 divided by 10 | 30.2 | 765E | 30.2 |
| 5 |
| 6 | SOH | Value is offset by 30000 divided by 10 | 34.3 | 7687 | 34.3 |
| 7 |

**CAN Frame 7:**

Example - CAN Frame - 0 x 012D 0214 003F 0019

Byte - 0 1 2 3 4 5 6 7

| Byte | Value | Description | Final Format | Example CAN | Example Value |
| --- | --- | --- | --- | --- | --- |
| 0 | Max cell voltage | Value is divided by 10 | 30.1 | 012D | 30.1 |
| 1 |
| 2 | Min Cell voltage | Value is divided by 10 | 53.2 | 0214 | 53.2 |
| 3 |
| 4 | Max cell temperature | Offset of 40 | 45 | 0055 | 45 |
| 5 | Min cell temperature | Offset of 40 | 23 | 003F | 23 |
| 6 | Charge/Discharge cycles | As it is. | 25 | 0019 | 25 |
| 7 |

**CAN Frame 8:**

Entire Frame to be displayed as it is.

**(In hex). 16**

Example Frame - 0 x 0121 1424 A210 B201

**Display the following,**

Battery CAN Frame 8 = 01211421A210B201