FMM00A Status info

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Status info enables the user to monitor real time information of FMM00A. Following fields are displayed: **Device Info, GNSS Info, GSM Info, I/O Info, Maintenance** and etc. User is able to export all of the information to **.HTML** file using icon which is at the top right corner of the **Device Info** area.

Device Info

- Device Name
- Firmware version
- Last Start Time last device start time.
- RTC Time real-time clock or current device time.
- Power Voltage (mV)
- Device IMEI
- External Storage (used/total) Internal Flash memory free space.
- Device Uptime device uptime from last start time.
- Battery Voltage (mV)
- Internal Battery Status Charging/Not Charging

GNSS Info

- GNSS status
 - Module status ON, GPS Sleep, Deep Sleep, Online Deep Sleep, Ultra Deep Sleep mode.
 - GNSS packets the number of GNSS packets the device received from startup.
 - Fix Status Fix/No Fix. (Note: Fix time strongly depends on indoor/outdoor location. To achieve best performance acquiring GNSS fix device should be used in outdoor locations)
 - Fix Time the last GNSS fix time.
- Satellites
 - Visible the number and type of satellites that are visible.
 - In Use the number of satellites used for location positioning.

Location

- Latitude/Longitude shows current device coordinates and if you press them opens
 Object location window with a map.
- o Altitude, Angle
- HDOP, PDOP

FMM00A sends HDOP/PDOP value to the server in precision of dilution **coefficient**. HDOP/PDOP calculation depends on how many <u>GNSS sources</u> are selected. If configured GNSS Source options are "GPS" and "GLONASS" and HDOP/PDOP values are received from both systems, the parameters HDOP/PDOP will be calculated as shown below: "GPS" - 1.60;

"GLONASS" - 1.60;

"Galileo" - will be 0, because it is not selected and not taken into account;

"BeiDou" - will be 0, because it is not selected and not taken into account;

Calculation formula - ("GPS" + "GLONASS" + "Galileo" + "BeiDou") / 4 (four GNSS systems).

Calculated HDOP/PDOP value according to above parameters - (1.60 + 1.60 + 0 + 0) / 4 = 0.8 coefficient.

• Speed - current device speed.

HDOP/PDOP value calculation changes

Main calculations of separate HDOP/PDOP values of GPS, GLONASS, Galileo and BeiDou are made by GNSS modem. GNSS Modem already outputs average of HDOP/PDOP from 4 GNSS systems (Used satellites) with a formula below.

Calculation formula - ("GPS" + "GLONASS" + "Galileo (0-sat)" + "BeiDou (0-sat)") / 2 (four GNSS systems)**
Calculation formula - ("GPS" + "GLONASS") / 2 (two GNSS systems)

HDOP/PDOP will be different if it will have 19 and i.e. other packet with 6 satellites. In parsed regular AVL packet example below all of 19 satellites are shown as in use.

Parsed NMEA Record Example:

Record GPS longitude : -14116383 Record GPS latitude : 530738950

Record GPS altitude: 356 Record GPS angle: 357 Record GPS satellites: 19 Record GPS Kmh: 102

GSM Info

- GSM status
 - Modem Status
 - o SIM State Ready/Unknown
 - GPRS Status Activated/Deactivated
 - Actual Operator Code
 - Signal Level
- GPRS traffic
 - Sent Data the amount of data that has been sent by the device.
 - Received Data the amount of data that has been received by the device.
 - Total Traffic Sent Data + Received Data
- Sockets information:
 - Type AVL Data Sending
 - Socket Closed or Server domain and port which is used when sending AVL Data via TCP/UDP.
- Records
 - Sent Records count how many records were sent to the server since the last data reset.
 - Last Record Send date and time when the last record was sent.
 - Last Server Response Time date and time when the last server response was.
- SMS Count
 - Received SMS the amount of SMS messages the device has received.
 - Sent SMS the amount of SMS responses that were sent from the device.
 - SMS Count Received SMS + Sent SMS

I/O Info

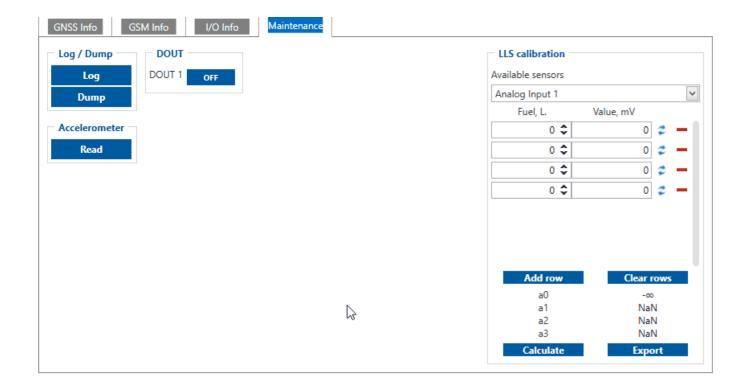
• I/O Data - shows the current values from all configurable I/O elements.

Maintenance

- Log/Dump
 - Log after button is pressed, the device starts log capturing for 10 minutes with configuration download. After this time device .log and configuration .cfg will be in compressed archive.

Archive name: YYYY_MM_DD_HH_MM_SS_FMM00A_IMEI_Log.zip

Default directory: C:\Users\<username>\Documents



• Dump - after button is pressed, the device starts to download .dmp logs and configuration .cfg from device in compressed archive.

Archive name: YYYY_MM_DD_HH_MM_SS_FMM00A_IMEI_Dump.zip
Default directory: C:\Users\<username>\Documents
Dump files can be read only with special software. If needed, provide these files to your
Teltonika sales manager or Teltonika Support team.

- Open directory this button appears near Log or Dump if one of these functions were used.
- Accelerometer after the button is pressed, the device starts to capture accelerometer values for 1 second.

OBD Info

Shows the main OBD parameters with current values when the device is connected to the vehicle via OBDII socket or using OBDII Bluetooth@Dongle.

Note: not all parameters which are displayed in the "OBD Info" tab can be readable from the vehicle.