


TMT250 Status info

[Main Page](#) > [Autonomous Trackers](#) > [TMT250](#) > [TMT250 Configuration](#) > **TMT250 Status info**



Contents

- [1 Device Info](#)
- [2 GNSS Info](#)
 - [2.1 HDOP/PDOP value calculation changes](#)
- [3 GSM Info](#)
- [4 I/O Info](#)
- [5 Maintenance](#)

Status info enables the user to monitor real time information of TMT250. 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.
 - Altitude, Angle
 - HDOP, PDOP

TMT250 sends HDOP/PDOP value to the server in precision of dilution **coefficient**. HDOP/PDOP calculation depends on how many [GNSS sources](#) 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
 - 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

GNSS Info	GSM Info	I/O Info	Maintenance
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Log / Dump

Log

Dump

Accelerometer

Read

- 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_TMT250_IMEI_Log.zip

Default directory: C:\Users\\Documents

GNSS Info GSM Info I/O Info Maintenance

Log / Dump
Log
Dump

Accelerometer
Read

DOUT
DOUT 1 OFF

LLS calibration

Available sensors
Analog Input 1

Fuel, L	Value, mV
0	0
0	0
0	0
0	0

Add row Clear rows

a0 -∞
a1 NaN
a2 NaN
a3 NaN

Calculate Export

- 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_TMT250_IMEI_Dump.zip

Default directory: C:\Users\\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.