TST100 Sleep modes

GPS Sleep mode

TST100 is able to go into GPS sleep mode if such mode is enabled.
Sleep mode timeout starts counting when device is in STOP mode. After timeout is reached and all conditions for GPS sleep mode are met, the device goes into sleep mode. When in GPS sleep mode, TST100 turns GPS module off and continues making new periodic records. As a result power usage decreases, in turn saving vehicle battery.
TST100 will enter GPS sleep mode if ALL of these conditions are met:

- TST100 is configured to work in GPS Sleep mode and sleep timeout is reached;
- Device time must be synchronized with GPS satellites. From Firmware 03.18.15 version, this condition depends on "Records saving/sending without TS" parameter:

    - After Position Fix - TST100 time is synchronized with GNSS satellites and GPS fix is obtained;
    - After Time Sync - TST100 time is synchronized over NTP, NITZ or GNSS satellites;
    - Always - TST100 will enter sleep mode without time synchronization and GPS fix.

- Movement is not detected by the accelerometer or configured movement source;
- Ignition (configured ignition source) is off;

- There are no SMS messages being received.

On Firmware version older than 03.18.15, the device time has to be synchronized with GNSS satellites and GPS fix has to be obtained in order for the device to enter GPS Sleep mode.

TST100 exits GPS sleep mode if ONE of following conditions is true:

- Movement by accelerometer or configured movement source is detected;
- Ignition (configured ignition source) is turned on.

Online Deep Sleep mode

In this mode, the device works as in deep sleep mode, but without deregistering from the GSM network. GSM part stays powered so this increases power consumption. In this mode, the device should send/receive SMS and make/accept calls. It does not close GPRS context if one was previously opened. Conditions to enter online deep sleep mode are the same as entering deep sleep mode. TST100 exits online sleep mode if ONE of following conditions is true:

- Movement by accelerometer or configured movement source is detected;
- Ignition (configured ignition source) is turned on.

Sleep Modes Table

Sleep Mode	GNSS	GSM/GPRS	Exit from Sleep Mode by	Periodic data transmission
Disabled	On	On	-	On
GPS Sleep	Off	On	Movement / Ignition	On
Online Deep Sleep	Off	Can receive SMS only	Movement / Ignition	On