



TELTONIKA FMP100 Plug and Play tracker User Manual

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FMP100 Plug and Play tracker Quick Manual V1.4

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Know your device

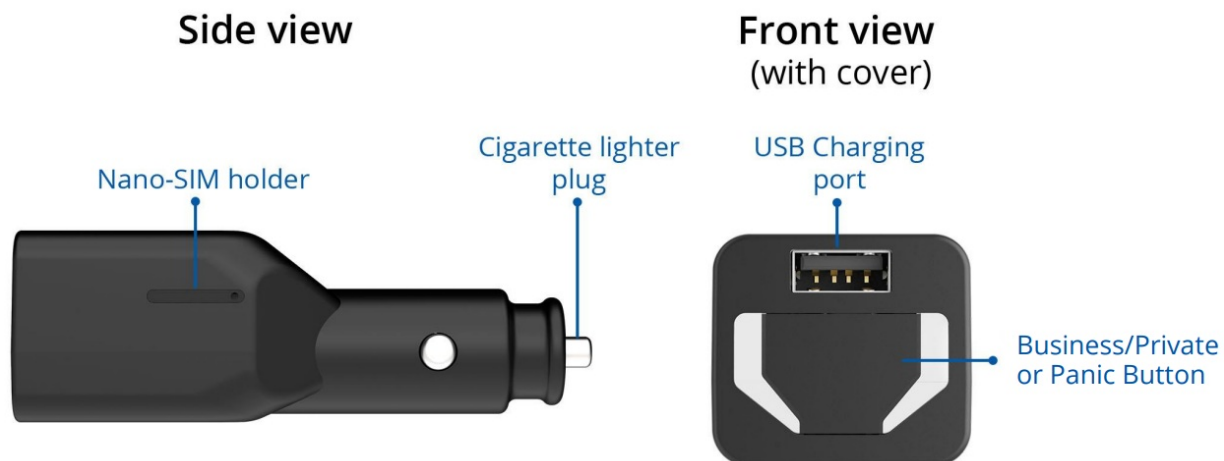
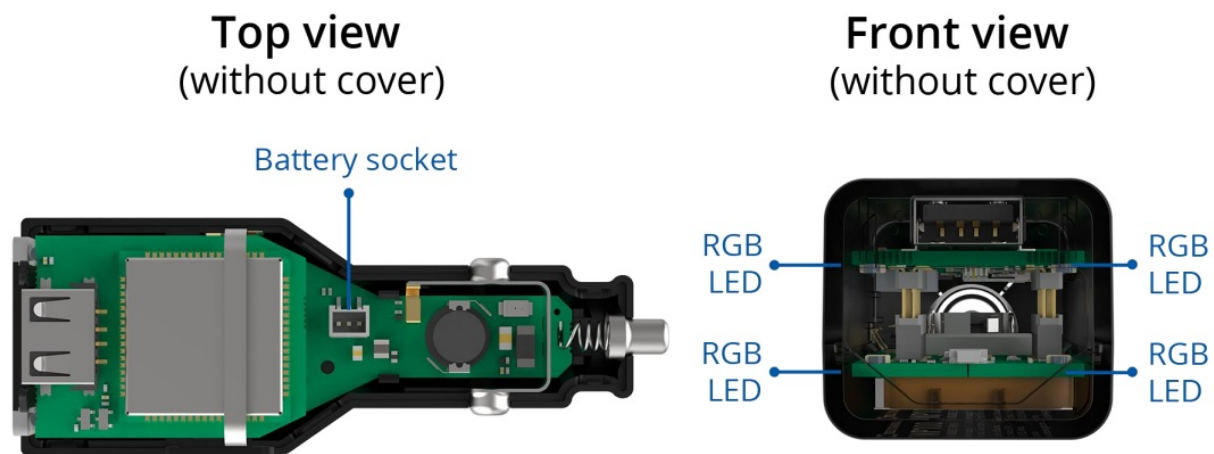


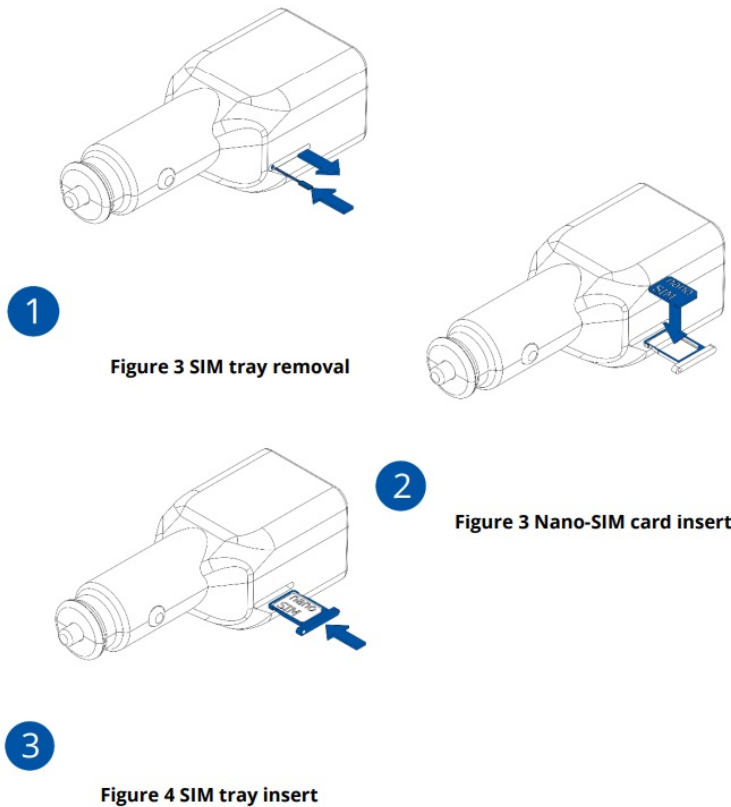
Figure 1 FMP100 device view (With covers)

Know your device



Set up your device

How to insert Nano-SIM card



1. Insert the SIM tray removal tool into the hole on the SIM card tray and then push until the tray pops out.
 2. Insert Nano-SIM card as shown with PIN request disabled or read our [Wiki](#) how to enter it later in [Teltonika Configurator](#). Make sure that Nano-SIM card is fitted properly into the tray.
 3. Insert the SIM card tray back.
 4. After configuration, see “PC Connection (Windows)”.
- Device is ready to be mounted.

PC Connection (Windows)

Connection by using Bluetooth:

1. Power-up FMP100 with DC voltage (12 – 30 V) power supply. LEDs should start blinking, see “Error! Reference source not found.”.
2. FMP100 Bluetooth is enabled by default. Turn on Bluetooth on your PC, then select Add Bluetooth or another device> Bluetooth. Choose your device named – “FMBxxx_last_7_imei_digits”, without LE in the end. Enter default password 5555, press Connect, and then select Done.


If Bluetooth connection is not possible, please refer to the [FMP100 Wiki page](#) on how to open the device casing and connect it via Micro-USB.

Configuration (Windows)

At first FMP100 device will have the default factory settings set. These settings should be changed according to the user’s needs. The main configuration can be performed via [Teltonika Configurator](#) software. Get the latest Configurator version from here. **Configurator** operates on **Microsoft Windows OS** and uses the prerequisite **MS .NET Framework**. Make sure you have the correct version installed.

Table 1 MS .NET requirements
MS .NET requirements

Operating system	MS .NET Framework version	Version	Links
Windows Vista Windows 7 Windows 8.1 Windows 10	MS .NET Framework4.6.2	32 and 64 bit	www.microsoft.com

Downloaded **Configurator** will be in a compressed archive. Extract it and launch **Configurator.exe**. After launch software language can be changed by clicking  in the right bottom corner (**Figure 5 Language selection**).

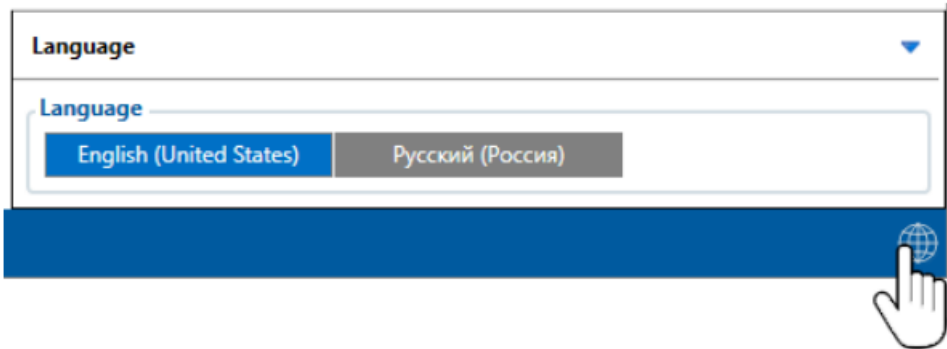


Figure 5 Language selection

The configuration process begins by pressing on a connected device (Figure 6 Device connected via Bluetooth).



Figure 6 Device connected via Bluetooth

After connection to Configurator **Status window** will be displayed (**Figure 7 Configurator Status window**).

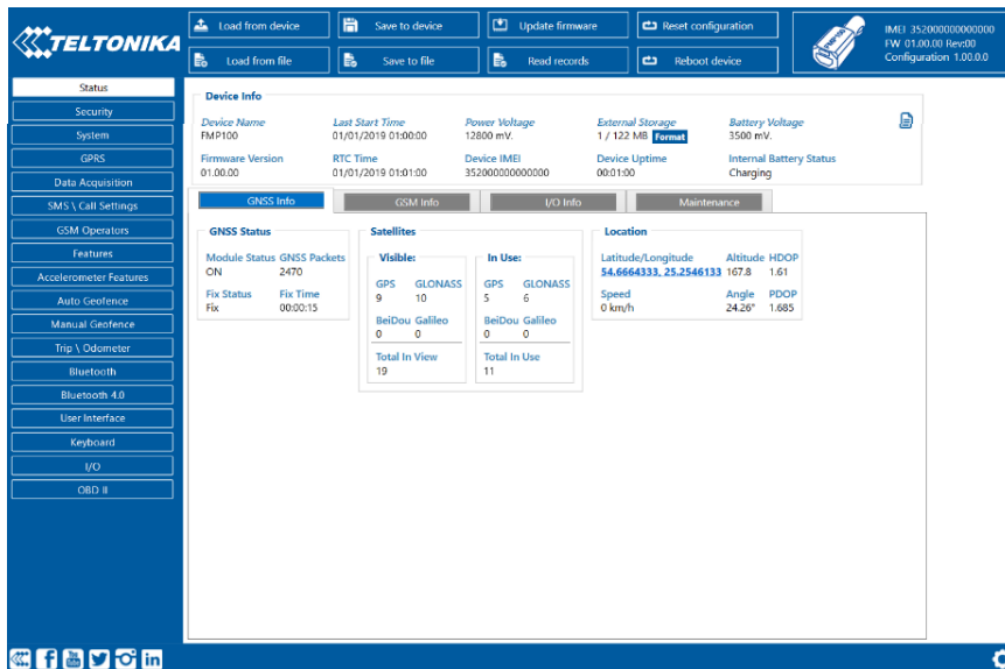










Figure 7 Configurator Status window

Various [Status window](#) tabs display information about [GNSS](#), [GSM](#), [I/O](#), [Maintenance](#) and etc. FMP100 has one user-editable modification of configuration the changes need to be saved to the device using the **Save to device** button. Main buttons offer the following functionality:

	Load from the device – loads configuration from the device.
	Save to device – saves the configuration to the device.
	Load from file – loads configuration from file.
	Save to file – saves the configuration to file.
	Update firmware – updates the firmware on the device.
	Read records – reads records from the device.
	Reboot device – restarts the device.
	Reset configuration – sets device configuration to default.

The most important configurator section is **GPRS** – where all your server and [GPRS settings](#) can be configured and [Data Acquisition](#) – where data acquiring parameters can be configured. More details about FMP100 configuration using Configurator can be found in our [Wiki](#).

Quick SMS configuration

Default configuration has optimal parameters present to ensure the best performance of track quality and data usage.

Quickly set up your device by sending this SMS command to it:

set param 2001:APN;2002:APN_username;2003:APN_password;2004:Domain;2005:Port;2006:0"

Note: Before SMS text, two space symbols should be inserted.



GPRS settings:



- 2001 – APN
- 2002 – APN username (if there are no APN username, empty field should be left)
- 2003 – APN password (if there are no APN password, empty field should be left)

Server settings:





- 2004 – Domain
- 2005 – Port
- 2006 – Data sending protocol (0 – TCP, 1 – UDP)

Default configuration settings


Movement and ignition detection:

	Vehicle movement will be detected by accelerometer
	Ignition will be detected by the vehicle power voltage between 13,2 – 30 V


Device makes a record **On Moving** if one of these events happen:

	300 seconds pass
	Vehicle turns 10 degrees
	Vehicle drives 100 meters
	Speed difference between last coordinate and current position is greater than 10 km/h

Device makes a record On Stop if:

	1-hour passes while the vehicle is stationary and ignition is off
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Records sending to server:

	If the device has made a record it is sent to the server every 120 seconds
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After successful SMS configuration, the FMP100 device will synchronize time and update records to configured server. Time intervals and default I/O elements can be changed by using [Teltonika Configurator](#) or [SMS parameters](#).

User Interface

Table 3 User interface LED indication scenarios

SCENARIO	INDICATION	MEANING
GSM error	Red LED 500 ms blink 3 times + Buzzer	SIM is not inserted, the device can't connect to the operator, or the GSM signal is being jammed
No GNSS fix	Red LED 1000 ms blink 1 time	The device doesn't have valid GNSS fix and is searching for coordinates
GNSS fix	Green LED 1000 ms blink 1 time	The device has a valid GNSS fix
Key pressed	1000 ms interval Buzzer while active	Key is pressed and held
Private Trip	Green LED 500 ms blink 3 times + Buzzer	The battery is almost fully discharged
Business Trip	Blue LED 500 ms blink 3 times + Buzzer	The indication is used to remind the user that the device is still operational

Note! This table contains only the default scenarios. Additional scenarios/default ones can be modified using Teltonika Configurator. The user is able to select different indication colors (Red, Green, or Blue), frequency of LED blinking, and buzzer status.

Keyboard

Table 4 Keyboard default actions

Action	Function
1 Click	Check Trip Mode
2 Clicks	Change Trip Mode
Long Click	Alarm

Basic characteristics

Table 5 Basic characteristics

Module	
Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLUETOOTH
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0,1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	GSM
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz
Data transfer	GPRS Multi-Slot Class 12 (up to 240 kbps)
Data support	SMS (text/data)

Power

Input voltage range	10 – 30 V DC with overvoltage protection
Back-up battery	3.7 V 170 mAh (0.63 Wh)
Power consumption	At 12V < 5 mA (Ultra Deep Sleep) At 12V < 7 mA (Deep Sleep) At 12V < 7 mA (Online Deep Sleep) At 12V < 8 mA (GPS Sleep) At 12V < 28 mA (nominal)

Bluetooth

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor , Hands-free headset , Inateck Barcode Scanner, Universal BLE sensor support

Interface

Connection	Cigarette lighter socket
Configurable buttons	1
GNSS antenna	Internal High Gain
GSM antenna	Internal GSM High Gain
USB	1 x USB 2.0 Micro-USB for configuration 1 x USB type A for external device charging (5V 1A)
LED indication	RGB LED
SIM	Nano-SIM
Memory	128MB internal flash memory

Physical specification

Dimensions	96,7 x 33,4 x 27,5 mm (L x W x H)
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Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months









Features

Sensors	Accelerometer
Scenarios	Green Driving , Over Speeding detection , Jamming detection , GNSS Fuel Counter , Excessive Idling detection , Unplug detection , Towing detection , Crash detection , Auto Geofence , Manual Geofence , Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web , FOTA , Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	OBDII
Ignition detection	Accelerometer, External Power Voltage

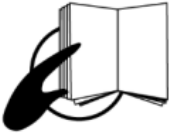


Safety information

This message contains information on how to operate FMP100 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

- The device uses SELV limited power source. The nominal voltage is +12 V DC. The allowed voltage range is +10...+30 V DC.
- To avoid mechanical damage, it is advised to transport the device in an impact-proof package. Before usage, the device should be placed so that its LED indicators are visible. They show the status of the device's operation.
- Before unmounting the device from the vehicle, the ignition **MUST** be **OFF**.

	Do not disassemble the device. If the device is damaged, the power supply cables are not isolated or the isolation is damaged, DO NOT touch the device before unplugging the power supply.
	All wireless data transferring devices produce interference that may affect other devices which are placed nearby.
	The programming must be performed using a PC with autonomic power supply.
	Installation and/or handling during a lightning storm is prohibited.
	The device is susceptible to water and humidity.
	Teltonika is not responsible for any harm caused by wrong cables used for connection between PC and FMP100
	WARNING! Do not use the FMP100 device if it distracts the driver or causes inconvenience due to cigarette lighter socket placement. The device must not interfere with the driver.
	Battery should not be disposed of with general household waste. Bring damaged or worn-out batteries to your local recycling center or dispose of them in a battery recycle bin found in stores.

Certification and Approvals

	This sign on the package means that it is necessary to read the User's Manual before your start using the device. The full User's Manual version can be found in our Wiki.
	This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.
	Hereby, Teltonika declares under our sole responsibility that the above-described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).

Warranty

TELTONIKA guarantees its products to be free of any manufacturing defects for a period of 24 months. With the additional agreement we can agree on a different warranty period, for more detailed information please contact our sales manager.

Contact us teltonika.it/company/contacts

All batteries carry a reduced 6 month warranty period.

If a product should fail within this specific warranty time, the product can be:


- Repaired
- Replaced with a new product
- Replaced with an equivalent repaired product fulfilling the same functionality
- TELTONIKA can also repair products that are out of warranty at an agreed cost.

Warranty Disclaimer

TELTONIKA PRODUCTS ARE INTENDED TO BE USED BY PERSONS WITH TRAINING AND EXPERIENCE. ANY OTHER USE RENDERS THE LIMITED WARRANTIES EXPRESSED HEREIN AND ALL IMPLIED WARRANTIES NULL AND VOID AND THE SAME ARE HEREBY EXCLUDED. ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

More information can be found at teltonika.it/warranty-repair

Documents / Resources

	TELTONIKA FMP100 Plug and Play tracker [pdf] User Manual FMP100, Plug and Play tracker, Play tracker, Plug tracker, Tracker
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References

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