

# FMT100 First Start

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**Special and small waterproof GNSS tracker with built-in accelerometer.**



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## Know your device



## Pinout

<b>PIN NUMBER</b>	<b>PIN NAME</b>	<b>DESCRIPTION</b>
1	<b>VCC</b> (10-30)V DC (+)	<b>(Red)</b> Power supply (+10-30 V DC)
2	<b>GND</b> (-)	<b>(Black)</b> Ground



# Set up your device

## How to insert Micro-SIM card and connect the battery

1. Unscrew **6 screws** counterclockwise.
2. Remove the **cover**.
3. Insert **Micro-SIM** card as shown with **PIN request disabled** or read [Security info](#) how to enter it later with [Teltonika Configurator](#). Make sure that Micro-SIM card **cut-off corner** is pointing forward to slot.
4. Connect the **battery** as shown to device. Position the battery in place where it does not obstruct other components.
5. After **configuration**, see [PC Connection \(Windows\)](#), attach device **cover** back and **screw** in all screws.
6. Device is ready to be mounted.



**Micro-SIM card insertion/removal must be performed when device is powered off - external voltage and battery are disconnected. Otherwise Micro-SIM card might be damaged or device will not detect it.**

## PC Connection (Windows)

1. Power-up FMT100 with **DC voltage 10-30 V** power supply using **power cable**. LED's should start blinking, see "[FMT100 LED status](#)".
2. Connect device to computer using **Micro-USB cable** or **Bluetooth®** connection:
  - Using **Micro-USB cable**
    - You will need to install USB drivers, see "[How to install USB drivers \(Windows\)](#)"
  - Using **Bluetooth®**
    - FMT100 Bluetooth® is enabled by default. Turn on **Bluetooth®** on your PC, then select **Add Bluetooth® or other device > Bluetooth®**. Choose your device named - "**FMT100\_last\_7\_imei\_digits**", without **LE** in the end. Enter default password **5555**, press **Connect** and then select **Done**.
3. You are now ready to use the device on your computer.

## How to install USB drivers (Windows)

1. Please download COM port drivers from [here](#).
2. Extract and run **TeltonikaCOMDriver.exe**.
3. Click **Next** in driver installation window.
4. In the following window click **Install** button.
5. Setup will continue installing the driver and eventually the confirmation window will appear. Click **Finish** to complete the setup.


## Configuration (Windows)

At first FMT100 device will have default factory settings set. These settings should be changed according to the user's needs.

Main configuration can be performed via [Teltonika Configurator](#) software. Get the latest FMT100 **Configurator** version from [here](#). Configurator operates on Microsoft Windows OS and uses prerequisite MS .NET Framework. Make sure you have the correct version installed.

### MS .NET requirements

<u>Operating system</u>	<u>MS .NET Framework version</u>	<u>Version</u>	<u>Link</u>
• Windows Vista	MS .NET Framework 5.0	32 and 64 bit	<a href="#">.NET Framework</a>
• Windows 7			
• Windows 8.1			
• Windows 10			

Downloaded **Configurator** will be in compressed archive. Extract it and launch **Configurator.exe**. After launch software language can be changed by clicking  in the right bottom corner:











Configuration process begins by pressing on connected device:



After connection to Configurator **Status window** will be displayed:



Various [Status window](#) tabs display information about [GNSS](#), [GSM](#), [I/O](#), [Maintenance](#) and etc. FMT100 has one user editable profile, which can be loaded and saved to the device. After any modification of configuration the changes need to be saved to device using **Save to device** button. Main buttons offer following functionality:

1.  **Load from device** - loads configuration from device.
2.  **Save to device** - saves configuration to device.
3.  **Load from file** - loads configuration from file.
4.  **Save to file** - saves configuration to file.
5.  **Update firmware** - updates firmware on device.
6.  **Read records** - read records from device.
7.  **Reboot device** - restarts device.
8.  **Reset configuration** - sets device configuration to default.

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 FMT100 configuration using Configurator can be found [here](#).

## Quick SMS configuration

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

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

```
" setparam  
2001:APN;2002:APN_username;2003:APN_password;2004:Domain;2005:Port;2006:0"
```

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)

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



### Default configuration settings

Movement and ignition detection:

Vehicle movement will be detected by accelerometer

Ignition will be detected by vehicle power voltage between 13,2 - 30 V

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

300 seconds passes

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 vehicle is stationary and ignition is off

Records sending to server:

If device has made a record it is sent to the server every 120 seconds

After successful SMS configuration, FMT100 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](#).

# Quick installation guide

## Mounting recommendations



Double sided tape on the back



Example of device mounting

Device fastening

- Locate the battery in your vehicle. If present remove the battery cover to access the battery.
- Wipe clean the installation surface of the battery if any dust or dirt is visible.
- There is a double sided tape on the back of the device, use it to attach the device on the battery, so that the GNSS antenna and LEDs indicators are facing up.

Connecting power wire

- Device power wire is designed to be directly connected to the positive terminal fastener of the vehicle battery.

Connecting ground wire

- Device ground wire is designed to be directly connected to the negative terminal fastener of the vehicle battery.

## Safety information

This message contains information on how to operate FMT100 safely. By following these requirements and recommendations, you will avoid any dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

- The device uses a 10 V...30 V DC power supply. The nominal voltage is 12 V DC. The allowed range of voltage is 10 V...30 V DC.
- To avoid mechanical damage, it is advised to transport the device in an impact-proof package.
- Before dismounting the device from the vehicle, 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.**

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  - All wireless data transferring devices produce interference that may affect other devices which are placed nearby.**

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  - The device must be connected only by qualified personnel.**

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  - The device must be firmly fastened in a predefined location.**

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  - The programming must be performed using a PC with autonomic power supply.**

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  - The device is susceptible to water and humidity if the device housing is not properly closed.**

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  - Installation and/or handling during a lightning storm is prohibited.**

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  - Teltonika is not responsible for any harm caused by wrong cables used for connection between PC and FMT100**

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  - Risk of explosion if battery is replaced by an incorrect type.**

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  - Battery should not be disposed of with general household waste. Bring damaged or worn-out batteries to your local recycling center or dispose them to battery recycle bin found in stores.**
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<https://teltonika-gps.com/product/fmt100/>