



# FMB122

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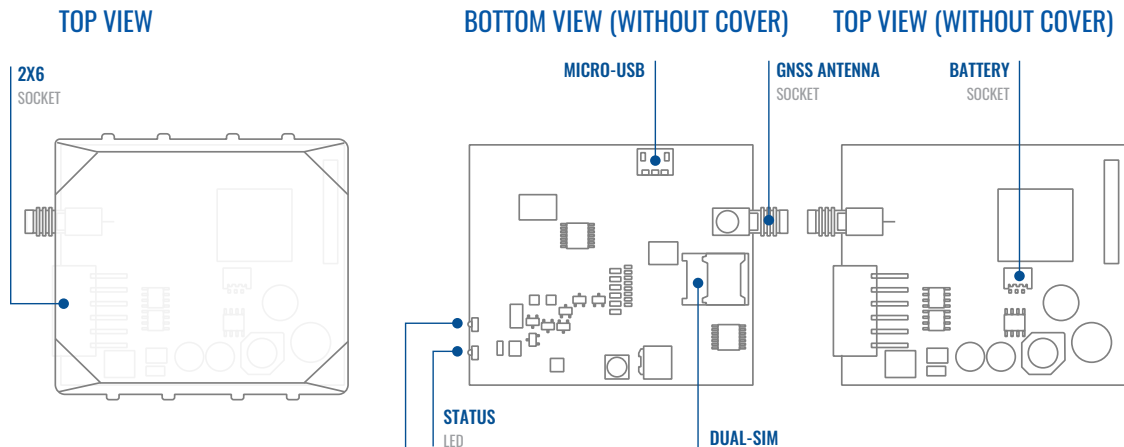
Dual-SIM tracker with  
external GNSS antenna

Quick Manual v1.9

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# KNOW YOUR DEVICE



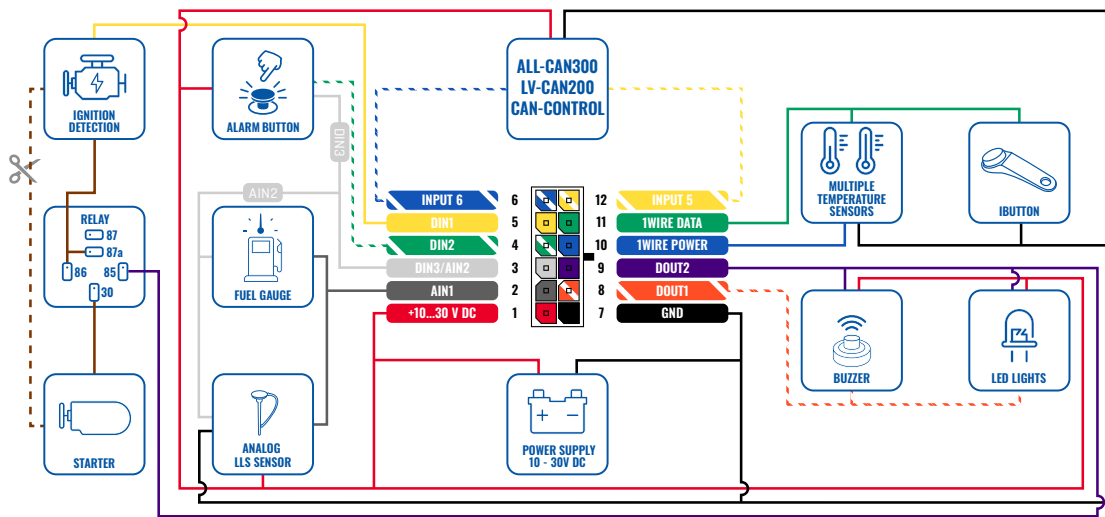
# PINOUT

PIN NUMBER	PIN NAME	DESCRIPTION
1	VCC (10-30) V DC (+)	Power supply (+10-30 V DC).
2	AIN 1	Analog input, channel 1. Input range: 0-30 V DC.
3	AIN 2 / DIN 3	Analog input, channel 2. Input range: 0-30 V DC / Digital input, channel 3.
4	DIN 2	Digital input, channel 2.
5	DIN 1	Digital input, channel 1.
6	INPUT 6	TX EXT (LV CAN – TX).
7	GND (-)	Ground pin. (10-30) V DC (—)
8	DOUT 1	Digital output, channel 1. Open collector output. Max. 0,5 A DC
9	DOUT 2	Digital output, channel 1. Open collector output. Max. 0,5 A DC
10	1WIRE POWER	+3,8 V output for 1-Wire devices.
11	1WIRE DATA	Data for 1-Wire devices.
12	INPUT 5	RX EXT (LV CAN - RX).



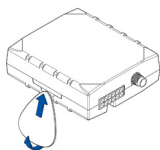
FMB122 2x6 socket pinout

# WIRING SCHEME



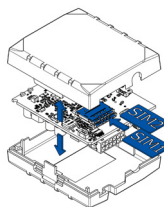
# SET UP YOUR DEVICE

## HOW TO INSERT MICRO-SIM CARD AND CONNECT THE BATTERY



### 1 COVER REMOVAL

Gently remove FMB122 cover using plastic pry tool from both sides.

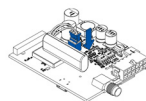


### 2 MICRO-SIM CARD INSERT

Insert SIM card as shown with **PIN request disabled** or read our [Wiki](#)<sup>1</sup> how to enter it later in [Teltonika Configurator](#)<sup>2</sup>. Make sure that SIM card **cut-off corner** is pointing outward from slot. **SIM slot 1** is closer to PCB, **SIM slot 2** is the top one.

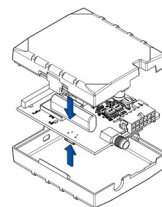
<sup>1</sup>[wiki.teltonika-gps.com/view/FMB122\\_Security\\_info](http://wiki.teltonika-gps.com/view/FMB122_Security_info)

<sup>2</sup>[wiki.teltonika-gps.com/view/Teltonika\\_Configurator](http://wiki.teltonika-gps.com/view/Teltonika_Configurator)



### 3 BATTERY CONNECTION

Connect **battery** as shown to device. Position the battery in place where it does not obstruct other components.



### 4 ATTACHING COVER BACK

After **configuration**, see "[PC Connection \(Windows\)](#)", attach device **cover** back.

<sup>1</sup> Page 7, "PC Connection (Windows)"

# PC CONNECTION (WINDOWS)

1. Power-up FMB122 with **DC voltage (10 – 30 V)** power supply using **supplied power cable**. LED's should start blinking, see "**LED indications**".
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)**"<sup>2</sup>
  - Using **Bluetooth® wireless technology**
    - FMB122 **Bluetooth® technology** is enabled by default. Turn on Bluetooth® connection on your PC, then select **Add Bluetooth® or other device > Bluetooth®**. Choose your device named – "**FMB122\_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.

<sup>1</sup>[wiki.teltonika-gps.com/view/FMB122\\_LED\\_status](http://wiki.teltonika-gps.com/view/FMB122_LED_status)

<sup>2</sup>Page 6, "How to install USB drivers"

## HOW TO INSTALL USB DRIVERS (WINDOWS)

1. Please download COM port drivers from [here](#)<sup>1</sup>.
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.

<sup>1</sup>[teltonika.lt/downloads/en/FMB122/TeltonikaCOMDriver.zip](http://teltonika.lt/downloads/en/FMB122/TeltonikaCOMDriver.zip)

# CONFIGURATION

At first FMB122 device will have default factory settings set. These settings should be changed according to the users needs. Main configuration can be performed via [Teltonika Configurator](#)<sup>1</sup> software. Get the latest **Configurator** version from [here](#)<sup>2</sup>. Configurator operates on **Microsoft Windows OS** and uses prerequisite **MS .NET Framework**. Make sure you have the correct version installed.

<sup>1</sup> [wiki.teltonika-gps.com/view/Teltonika\\_Configurator](http://wiki.teltonika-gps.com/view/Teltonika_Configurator)

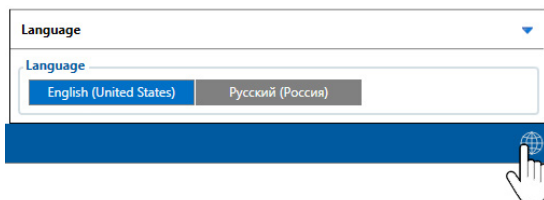
<sup>2</sup> [wiki.teltonika-gps.com/view/Teltonika\\_Configurator\\_versions](http://wiki.teltonika-gps.com/view/Teltonika_Configurator_versions)


## MS .NET REQUIREMENTS

Operating system	MS .NET Framework version	Version	Links
Windows Vista			
Windows 7	MS .NET Framework 4.6.2	32 and 64 bit	<a href="http://www.microsoft.com">www.microsoft.com</a> <sup>1</sup>
Windows 8.1			
Windows 10			

<sup>1</sup> [dotnet.microsoft.com/en-us/download/dotnet-framework/net462](http://dotnet.microsoft.com/en-us/download/dotnet-framework/net462)

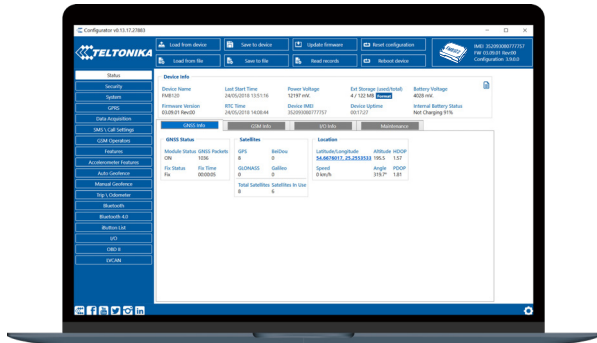




Downloaded Configurator will be in compressed archive. Extract it and launch Configurator.exe. After launch software language can be changed by clicking  in the right bottom corner.











Configuration process begins by pressing on connected device.



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

Various **Status window**<sup>1</sup> tabs display information about **GNSS**<sup>2</sup>, **GSM**<sup>3</sup>, **I/O**<sup>4</sup>, **Maintenance**<sup>5</sup> and etc. FMB122 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:

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

Most important configurator section is **GPRS** – where all your server and **GPRS settings**<sup>6</sup> can be configured and **Data Acquisition**<sup>7</sup> – where data acquiring parameters can be configured. More details about FMB122 configuration using Configurator can be found in our **Wiki**<sup>8</sup>.

<sup>1</sup> [wiki.teltonika-gps.com/view/FMB122\\_Status\\_info](http://wiki.teltonika-gps.com/view/FMB122_Status_info)

<sup>2</sup> [wiki.teltonika-gps.com/view/FMB122\\_Status\\_info#GNSS\\_Info](http://wiki.teltonika-gps.com/view/FMB122_Status_info#GNSS_Info)

<sup>3</sup> [wiki.teltonika-gps.com/view/FMB122\\_Status\\_info#GSM\\_Info](http://wiki.teltonika-gps.com/view/FMB122_Status_info#GSM_Info)

<sup>4</sup> [wiki.teltonika-gps.com/view/FMB122\\_Status\\_info#I2FO\\_Info](http://wiki.teltonika-gps.com/view/FMB122_Status_info#I2FO_Info)

<sup>5</sup> [wiki.teltonika-gps.com/view/FMB122\\_Status\\_info#Maintenance](http://wiki.teltonika-gps.com/view/FMB122_Status_info#Maintenance)

<sup>6</sup> [wiki.teltonika-gps.com/index.php?title=FMB122\\_GPRS\\_settings](http://wiki.teltonika-gps.com/index.php?title=FMB122_GPRS_settings)

<sup>7</sup> [wiki.teltonika-gps.com/index.php?title=FMB122\\_Data\\_acquisition\\_settings](http://wiki.teltonika-gps.com/index.php?title=FMB122_Data_acquisition_settings)

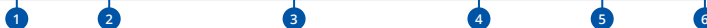
<sup>8</sup> [wiki.teltonika-gps.com/index.php?title=FMB122\\_Configuration](http://wiki.teltonika-gps.com/index.php?title=FMB122_Configuration)

# 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»
```



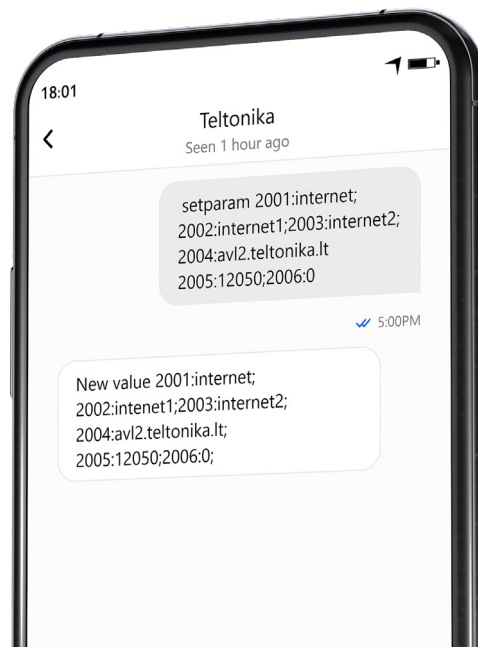
**Note:** Before SMS text, two space symbols should be inserted.

## GPRS SETTINGS:

- 1 2001 – APN
- 2 2002 – APN username (if there are no APN username, empty field should be left)
- 3 2003 – APN password (if there are no APN password, empty field should be left)

## SERVER SETTINGS:

- 4 2004 – Domain
- 5 2005 – Port
- 6 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  
vehicle power voltage  
between 13,2 – 30 V



**PASSES**  
300 seconds



**VEHICLE DRIVES**  
100 meters



**VEHICLE TURNS**  
10 degrees



**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



**EVERY 120 SECOND**  
it is sent to the server  
If device has made a  
record

### RECORDS SENDING TO SERVER:

After successful SMS configuration, FMB122 device will synchronize time and update records to configured server. Time intervals and default I/O elements can be changed by using [Teltonika Configurator](#)<sup>1</sup> or [SMS parameters](#)<sup>2</sup>.

<sup>1</sup> [wiki.teltonika-gps.com/view/Teltonika\\_Configurator](http://wiki.teltonika-gps.com/view/Teltonika_Configurator)

<sup>2</sup> [wiki.teltonika-gps.com/view/Template:FMB\\_Device\\_Family\\_Parameter\\_list](http://wiki.teltonika-gps.com/view/Template:FMB_Device_Family_Parameter_list)

# MOUNTING RECOMMENDATIONS

## CONNECTING WIRES

- Wires should be fastened to the other wires or non-moving parts. Try to avoid heat emitting and moving objects near the wires.
- The connections should not be seen very clearly. If factory isolation was removed while connecting wires, it should be applied again.
- If the wires are placed in the exterior or in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional isolation should be applied.
- Wires cannot be connected to the board computers or control units.

## CONNECTING POWER SOURCE

- Be sure that after the car computer falls asleep, power is still available on chosen wire. Depending on car, this may happen in 5 to 30 minutes period.
- When module is connected, measure voltage again to make sure it did not decrease.
- It is recommended to connect to the main power cable in the fuse box.
- Use 3A, 125V external fuse.

## CONNECTING IGNITION WIRE

- Be sure to check if it is a real ignition wire i. e. power does not disappear after starting the engine.
- Check if this is not an ACC wire (when key is in the first position, most of the vehicle electronics are available).
- Check if power is still available when you turn off any of vehicles devices.
- Ignition is connected to the ignition relay output. As alternative, any other relay, which has power output when ignition is on, may be chosen.

## CONNECTING GROUND WIRE

- Ground wire is connected to the vehicle frame or metal parts that are fixed to the frame.
- If the wire is fixed with the bolt, the loop must be connected to the end of the wire.
- For better contact scrub paint from the spot where loop is going to be connected.

# LED INDICATIONS

## NAVIGATION LED INDICATIONS

BEHAVIOUR	MEANING
Permanently switched on	GNSS signal is not received
Blinking every second	Normal mode, GNSS is working
Off	GNSS is turned off because: Device is not working or Device is in sleep mode
Blinking fast constantly	Device firmware is being flashed

## STATUS LED INDICATIONS

BEHAVIOUR	MEANING
Blinking every second	Normal mode
Blinking every two seconds	Sleep mode
Blinking fast for a short time	Modem activity
Off	Device is not working or Device is in boot mode

# BASIC CHARACTERISTICS

## MODULE

Name	Teltonika TM2500
Technology	GSM/GPRS/GNSS/BLE/BT® LE

## GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s
Cold start	< 35 s

## CELLUAR

Technology	GSM
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz

Data transfer	GPRS Multi-Slot Class 12 (up to 240 kbps), GPRS Mobile Station Class B
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Data support	SMS (text/data)
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## POWER

Input voltage range	10-30 V DC with overvoltage protection
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Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
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Internal fuse	3 A, 125 V
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Power consumption	At 12V < 6 mA ( <b>Ultra Deep Sleep</b> <sup>1</sup> )
	At 12V < 8 mA ( <b>Deep Sleep</b> <sup>1</sup> )
	At 12V < 11 mA ( <b>Online Deep Sleep</b> <sup>1</sup> )
	At 12V < 19 mA ( <b>GPS Sleep</b> <sup>3</sup> )
	At 12V < 34 mA (nominal, with no load)
	At 12V < 1.5A Max. (with full Load / Peak)

## BLUETOOTH® TECHNOLOGY

Specification	4.0 + LE
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Supported peripherals	Temperature and Humidity sensor <sup>2</sup> , Headset <sup>3</sup> , OBDII dongle <sup>4</sup> , Inateck Barcode Scanner, Universal Bluetooth® LE sensors support sensors support
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<sup>1</sup> [wiki.teltonika-gps.com/view/FMB122\\_Sleep\\_modes](http://wiki.teltonika-gps.com/view/FMB122_Sleep_modes)

<sup>2</sup> [teltonika-gps.com/products/accessories](http://teltonika-gps.com/products/accessories)

<sup>3</sup> [wiki.teltonika-gps.com/view/How\\_to\\_connect\\_Bluetooth\\_Hands\\_Free\\_adapter\\_to\\_FMB\\_device](http://wiki.teltonika-gps.com/view/How_to_connect_Bluetooth_Hands_Free_adapter_to_FMB_device)

<sup>4</sup> [wiki.teltonika-gps.com/view/How\\_to\\_connect\\_OBD\\_II\\_Bluetooth\\_](http://wiki.teltonika-gps.com/view/How_to_connect_OBD_II_Bluetooth_)

## INTERFACE

Digital Inputs	3
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Digital Outputs	2
-----------------	---

Analog Inputs	2
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CAN Adapter inputs	1
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1-Wire	1
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GNSS antenna	External (MMCX connector)
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GSM antenna	Internal High Gain
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USB	2.0 Micro-USB
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LED indication	2 status LED lights
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SIM	Dual SIM
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Memory	128MB internal flash memory
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## PHYSICAL SPECIFICATION

Dimensions	65 x 56,6 x 20,6 mm (L x W x H)
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Weight	55 g
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## OPERATING ENVIRONMENT

Operating temperature (without battery)	-40 °C to +85 °C
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Storage temperature (without battery)	-40 °C to +85 °C
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[Dongle\\_to\\_FMB\\_device](#)

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	<b>Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call</b> , Excessive Idling detection, <b>Immobilizer, iButton Read Notification</b> , Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip <sup>5</sup>
Sleep modes	<b>GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep</b> <sup>6</sup>
Configuration and firmware update	<b>FOTA Web</b> <sup>7</sup> , FOTA, <b>Teltonika Configurator</b> <sup>8</sup> (USB, Bluetooth® wireless technology), FMBT mobile application (Configuration)

SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	LLS (Analog), <b>LV-CAN200</b> <sup>9</sup> , <b>ALL-CAN300</b> <sup>10</sup> , <b>OBDDI dongle</b> <sup>11</sup> , RS232/RS485 fuel sensor, <b>CAN-CONTROL</b> <sup>12</sup>
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDDI dongle)

<sup>5</sup>[wiki.teltonika-gps.com/view/FMB122\\_Features\\_settings](https://wiki.teltonika-gps.com/view/FMB122_Features_settings)

<sup>6</sup>[wiki.teltonika-gps.com/view/FMB122\\_Sleep\\_modes](https://wiki.teltonika-gps.com/view/FMB122_Sleep_modes)

<sup>7</sup>[wiki.teltonika-gps.com/view/FOTA\\_WEB](https://wiki.teltonika-gps.com/view/FOTA_WEB)

<sup>8</sup>[wiki.teltonika-gps.com/view/Teltonika\\_Configurator](https://wiki.teltonika-gps.com/view/Teltonika_Configurator)

<sup>9</sup>[teltonika-gps.com/products/trackers/can-obd-data/lv-can200](https://teltonika-gps.com/products/trackers/can-obd-data/lv-can200)

<sup>10</sup>[teltonika-gps.com/products/trackers/can-obd-data/all-can300](https://teltonika-gps.com/products/trackers/can-obd-data/all-can300)

<sup>11</sup>[wiki.teltonika-gps.com/view/How\\_to\\_connect\\_OBD\\_II\\_Bluetooth\\_Dongle\\_to\\_FMB\\_device](https://wiki.teltonika-gps.com/view/How_to_connect_OBD_II_Bluetooth_Dongle_to_FMB_device)

<sup>12</sup>[teltonika-gps.com/products/trackers/can-obd-data/can-control](https://teltonika-gps.com/products/trackers/can-obd-data/can-control)

# ELECTRICAL CHARACTERISTICS

CHARACTERISTIC DESCRIPTION	VALUE			
	MIN.	TYP.	MAX.	UNIT
<b>SUPPLY VOLTAGE</b>				
Supply Voltage (Recommended Operating Conditions)	+10		+30	V
<b>DIGITAL OUTPUT (OPEN DRAIN GRADE)</b>				
Drain current (Digital Output OFF)			120	μA
Drain current (Digital Output ON, Recommended Operating Conditions)		0.1	0.5	A
Static Drain-Source resistance (Digital Output ON)		400	600	mΩ
<b>DIGITAL INPUT</b>				
Input resistance (DIN1)	47			kΩ
Input resistance (DIN2)	51.7			kΩ
Input resistance (DIN3)	150			kΩ

CHARACTERISTIC DESCRIPTION	VALUE			
	MIN.	TYP.	MAX.	UNIT
Input voltage (Recommended Operating Conditions)	0		Supply voltage	V
Input Voltage threshold (DIN1)		7.5		V
Input Voltage threshold (DIN2)		2.5		V
Input Voltage threshold (DIN3)		2.5		V
<b>ANALOG INPUT</b>				
Input voltage (Recommended Operating Conditions), Range 1	0		+10	V
Input resistance, Range 1		38.45		kΩ
Measurement error on 12V, Range 1		0.9		%
Additional error on 12 V, Range 1		108		mV
Measurement error on 30 V, Range 1		0.33		%
Additional error on 30 V, Range 1		88		mV



CHARACTERISTIC DESCRIPTION	VALUE			
	MIN.	TYP.	MAX.	UNIT
Input Voltage (Recommended Operating Conditions), Range 2	0		+30	V
Input resistance, Range 2		150		kΩ
Measurement error on 12 V, Range 2		0.9		%
Additional error on 12 V, Range 2		108		mV
Measurement error on 30 V, Range 2		0.33		%
Additional error on 30 V, Range 2		88		mV

#### OUTPUT SUPPLY VOLTAGE 1-WIRE

Supply voltage	+4.5		+4.7	V
Output inner resistance		7		Ω
Output current (Uout > 3.0 V)		30		mA
Short circuit current (Uout = 0)		75		mA

# SAFETY INFORMATION

This message contains information on how to operate FMB122 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 device operation.
- When connecting the 2x6 connector wires to the vehicle, the appropriate jumpers of the vehicle power supply should be disconnected.
- Before unmounting the device from the vehicle, the 2x6 connector must be disconnected. The device is designed to be mounted in a zone of limited access, which is inaccessible to the operator. All related devices must meet the requirements of EN 62368-1 standard.
- The device FMB122 is not designed as a navigational device for boats.



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 device must be connected only by qualified personnel.



The device must be firmly fastened in a predefined location.



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.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



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.

# 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. Full User's Manual version can be found in our [Wiki](#)<sup>1</sup>.

<sup>1</sup> [wiki.teltonika-gps.com/index.php?title=FMB122](http://wiki.teltonika-gps.com/index.php?title=FMB122)



Hereby, Teltonika declare under our sole responsibility that the above described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).



E-Mark and e-Mark are the European conformity marks issued by the transport sector, indicating that the products comply with relevant laws and regulations or directives. Vehicles and related products need to go through the E-Mark certification process to be legally sold in Europe.



REACH addresses the production and use of chemical substances, and their potential impacts on both human health and the environment. Its 849 pages took seven years to pass, and it has been described as the most complex legislation in the Union's history and the most important in 20 years. It is the strictest law to date regulating chemical substances and will affect industries throughout the world.



SIRIM QAS International Sdn. Bhd. is Malaysia's leading testing, inspection and certification body.



This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.



UK Conformity Assessed (UKCA) marking is a conformity mark that indicates conformity with the applicable requirements for above described products sold within Great Britain.



The Declaration EAC and the Certificate EAC in conformity with the technical regulation TR CU of the EurAsEC Customs Union are EAC certification documents issued by independent organizations. Such organizations perform their function through laboratories accredited to the public agencies in charge of the supervision of metrology and standardization in the three countries of the EAC Custom Union, joining at the moment the certification system : Russia, Belarus, Kazakhstan, Armenia and Kyrgyzstan.



The RoHS1 is a directive regulating the manufacture, import and distribution of Electronics and Electrical Equipment (EEE) within the EU, which bans from use 10 different hazardous materials (to date).



The Independent Communications Authority of South Africa (ICASA) is the official regulator of the South African communications, broadcasting and postal services sectors.



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by UAB Teltonika Telematics is under license. Other trademarks and trade names are those of their respective owners.

## DECLARATION OF DEVICE OPERATION TEMPERATURE

An operating temperature is the temperature at which an electrical or mechanical device operates. The device will operate effectively within a specified temperature range which varies based on the device function and application context, and ranges from the minimum operating temperature to the maximum operating temperature (or peak operating temperature). Outside this range of safe operating temperatures the device may fail.

## DECLARATION OF IMEI ASSIGNMENT

The IMEI number is used by a GSM network to identify valid devices and therefore can be used for stopping a stolen phone from accessing that network. For example, if a mobile phone is stolen, the owner can call their network provider and instruct them to blacklist the phone using its IMEI number. This renders the phone useless on that network and sometimes other networks too, whether or not the phone's subscriber identity module (SIM) is changed.

## CHECK ALL CERTIFICATES

All newest certificates may be found in our [Wiki](#)<sup>2</sup>.

<sup>2</sup>[wiki.teltonika-gps.com/view/FMB122\\_Certification\\_%26\\_Approvals](http://wiki.teltonika-gps.com/view/FMB122_Certification_%26_Approvals)

# WARRANTY

We guarantee our products 24-month warranty<sup>1</sup> period.

All batteries carry a 6-month warranty period.

Post-warranty repair service for products is not provided.

If a product stops operating 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
- Replaced with a different product fulfilling the same functionality in case of EOL for the original product

<sup>1</sup> Additional agreement for an extended warranty period can be agreed upon separately.

# WARRANTY DISCLAIMER

- Customers are only allowed to return products as a result of the product being defective, due to order assembly or manufacturing fault.
- Products are intended to be used by personnel with training and experience.
- Warranty does not cover defects or malfunctions caused by accidents, misuse, abuse, catastrophes, improper maintenance or inadequate installation – not following operating instructions (including failure to heed warnings) or use with equipment with which it is not intended to be used.
- Warranty does not apply to any consequential damages.
- Warranty is not applicable for supplementary product equipment (i. e. PSU, power cables, antennas) unless the accessory is defective on arrival.
- [More information on what is RMA<sup>1</sup>](#)

<sup>1</sup> [wiki.teltonika-gps.com/view/RMA\\_guidelines](http://wiki.teltonika-gps.com/view/RMA_guidelines)