Manuals+ — User Manuals Simplified.

TELTONIKA 130FMM Advanced Configuration Inputs Flexible with Terminal

TELTONIKA 130FMM Advanced Configuration Inputs Flexible with Terminal User Manual

Contents

TELTONIKA

TELTONIKA 130FMM Advanced Configuration Inputs Flexible with Terminal

KNOW YOUR DEVICE

TOP VIEW

2X6
SOCKET
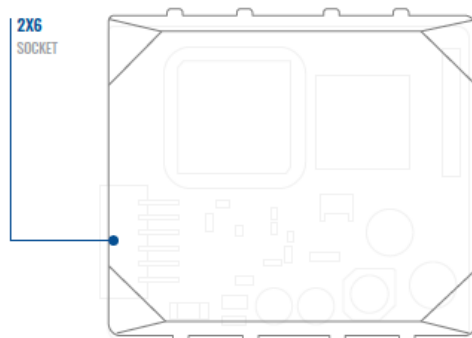
BOTTOM VIEW (WITHOUT COVER)

NAVIGATE
LED

MICRO
USB

STATUS
LED

MICRO SIM
SLOT
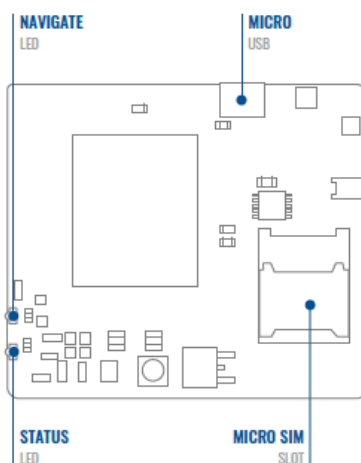
TOP VIEW (WITHOUT COVER)

BATTERY
SOCKET
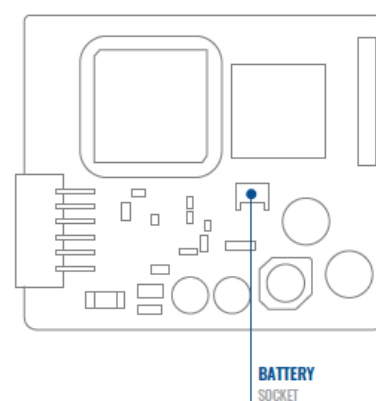
PINOUT

| PIN NUMBER	PIN NAME	DESCRIPTION
1	VCC (10-30) V DC (+)	Power supply (+10-30 V DC).
2	DOUT 3	Digital output, channel 3. Open collector output. Max. 0,5 A DC.
3	DIN 3 / AIN 2	Analog input, channel 2. Input range: 0-30 V DC / Digital input, channel 3.
4	DIN 2-N / AIN 1	Digital input, channel 2, Negative input (ground sense), Analog input, channel 1, Input range: 0-30 VDC.
5	DIN 1	Digital input, channel 1.
6	INPUT 6	TX EXT (LVCAN – 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 2. 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 (LVCAN - RX).
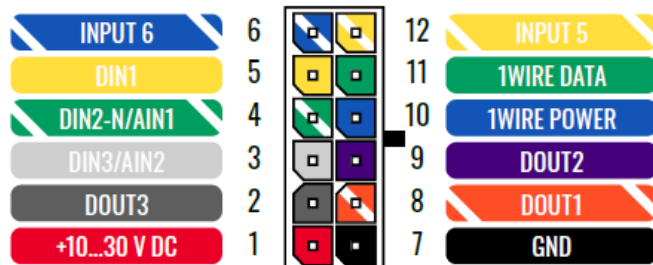
FMM130 2x6 socket pinout

WIRING SCHEME
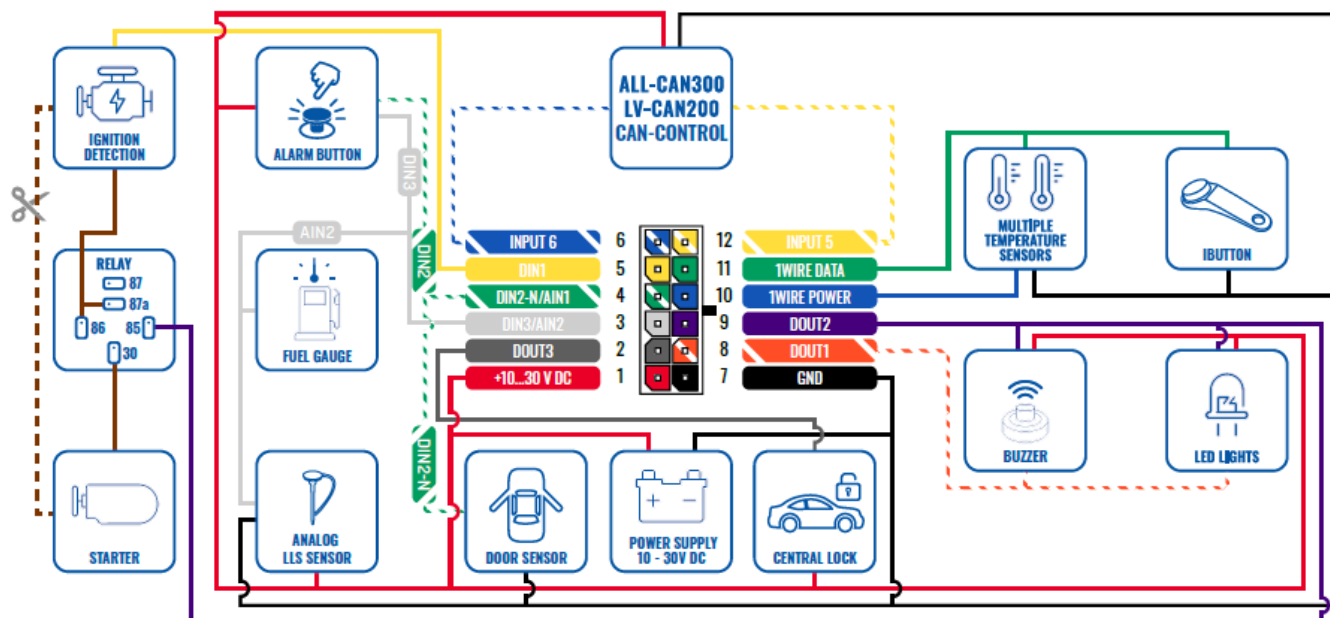
SET UP YOUR DEVICE

HOW TO INSERT MICRO-SIM CARD AND CONNECT THE BATTERY
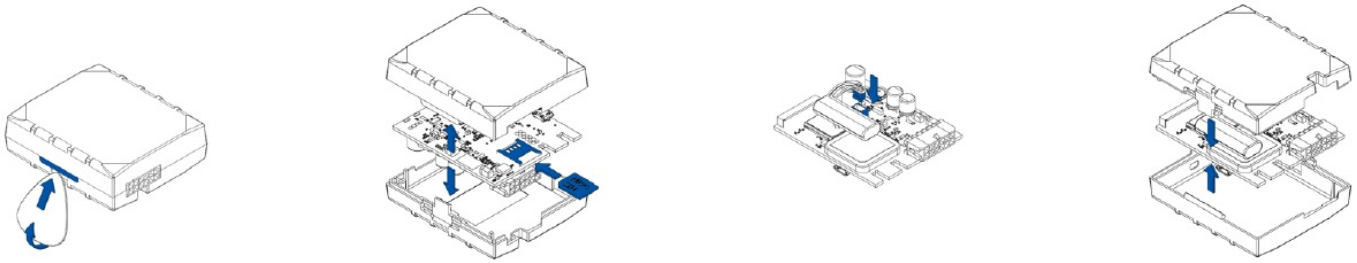
COVER REMOVAL

- Gently remove the FMM130 cover using a plastic pry tool from both sides. Then remove the top cover.

MICRO-SIM CARD INSERT

- Insert the Micro-SIM card as shown with the PIN request disabled or read our Wiki1 on how to enter it later in Teltonika Configurator2. Make sure that the Micro-SIM card cut-off corner is pointing forward to the slot.

BATTERY CONNECTION

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

ATTACHING COVER BACK

- After configuration, see "PC Connection (Windows)1", and attach the device cover back.

1. **wiki.teltonika-gps.com/view/FMM130_Security_info**
2. **wiki.teltonika-gps.com/view/Teltonika_Configurator**

PC CONNECTION (WINDOWS)

1. Power-up FMM130 with DC voltage (10 – 30 V) power supply using supplied power cable. LEDs should start blinking, see "LED indications1".
2. Connect the device to the computer using a Micro-USB cable or Bluetooth connection:
    - Using Micro-USB cable
    - You will need to install USB drivers, see "How to install USB drivers (Windows)2"
    - Using Bluetooth
    - FMM130 Bluetooth is enabled by default. Turn on Bluetooth on your PC, then select Add Bluetooth or other device > Bluetooth. Choose your device named – "FMM130_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 here1.
2. Extract and run TeltonikaCOMDriver.exe.

3. Click Next in driver installation window.

4. In the following window click the Install button.

5. Setup will continue installing the driver and eventually, the confirmation window will appear. Click Finish to complete the setup.

teltonika.lt/downloads/en/FMM130/TeltonikaCOMDriver.zip
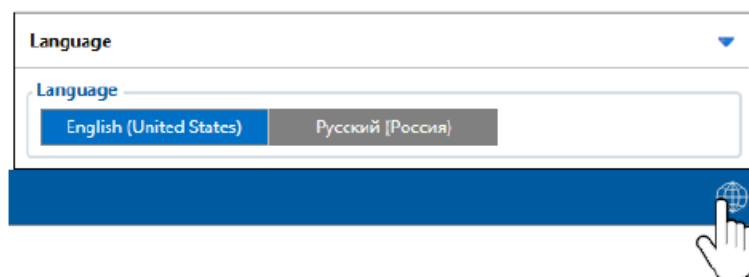
CONFIGURATION

At first FMM130 device will have default factory settings set. These settings should be changed according to the user's needs. The main configuration can be performed via Teltonika Configurator1 software. Get the latest Configurator version from here2. Configurator operates on Microsoft Windows OS and uses the prerequisite MS .NET Framework. Make sure you have the correct version installed.

1. wiki.teltonika-gps.com/view/Teltonika_Configurator

2. wiki.teltonika-gps.com/view/Teltonika_Configurator_versions

MS .NET REQUIREMENTS

Operating system	MS .NET Framework version	Version	Links
Windows Vista Windows 7 Windows 8.1 Windows 10	MS .NET Framework 4.6.2	32 and 64 bit	

- www.microsoft.com
- dotnet.microsoft.com/en-us/download/dotnet-framework/net462

- Downloaded Configurator will be in the compressed archive. Extract it and launch Configurator.exe. After launch software language can be changed by clicking ? in the right bottom corner.
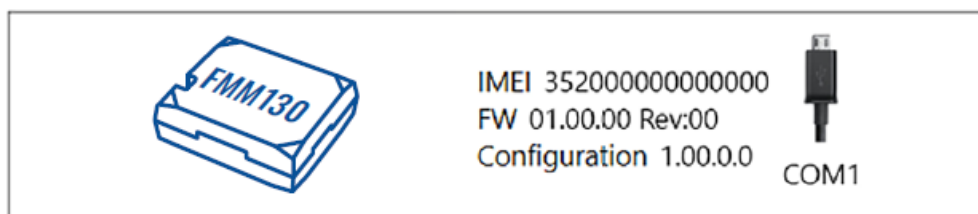
- The configuration process begins by pressing on the connected device.

- After connection to Configurator Status window will be displayed.
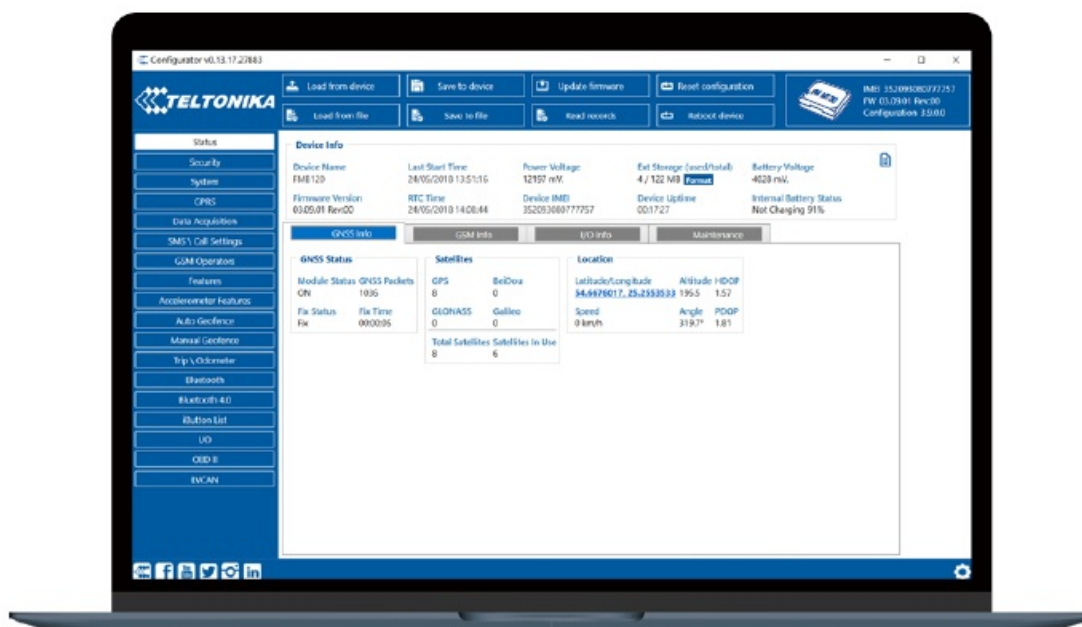
Various Status window1 tabs display information about GNSS2, GSM3, I/O4, Maintenance5, etc. FMM130 has one user-editable profile, which can be loaded and saved to the device. After any modification of configuration, the changes need to be saved to a device using the Save to Device button. Main buttons 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 the device – restart the device.

- Reset configuration – sets device configuration to default.

The most important configurator section is GPRS – where all your server and GPRS settings6 can be configured and Data Acquisition7 – where data acquiring parameters can be configured. More details about FMM130 configuration using Configurator can be found in our Wiki8.

1. **wiki.teltonika-gps.com/view/FMM130_Status_info**
2. **wiki.teltonika-gps.com/view/FMM130_Status_info#GNSS_Info**
3. **wiki.teltonika-gps.com/view/FMM130_Status_info#GSM_Info**

4. **wiki.teltonika-gps.com/view/FMM130_Status_info#I.2FO_Info**

5. **wiki.teltonika-gps.com/view/FMM130_Status_info#Maintenance**

6. **wiki.teltonika-gps.com/index.php?title=FMM130_GPRS_settings**

7. **wiki.teltonika-gps.com/index.php?title=FMM130_Data_acquisition_settings**

8. **wiki.teltonika-gps.com/index.php?title=FMM130_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:

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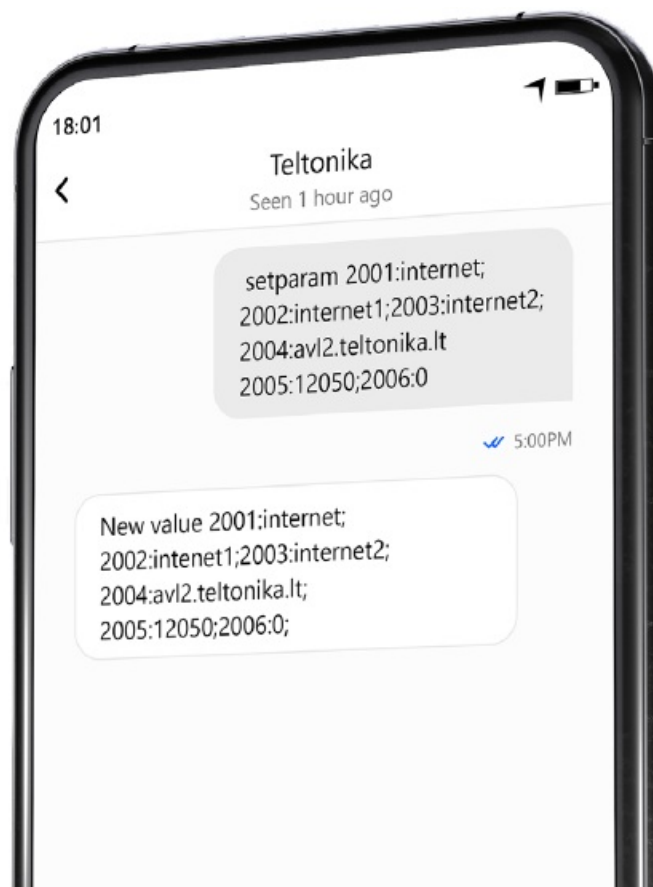
GPRS SETTINGS

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

**DEVICE MAKES A RECORD ON MOVING
IF ONE OF THESE EVENTS HAPPEN:**

PASSES
300 seconds
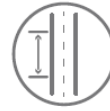
VEHICLE DRIVES
100 meters

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:**

**RECORDS SENDING TO
SERVER:**

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

After successful SMS configuration, FMM130 device will synchronize time and update records to configured server. Time intervals and default I/O elements can be changed by using Teltonika Configurator1 or SMS parameters2.

1. **wiki.teltonika-gps.com/view/Teltonika_Configurator**
2. **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	Quectel BG95-M3, Quectel BG96, Teltonika TM2500
Technology	LTE CAT M1/NB-IoT/GSM/GPRS/ GNSS/BLUETOOTH

GNSS

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

CELLUAR

Technology	LTE CAT M1/NB-IoT/GSM
2G bands	BG95: B2/B3/B5/B8 BG96: B2/B3/B5/B8

4G bands	BG95: LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
	LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM: 850/900/1800/1900
	BG96: LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B28
	LTE TDD: B39 (for CAT M1 only)
Data transfer	BG95:
	LTE: Max. 588Kbps (DL)/Max.1119Kbps (UL)
	GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
	BG96:
	LTE: Max. 375Kbps (DL)/Max.375Kbps (UL)
	GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
Transmit power	Class 4 for GSM850/900: 23±2dBm
	Class 1 for GSM1800/1900: 20±2dBm
	Class 3 for LTE-TDD: 23±2.7dBm
	Class 3 for LTE-FDD: 23±2.7dBm
Data support	SMS (text/data)

POWER

Input voltage range	10 - 30 V DC with overvoltage protection
Back-up battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)

Internal fuse	3 A, 125 V
Power consumption	At 12V < 3 mA (**Ultra Deep Sleep**[1]) At 12V < 5 mA (**Deep Sleep**[1]) At 12V < 11 mA (**Online Deep Sleep**[1]) At 12V < 18 mA (**GPS Sleep**[1]) At 12V < 34 mA (nominal with no load) At 12V < 2A Max. (with full Load / Peak)

BLUETOOTH

Specification	4.0 + LE
Supported peripherals	**Temperature and Humidity sensor**[2], **Headset**[3], **OBDII dongle**[4], , Inateck Barcode Scanner, Universal BLE sensors support

INTERFACE

Digital Inputs	3
Negative Inputs 1	1 (Digital Input 2)
Impulse Inputs	2 (Digital Input 1, Digital Input 2)
Digital Outputs	3

1. **wiki.teltonika-gps.com/view/FMM130_Sleep_modes**
2. **teltonika-gps.com/products/accessories**
3. **wiki.teltonika-gps.com/view/How_to_connect_Bluetooth_Hands_Free_adapter_to_FMB_device**
4. **wiki.teltonika-gps.com/view/How_to_connect_OBD_II_Bluetooth_Dongle_to_FMB_device**

Analog Inputs	2
CAN Adapter inputs	1
1-Wire	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM or eSIM
Memory	128MB internal flash memory

PHYSICAL SPECIFICATION

- **Dimensions:** 65 x 56 x 20,6 mm (L x W x H)
- **Weight:** 55 g

OPERATING ENVIRONMENT

Operating temperature (without battery)	-20 °C to +85 °C
Storage temperature (without battery)	-20 °C to +85 °C
Operating temperature (with battery)	-20 °C to +40 °C
Storage temperature (with battery)	-20 °C to +45 °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, GNSS Fuel Counter, DOUT Control Via Call**, Excessive Idling detection, **Immobilizer, iButton Read Notification**, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip, Ground Sense[5]
Sleep modes	**GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep**[6]
Configuration and firmware update	**FOTA Web**[7], FOTA, **Teltonika Configurator**[8] (USB, Bluetooth), FMBT mobile application (Configuration)

- wiki.teltonika-gps.com/view/FMM130_Features_settings
- wiki.teltonika-gps.com/view/FMM130_Sleep_modes
- wiki.teltonika-gps.com/view/FOTA_WEB
- wiki.teltonika-gps.com/view/Teltonika_Configurator

SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	LLS (Analog), **LV-CAN200**[9], **ALL-CAN300**[10], **OBDII dongle**[11], **CAN-CONTROL**[12]
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC DESCRIPTION	VALUE			
	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE				
Supply Voltage (Recommended Operating Conditions)	+10		+30	V

DIGITAL OUTPUT (OPEN DRAIN GRADE)

	MIN.	TYP.	MAX.	UNIT
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

DIGITAL INPUT

Input resistance (DIN1)	47			kΩ
Input resistance (DIN2)	38.45			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

ANALOG INPUT

	MIN.	TYP.	MAX.	UNIT
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
Input Voltage (Recommended Operating Conditions), Range 2	0		+30	V

CHARACTERISTIC DESCRIPTION	VALUE			
	MIN.	TYP.	MAX.	UNIT
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

	MIN.	TYP.	MAX.	UNIT
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

NEGATIVE INPUT

	MIN.	TYP.	MAX.	UNIT
Input resistance	38.45			kΩ
Input voltage (Recommended Operating Conditions)	0		Supply voltage	V
Input voltage threshold		0.5		V
Sink current			180	nA

SAFETY INFORMATION

This message contains information on how to operate FMM130 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 2×6 connector wires to the vehicle, the appropriate jumpers of the vehicle power supply should be disconnected.
- Before unmounting the device from the vehicle, the 2×6 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 FMM130 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 Wiki1.

1. **wiki.teltonika-gps.com/index.php?title=FMB920**

- 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).

- 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).

- 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.

- 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.

- 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.

- The Australian Standard AS/NZS 4417.1 and AS/NZS 4417.2 Marking of electrical products to indicate compliance with regulations – General rules for use of the mark provides general requirements for the use of the RCM including location of the marking on the equipment and its dimensional requirements.

- For more information, see the ANATEL website **www.anatel.gov.br** This equipment is not entitled to protection against harmful interference and must not cause interference in duly authorized systems.

- CITC mandates that network-based devices must support 4G/LTE technology as a prerequisite for approval of such equipment in Saudi Arabia. Hence, 2G and 3G only devices can no longer be approved and certified in the Kingdom.

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 Wiki2.

- wiki.teltonika-gps.com/view/FMM130_Certification_%26_Approvals

WARRANTY

We guarantee our products 24-month warranty1 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

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 RMA1

wiki.teltonika-gps.com/view/RMA_guidelines

Documents / Resources

FMM130 Advanced CAT M1/GSM/GNSS/BLE terminal with flexible inputs configuration Quick Manual v2.4	[**TELTONIKA 130FMM Advanced Configuration Inputs Flexible with Terminal**](#) [pdf] User Manual 130FMM Advanced Configuration Inputs Flexible with Terminal, 130FMM, Advanced Configuration Inputs Flexible with Terminal, Configuration Inputs Flexible with Terminal, Flexible with Terminal, Terminal

References

- [**Download .NET Framework 4.6.2 | Free official downloads**](#)
- [**FMB920 - Wiki Knowledge Base | Teltonika GPS**](#)

- ⚔ [FMM130 - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [FMM130 Configuration - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [FMM130 GPRS settings - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [FMM130 Certification & Approvals - Wiki Knowledge Base | Teltonika GPS](#)
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- ⚔ [FOTA WEB - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [RMA guidelines - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [Teltonika Configurator - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [Teltonika Configurator versions - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [Template:FMB Device Family Parameter list - Wiki Knowledge Base | Teltonika GPS](#)
- ⚔ [Expand The Usage Of GPS Trackers With Handy Our Accessories](#)
- ⚔ [LV-CAN200 - CAN Adapter For Reading CAN Bus Data](#)
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