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› [Teltonika](#) /

› [Teltonika FMB130 User Manual](#)

Teltonika FMB130

Teltonika FMB130 User Manual

Model: FMB130 | Brand: Teltonika

PRODUCT OVERVIEW

The Teltonika FMB130 is an advanced GNSS/GSM/BLE terminal designed for various tracking and telematics applications. It features flexible inputs and outputs, allowing for a wide range of functionalities including ignition detection, door sensor monitoring, fuel gauge integration, and more. This device is compatible with smartphones for configuration and data access.

Key features include:

- Teltonika FMB130
- Product Type: LOCATION TRACKER
- Brand: Teltonika
- Wireless Technology: Bluetooth
- Connectivity: Bluetooth
- Supported Application: GPS
- Includes internal battery



Image: Top view of the Teltonika FMB130 device, highlighting the terminal connections and product branding. This view provides a clear look at the input/output pins and device specifications printed on the casing.

SETUP AND INSTALLATION

Before installation, ensure the device is powered off. The FMB130 operates on a 10-30V DC power supply. Proper wiring is crucial for optimal performance and to prevent damage.

Wiring Diagram

Refer to the wiring scheme below for connecting the FMB130 to your vehicle or system. Pay close attention to power, ground, and input/output connections.

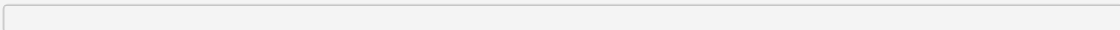


Image: Comprehensive wiring diagram for the Teltonika FMB130. This diagram illustrates how to connect various components such as ignition, alarm, fuel gauge, door sensors, and central lock to the device's inputs and outputs, along with power supply connections.

Terminal Pinout

The FMB130 features a 2x6 socket for various connections. The pinout is as follows:

Pin No.	Description
1	+10...30V DC (Power Input)
2	DOUT3 (Digital Output 3)

Pin No.	Description
3	DIN3/AIN2 (Digital Input 3 / Analog Input 2)
4	DIN2-N/AIN1 (Digital Input 2 / Analog Input 1)
5	DIN1 (Digital Input 1)
6	INPUT 6 (Digital Input 6)
7	GND (Ground)
8	DOUT1 (Digital Output 1)
9	DOUT2 (Digital Output 2)
10	1WIRE POWER (1-Wire Bus Power)
11	1WIRE DATA (1-Wire Bus Data)
12	INPUT 5 (Digital Input 5)



Image: Angled view of the Teltonika FMB130, clearly displaying the pinout labels on the device's casing. This image is helpful for identifying the correct connections for installation.

Initial Configuration

The FMB130 can be configured via PC using a USB cable or wirelessly via a mobile application using Bluetooth.

Ensure the device has power before attempting configuration.

- **PC Configuration:** Connect the device to a computer using a USB cable. Use Teltonika's configuration software to set up parameters such as APN settings, server address, and input/output behavior.
- **App Configuration:** Download the official Teltonika app on your smartphone. Enable Bluetooth on your phone and pair with the FMB130 to configure settings remotely.

OPERATING THE FMB130

Once installed and configured, the Teltonika FMB130 operates as a location tracker and data logger. It utilizes GNSS for precise positioning and GSM for data transmission to a server.

Functionality Overview

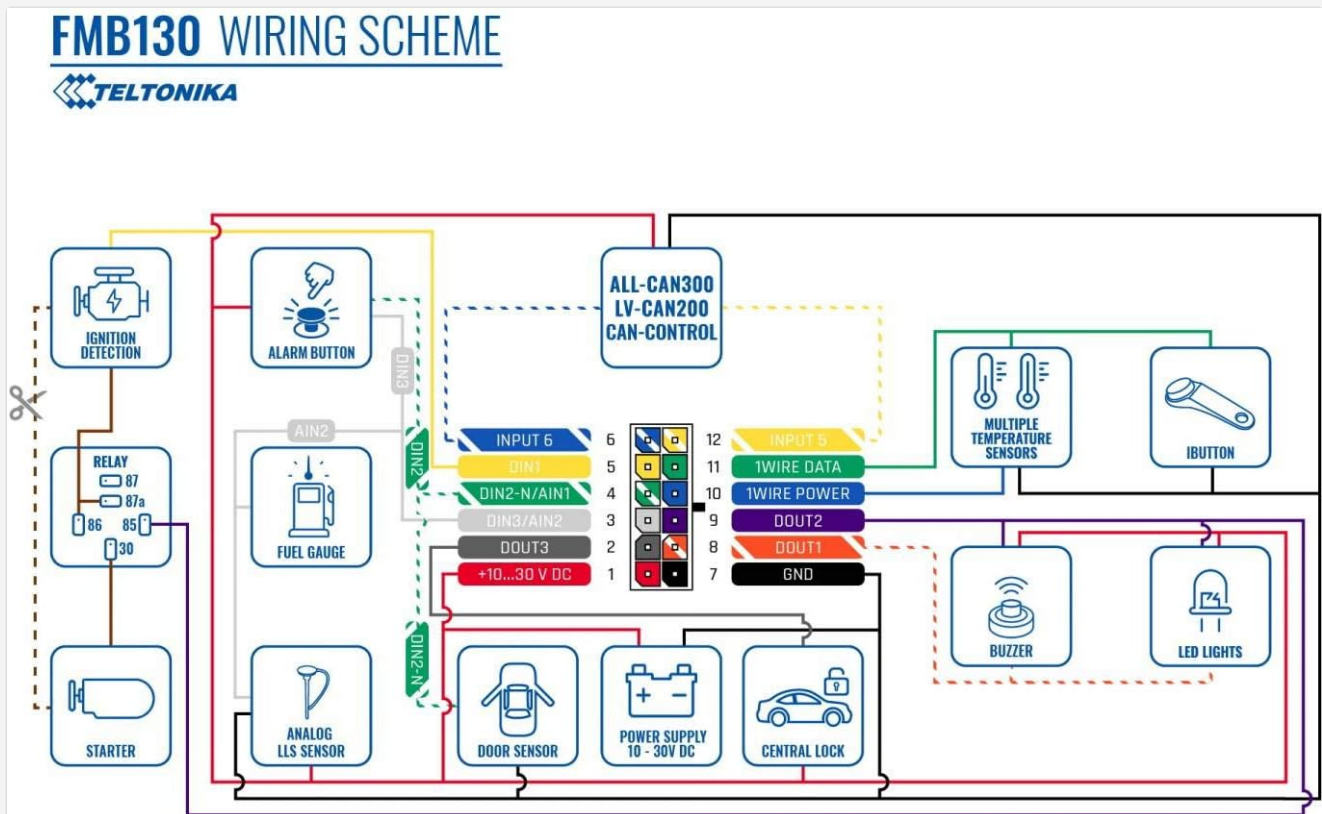


Image: Functional block diagram of the Teltonika FMB130. This diagram illustrates the various internal components and external connections, including GNSS antenna, GSM antenna, internal memory, battery, USB, Bluetooth, and various inputs/outputs for sensors and controls.

- **GPS Tracking:** The device continuously acquires GPS data to determine its location, speed, and direction. This data is then transmitted to a designated server.
- **Digital Inputs:** Monitor events such as ignition status, door open/close, or alarm triggers using the digital inputs (DIN1, DIN2-N/AIN1, DIN3/AIN2, INPUT 5, INPUT 6).
- **Analog Inputs:** Connect analog sensors like fuel gauges or temperature sensors to AIN1 and AIN2 to monitor their values.
- **Digital Outputs:** Control external devices such as relays, buzzers, or LED lights using the digital outputs (DOUT1, DOUT2, DOUT3).
- **1-Wire Interface:** Connect 1-Wire devices like iButton readers or multiple temperature sensors for identification and environmental monitoring.
- **CAN-Control:** The device supports ALL-CAN300 and LV-CAN200 for advanced vehicle data acquisition.
- **Bluetooth Connectivity:** Use Bluetooth for hands-free communication, connecting external sensors, or configuring the device via a smartphone app.

Status Indicators

The FMB130 typically includes LED indicators for status updates (e.g., GPS fix, GSM network connection, data transmission). Refer to the device's specific LED behavior guide for detailed interpretation.

MAINTENANCE

The Teltonika FMB130 is designed for low maintenance. However, regular checks can ensure its longevity and reliable operation.

- **Firmware Updates:** Periodically check the Teltonika website for firmware updates. Keeping the firmware up-to-date ensures optimal performance, security, and access to new features.
- **Physical Inspection:** Occasionally inspect the device and its wiring for any signs of damage, corrosion, or loose connections. Ensure it is securely mounted.
- **Cleaning:** If necessary, gently clean the device with a dry, soft cloth. Avoid using harsh chemicals or abrasive materials.
- **Battery Health:** The device includes an internal battery. While designed for long life, extreme temperatures can affect battery performance over time.

TROUBLESHOOTING

If you encounter issues with your Teltonika FMB130, consider the following common troubleshooting steps:

- **No Power:**
 - Check the power supply voltage (10-30V DC) and ensure connections to Pin 1 (+10...30V DC) and Pin 7 (GND) are secure and correct.
 - Verify the power source is active.
- **No GPS Signal:**
 - Ensure the device has a clear view of the sky. Obstructions like metal roofs or dense foliage can block GPS signals.
 - Check the internal GNSS antenna connection (if applicable) or external antenna if used.
- **No GSM/Data Transmission:**
 - Verify that the SIM card is correctly inserted and active with a data plan.
 - Check APN settings in the device configuration.
 - Ensure there is GSM network coverage in the device's location.
 - Confirm the server address and port settings are correct.
- **Incorrect Input/Output Readings:**
 - Double-check the wiring for the specific input/output.
 - Verify the sensor or actuator connected to the I/O is functioning correctly.
 - Review the configuration settings for the respective input/output in the device software.
- **Bluetooth Connectivity Issues:**
 - Ensure Bluetooth is enabled on both the FMB130 and your smartphone/PC.
 - Make sure the device is within Bluetooth range.
 - Try restarting both the FMB130 and the connecting device.

For more complex issues, refer to the detailed technical documentation available on the Teltonika website or contact Teltonika support.

TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	Teltonika
Model Number	FMB130
Wireless Technology Type	Bluetooth
Connector Type	Bluetooth
Device Compatibility	Smartphone
Dimensions (L x W x H)	50 x 50 x 28 millimeters
Special Feature	Bluetooth
Connectivity Technology	Bluetooth
Supported Application	GPS
Included Components	Battery
First Available Date	July 2, 2019

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Teltonika website or contact their customer service directly. Ensure you have your product model number (FMB130) and any purchase details ready when seeking support.

Teltonika provides resources including:

- Detailed technical documentation and manuals.
- Firmware updates and configuration tools.
- Online support portals and contact information.

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For more information, visit www.teltonika.lt