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Teltonika FMB920

Teltonika FMB920 User Manual

Compact and Smart Tracker with Bluetooth Connectivity

INTRODUCTION

The Teltonika FMB920 is a compact and smart tracker designed for various applications, including vehicle tracking, fleet management, and general location monitoring. It features integrated GNSS/GSM/Bluetooth connectivity, allowing for real-time tracking and data transmission. This manual provides essential information for the proper setup, operation, and maintenance of your FMB920 device.

WHAT'S IN THE BOX

- Teltonika FMB920 Device
- SIM card (may be pre-installed or included separately)
- Internal Li-ion Battery
- Mounting Bracket



Figure 1: Teltonika FMB920 device alongside its retail packaging, showing the compact size of the tracker and the information printed on the box.

SETUP AND INSTALLATION

1. SIM Card Insertion

Before powering on the device, ensure a valid SIM card with an active data plan is inserted. The SIM card slot is typically located under the device cover. Carefully open the cover, insert the SIM card into the designated slot, and close the cover securely.

2. Power Connection

The FMB920 operates on a 6-30V DC power supply. Connect the device to your vehicle's power source according to the wiring diagram. Ensure correct polarity to prevent damage to the device.

Red Wire: +6...30V DC (Positive Power Input)

Black Wire: GND (Ground)

Yellow Wire: DIN1 (Digital Input 1)

Grey Wire: AIN1 (Analog Input 1)

White Wire: DOUT1 (Digital Output 1)



Figure 2: Top view of the Teltonika FMB920 showing the wiring harness with color-coded wires and their respective functions (Red for Power, Black for Ground, Yellow for Digital Input, Grey for Analog Input, White for Digital Output).



Figure 3: Angled view of the Teltonika FMB920, providing a clearer perspective of the device's compact design and the attached wiring harness.



Figure 4: Overhead view of the Teltonika FMB920, highlighting the device's main body and the connection points for the power and I/O wires.

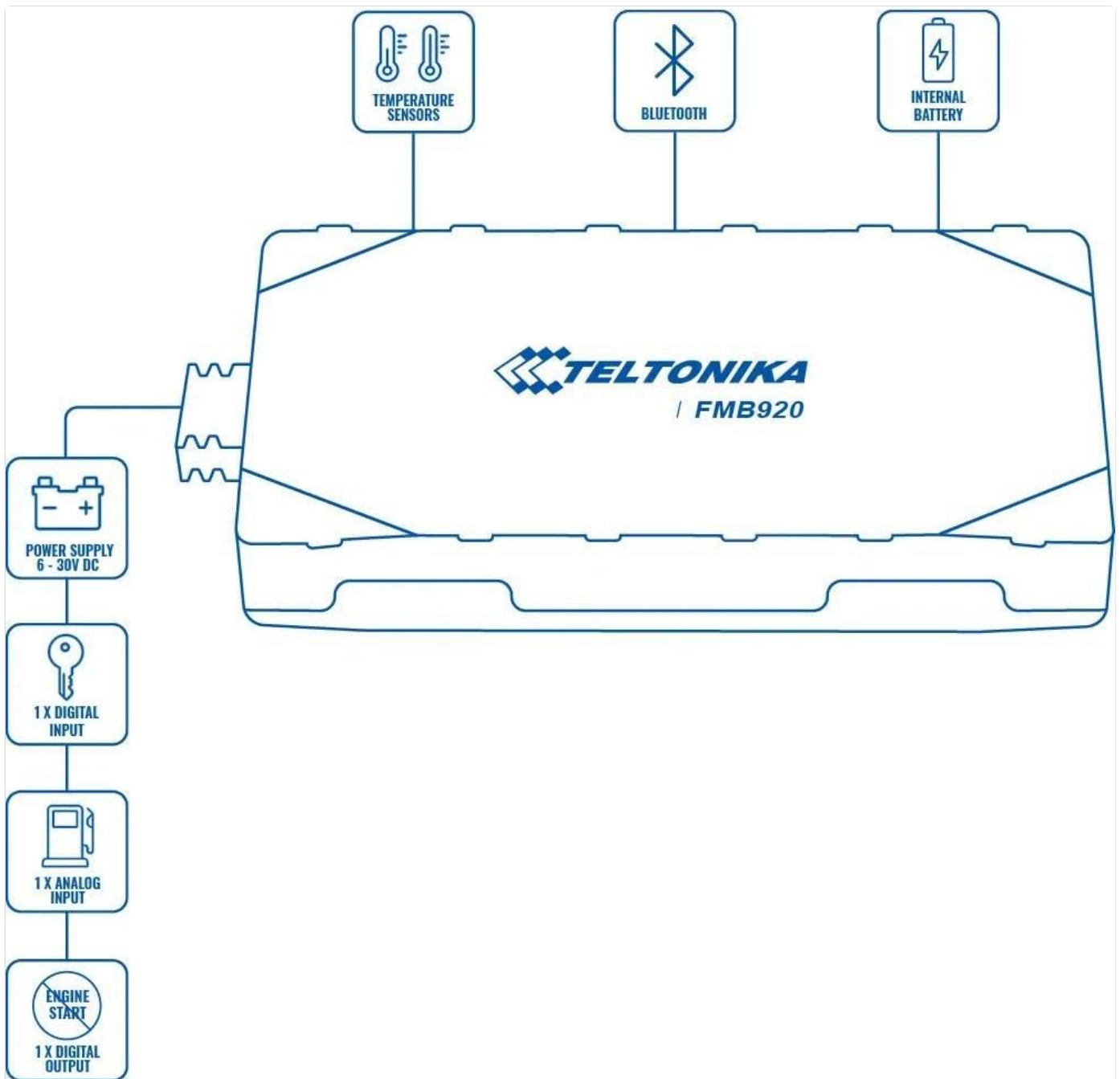


Figure 5: Schematic diagram illustrating the various inputs and outputs of the Teltonika FMB920, including power supply, digital input, analog input, digital output, temperature sensors, Bluetooth, and internal battery.

3. Initial Configuration

The FMB920 requires configuration using Teltonika's dedicated software. This software allows you to set up tracking parameters, define geofences, configure inputs/outputs, and manage other device functionalities. Refer to the official Teltonika website for software downloads and detailed configuration guides.

OPERATING THE DEVICE

Status Indicators (LEDs)

The FMB920 features status LEDs to indicate its operational state. While specific LED patterns and colors may vary based on firmware, generally:

- **Navigate LED:** Indicates GNSS (GPS) signal status. A solid light typically means a successful GPS fix.
- **Status LED:** Indicates GSM/network connectivity and device operational status. Blinking patterns often signify network registration, data transmission, or errors.

Consult the detailed Teltonika FMB920 user manual available on the manufacturer's website for a comprehensive explanation of LED indications.

Tracking and Data Transmission

Once configured and powered, the FMB920 will begin acquiring GNSS data and transmitting it via the GSM network to a designated server. The frequency and conditions for data transmission are set during the configuration process.

Bluetooth Connectivity

The device supports Bluetooth for various purposes, including configuration, connecting external sensors (e.g., temperature sensors), and hands-free communication. Bluetooth functionality is enabled and managed through the device's configuration software.

MAINTENANCE

Battery Care

The FMB920 includes an internal Li-ion battery (3.7V, 170mAh) for backup power. To prolong battery life, avoid exposing the device to extreme temperatures. If the device is stored for extended periods, ensure the battery is partially charged.

Cleaning

Clean the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners, as these can damage the casing or internal components.

Firmware Updates

Periodically check the Teltonika website for firmware updates. Keeping the device's firmware up-to-date ensures optimal performance, security, and access to new features. Firmware updates are typically performed using the configuration software.

TROUBLESHOOTING

If you encounter issues with your Teltonika FMB920, consider the following common troubleshooting steps:

- **No Power:** Verify that the power connection is secure and that the voltage is within the 6-30V DC range. Check fuses in the vehicle's power circuit if applicable.
- **No GPS Signal:** Ensure the device has a clear view of the sky. Obstructions like metal roofs or dense urban environments can interfere with GPS reception.
- **No Network Connectivity:** Check if the SIM card is properly inserted and active. Verify that the SIM card has a data plan and sufficient credit. Ensure the device is in an area with GSM network coverage.
- **Incorrect Data Reporting:** Review your device's configuration settings using the Teltonika configurator software. Ensure APN settings, server addresses, and reporting parameters are correct.

For more complex issues or persistent problems, refer to the official Teltonika support resources or contact their technical support team.

SPECIFICATIONS

| Feature | Detail |
|-------------------------|-------------------------------|
| Model Number | FMB920 |
| Connectivity Technology | Wireless (GSM/GNSS/Bluetooth) |
| Power Supply | 6-30V DC |

| | |
|-----------------------|---|
| Internal Battery | 3.7V, 170mAh Li-ion |
| Special Feature | Wireless |
| Supported Application | Wireless tracking apps, compatible with smartphones |
| Specific Uses | General location tracking |
| Package Dimensions | 15.2 x 15.2 x 4.2 cm |
| Weight | 120 g |
| Manufacturer | Teltonika |
| Date First Available | 2 Dec. 2016 |

WARRANTY AND SUPPORT

Warranty Information

For detailed warranty terms and conditions, please refer to the official Teltonika website or the warranty card included with your product. Warranty coverage typically addresses manufacturing defects and material faults under normal use.

Technical Support

Should you require technical assistance or have questions regarding your Teltonika FMB920, please contact Teltonika's support team using the following information:

Headquarters: Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania

Telephone: +370 5 212 74 72

Fax: +370 5 276 13 80

Email: info@teltonika.lt

Website: www.teltonika.eu

When contacting support, please have your device's model number (FMB920) and any relevant serial numbers ready.