

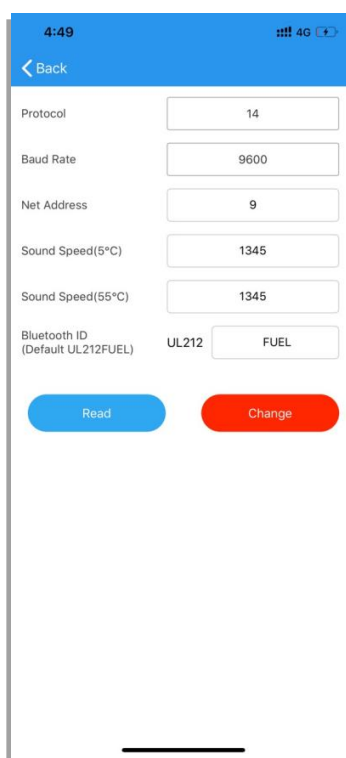
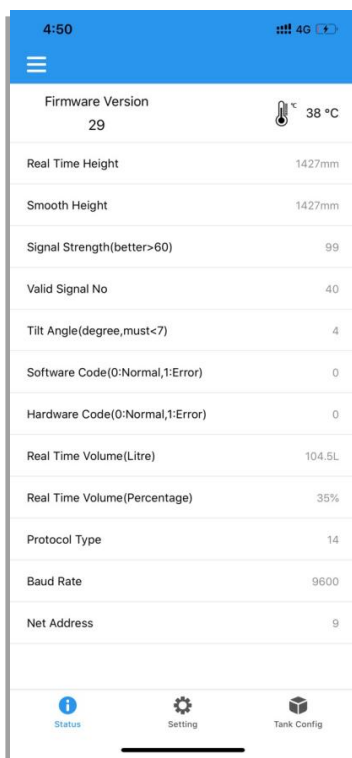
# User Manual

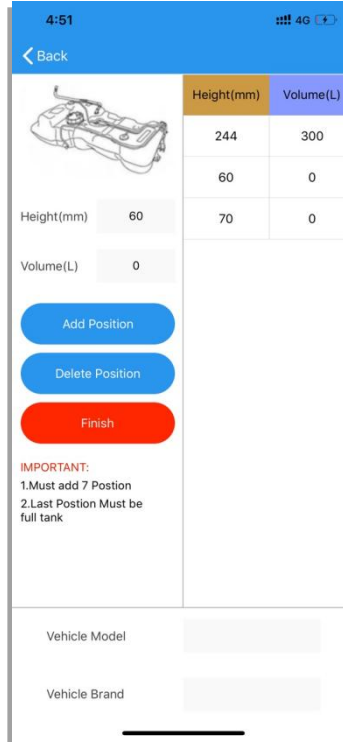
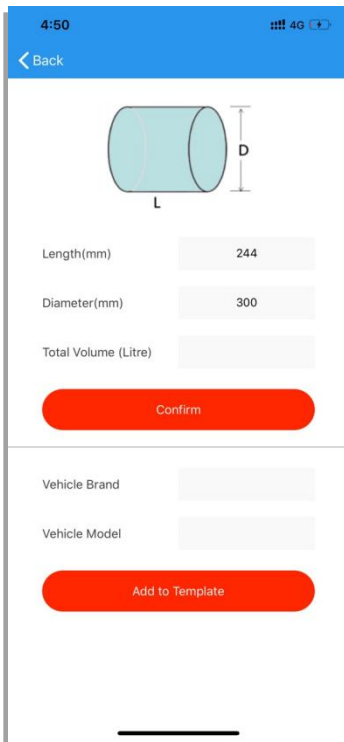
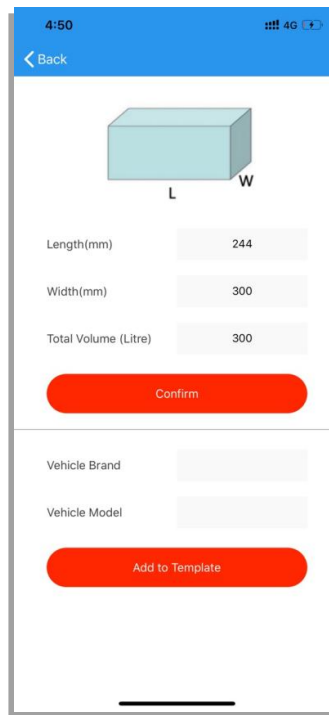
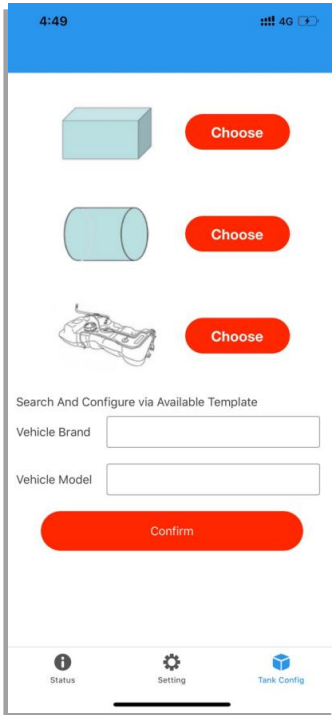
## How to Connect Teltonika FMC125 RS485 to BLE100 protocol 16 L

1. Download the mobile APP named “FuelGuard” in Google play(android phone) or iOS store(iPhone). The APP logo like below:



2. Mobile APP via BLE connection





3. BLE100 must be RS485 , setting: protocol 16, baud rate 19200, address bit 1

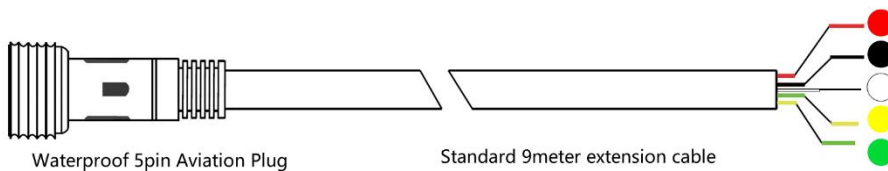
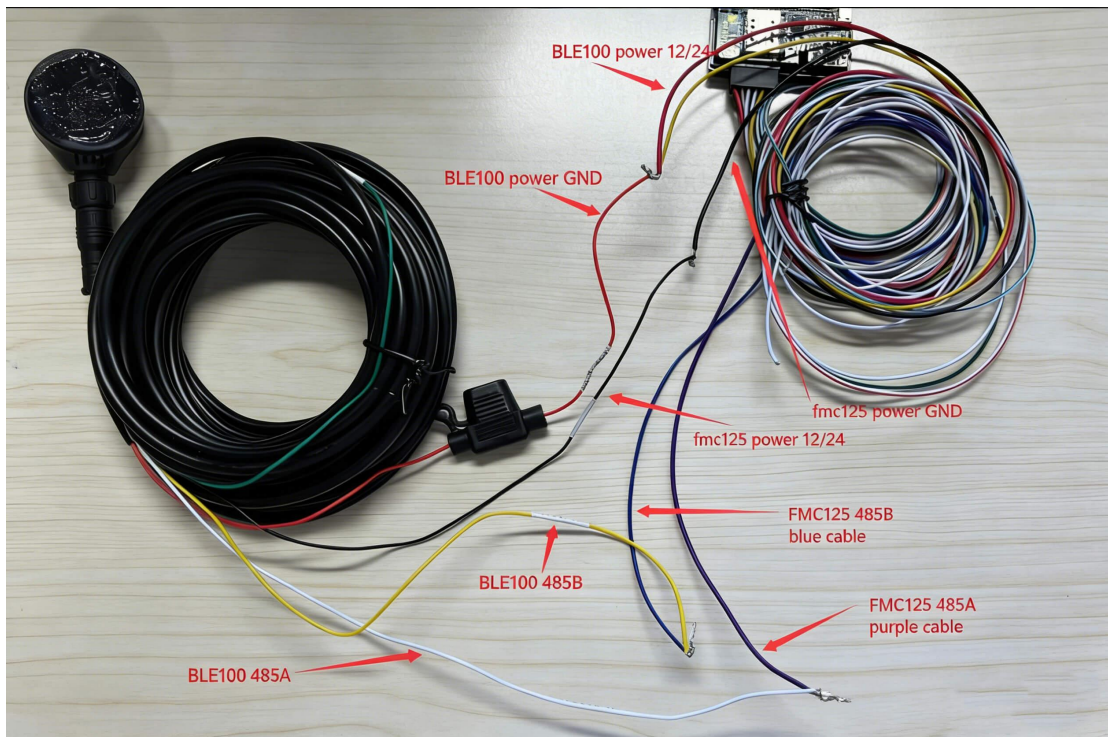
Firmware Version 91	 °C 31.0°C
Real Time Height(mm)	48.8mm
Smooth Height(mm)	93.7mm
Signal Strength(better>60)	11
Valid Signal No.	38
Tilt Angle(degree, must<11)	3.0
Software Code(0:Normal)	0
Hardware Code(0:Normal)	0
Real Time Volume(Litre)	0.0
Real Time Volume(Percentage)	0.0%
Protocol Type	16
Baud Rate	19200
Net Address	1

**Notes:**

- 1) Please approved the Bluetooth Connection,GPS etc when APP connecting;
- 2) Please confirm the APP version is the latest Firmware 91, if download other Firmware 2 etc maybe cause incorrect data;

- 3) When read the data wrong or not stable, try to quit the APP and open again;
- 4) APP Temperature number is the sensor's temp not the oil temp;
- 5) Follow the user manual to operate step by step;
- 6) If fail to download the APP or connection, contact us for more tech support
- 7) If need to reset the protocol or sound speed, the password is 52381.

#### 4. The wiring connection



Cable	Definition	Remarks
<b>Red</b>	Power Supply 9~72V DC+	
<b>Black</b>	Power GND, RS232/RS485 GND	
<b>Yellow</b>	RS232 TX (Default), or RS485B	Connect GPS/DVR RS232_RX, Or RS485B
<b>White</b>	RS232 RX (Default), or RS485 <sub>4</sub>	Connect GPS/DVR RS232_TX, Or RS485B
<b>Green</b>	Analog Output 0~5V	

## 5. Teltonika FMC125 setting

The screenshot shows the Teltonika FMC125 configuration interface. The left sidebar has a menu with 'RS232 \ RS485' selected (1). The main area is divided into 'External UART Mode' and 'RS485 Mode' sections.

- External UART Mode:** 'RS485' is selected (2).
- RS485 Mode:**
  - Log Mode:** 'LLS' is selected (3).
  - RS485 Baudrate:** '19200' is selected (4).
  - RS485 Parity:** 'None' is selected (5).
  - RS485 LLS Sensors:** 'LLS 1 Address' is set to '1' (6).


Red annotations include: '2' pointing to the RS485 selection, '3' pointing to the LLS selection, '4' pointing to the 19200 baud rate, '5' pointing to the None parity, and '6' pointing to the LLS 1 address. A red text note on the right states: 'RS485, LLS protocol (16 protocol), baud rate 19200, address bit 1'.

The screenshot shows the Teltonika FMC125 configuration interface with 'System' selected in the sidebar (1). The main area displays various system settings:

- System Settings:**
  - Movement Source:** 'Accelerometer' is selected.
  - Speed source:** 'GNSS' is selected.
  - Records Saving/Sending Without TS:** 'After Position Fix' is set to 'Always'.
  - LED Indication:** 'Enable' is selected.
  - GNSS Source:** 'GLONASS' is selected.
  - Battery Charge Mode:** 'On Need' is selected.
  - Analog Input Value Range:** 'Range 30V' is selected.
  - Data Protocol:** 'Codec 8 Extended' is selected (2).
- Static Navigation Settings:** 'Static Navigation' is set to 'Enable'.
- Sleep Mode:** 'Sleep Settings' are configured with 'Deep Sleep' and 'Ultra Sleep' options.
- Ignition Settings:** 'Ignition Source' is set to 'DIN 1'.
- Accelerometer Auto Calibration:** 'Accelerometer Auto Calibration' is set to 'Continuous'.
- Time Synchronization:** 'NTP Resync (h)' is set to '3'.


The fuel level data is displayed as follows

Teltonika.Configurator 1.7.22 B.3.27 R.21



Load from device Save to device Update firmware Reset configuration

Load from file Save to file Read records Reboot device



IMEI 866907056809667  
FW 03.27.13 Rev:57  
Configuration 8.14.0.0

Status

Security

System

GPRS

Data Acquisition

SMS \ Call Settings

GSM Operators

Features

Accelerometer Features

Auto Geofence

Manual Geofence

Trip \ Odometer

Bluetooth

Bluetooth 4.0

Beacon List

Authorization ID List

I/O

OBD II

CAN Adapter

RS232 \ RS485

### Device Info

Device Name FMC125	Last Start Time 2004/1/1 8:00:15	Power Voltage 12149 mV.	Ext Storage (used/total) 1 / 122 MB <span style="color: red;">Format</span>	Battery Voltage 0 mV.
Firmware Version 03.27.13 Rev:57	RTC Time 2004/1/1 8:08:59	Device IMEI 866907056809667	Device Uptime 00:08:44	Internal Battery Status Not Charging 0%

GNSS Info
GSM Info
I/O Info
Maintenance

### I/O Data

Dallas Temperature 3 0 °C	Dallas Temperature 4 0 °C	Dallas Temperature ID 1 0x0000000000000000
Dallas Temperature ID 2 0x0000000000000000	Dallas Temperature ID 3 0x0000000000000000	Dallas Temperature ID 4 0x0000000000000000
iButton 0x0000000000000000	RFID 0x0000000000000000	LLS 1 Fuel Level 1149 kvants or l
LLS 2 Fuel Level 0 kvants or l	LLS 3 Fuel Level 0 kvants or l	LLS 4 Fuel Level 0 kvants or l
LLS 5 Fuel Level 0 kvants or l	LLS 1 Temperature 34 °C	LLS 2 Temperature 0 °C
LLS 3 Temperature 0 °C	LLS 4 Temperature 0 °C	LLS 5 Temperature 0 °C
Eco Score.....	User.ID.....	BLE Temperature #1.....