MEITRACK Fuel Sensor User Guide

Applicable Model: MVT600/T1/MVT800/T333

Change History

File Name	MEITRACK Fuel Sensor User Guide	Created By	Owen Cheng
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Contents

1 Copyright and Disclaimer

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2 Product Function and Specifications

2.1 Product Function

- To measure the fuel in a vehicle.
- Trigger an alarm when the fuel is too high or too low.

2.2 Specifications

Item	Specifications
Sensor length	Standard length: 500 mm (Customize the length based on customers' requirements)
Diameter	16 mm
Output signal	4–20 mA, 0–5 V
Power supply	DC 12 V–40 V
Ambient temperature	-40°C to 70°C
Measurement Accuracy	± 0.5 level (10 mm)
Packaging materials	Stainless steel pipe

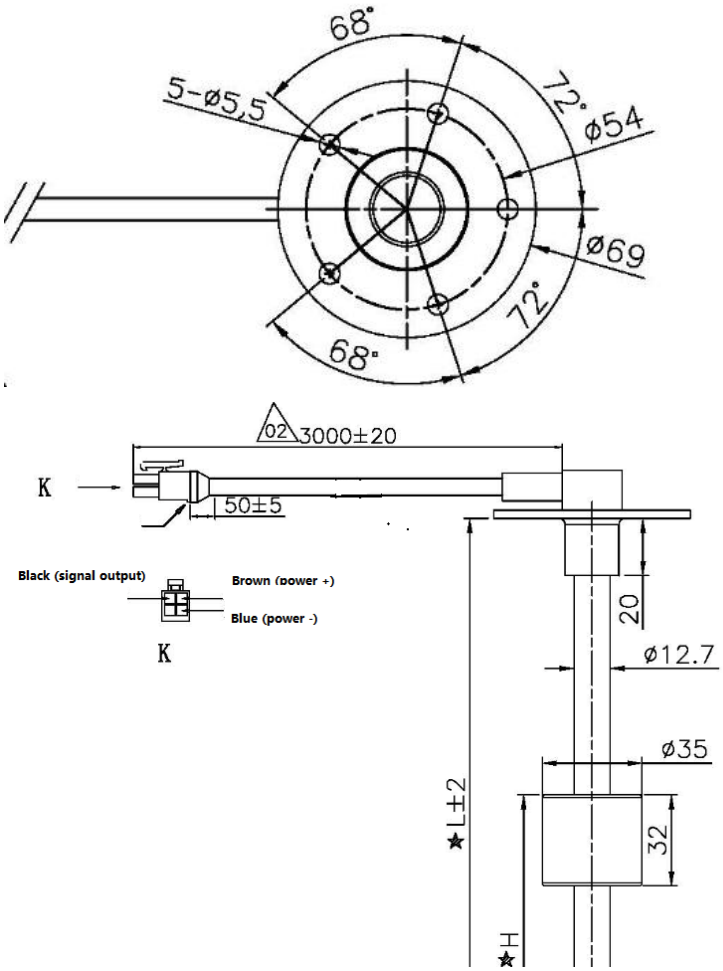
3 Main Device and Accessory

Main device: V-type fuel sensor (resistor voltage output fuel sensor A53)

Accessory: None

4 View

Resistor fuel sensor:



5 Occupied Resource

- T1: AD2 (fuel detection port)
- MVT600: AD2 (fuel detection port)
- MVT800: AD1 (fuel detection port)
- T333: AD2 (fuel detection port)

6 Installing and Configuring the Fuel Sensor

Install the fuel sensor to the vehicle based on customers' application.

6.1 Connecting a Fuel Sensor to a Non-dedicated Port (MVT600/T1/T333)

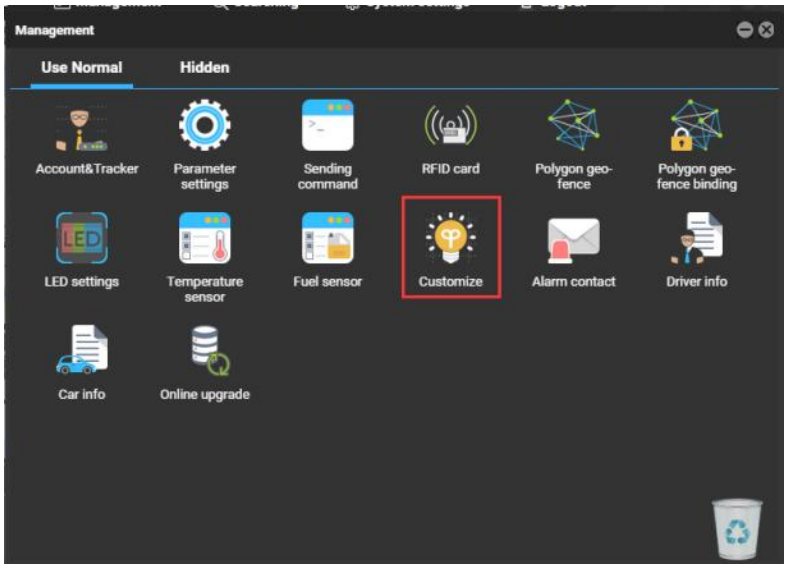
When the fuel sensor is connected to the MVT600/T1/T333 with AD1, cut the white plug on the end of the fuel sensor and match up these 3 cables as follows:

This section only uses the T1 as an example:

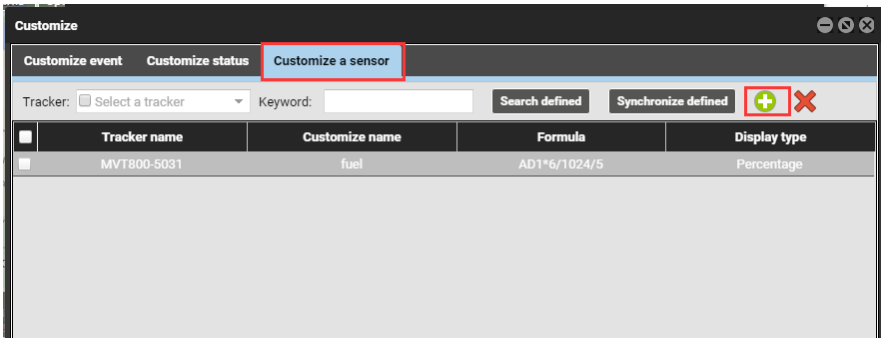
fuel sensor	to	T1
Red	→	power cable(red)
Black	→	AD cable(blue)
blue	→	GND (black)

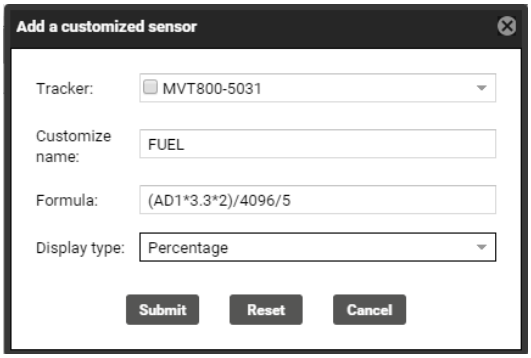
6.2 Adding a Fuel Sensor to MS03 (MVT600/T1/T333)

1. Add the MVT600/T1/T333 to the MS03 platform, and connect the fuel sensor to the tracker.
2. On the MS03 platform, choose **Management** > **Customize**.



3. On the **Customize a sensor** tab page, click  . On the **Add a customized sensor** window that is displayed, specify **Tracker**, **Customize name**, **Formula**, and **Display type**, and click **Submit**.



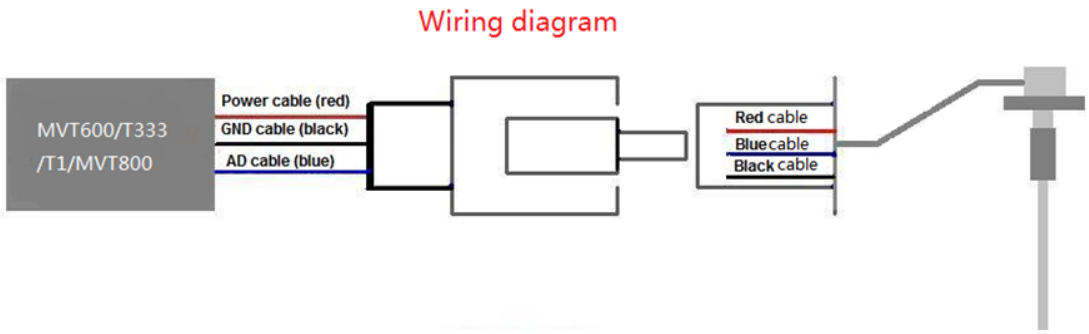


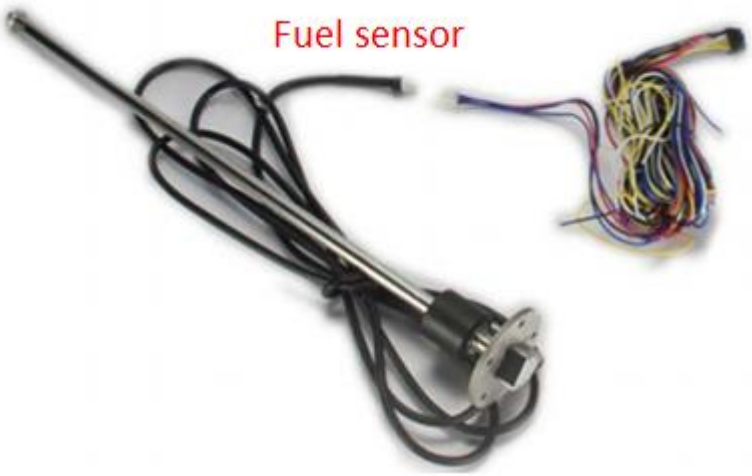
The calculation formula of the fuel sensor is as follows:

MVT600/T1/T333: (AD1 x 3.3 x 2)/4096/5

6.3 Connecting a Fuel Sensor to the Dedicated Port (MVT600/T1/MVT800/T333)

Connect the fuel sensor to the dedicated port of MVT600/T1/MVT800/T333 as follows:



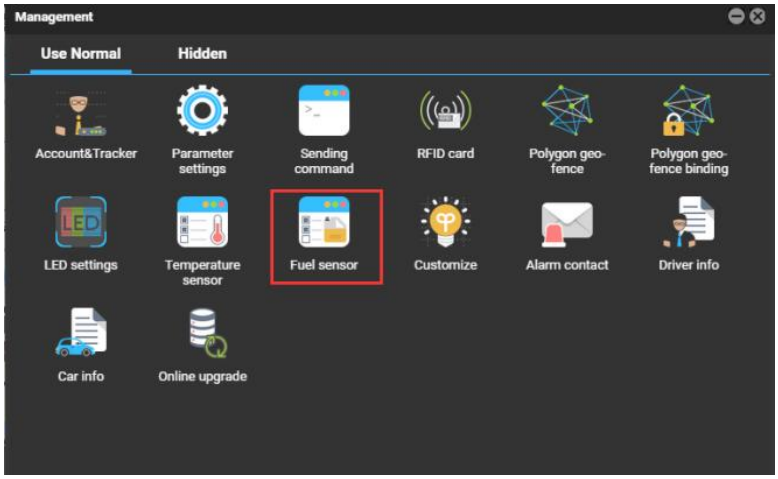


Note: The fuel detection port is a dedicated fuel sensor port. When a fuel sensor is connected to it, no formula is required on MS03. If not, a formula is required.

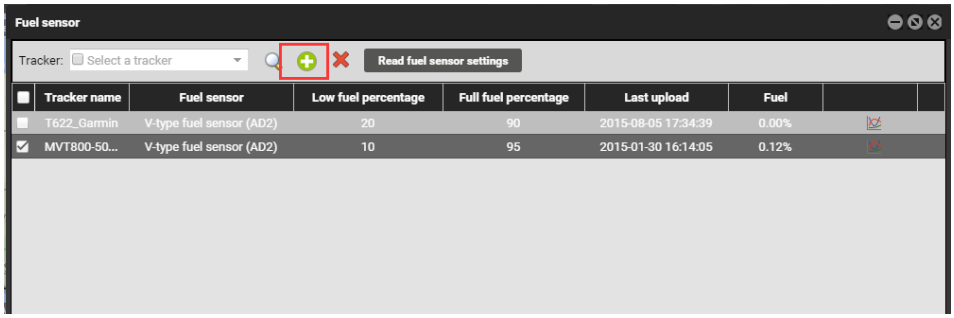
6.4 Adding a Fuel Sensor to MS03 (MVT600/T1/MVT800/T333)

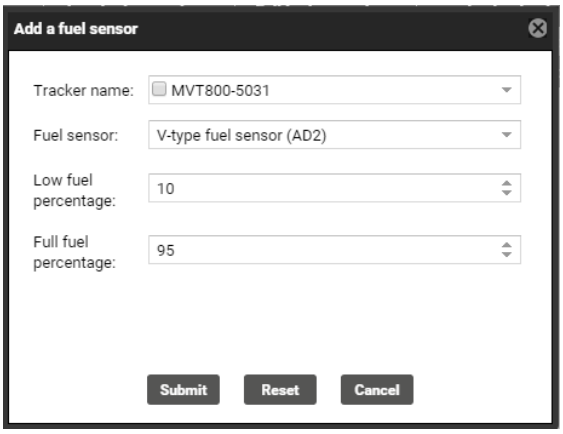
1. Add the T1/MVT600/MVT800/T333 to the MS03 platform, and connect the fuel sensor to the tracker.

2. On the MS03 platform, choose **Management** > **Fuel sensor**.



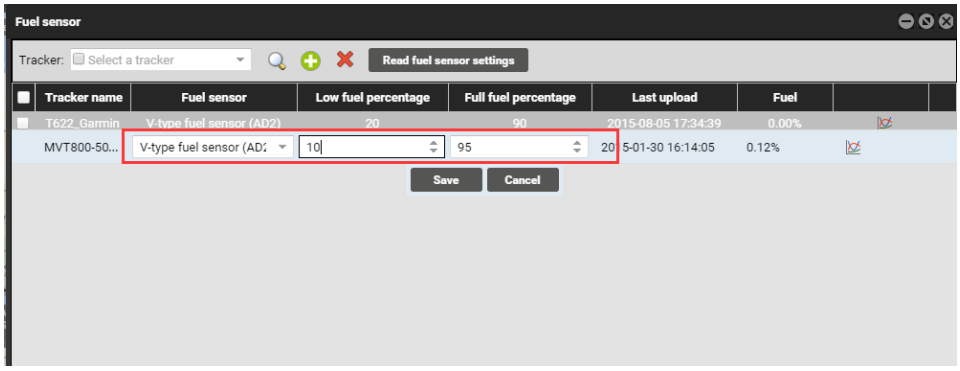
3. On the **Fuel sensor** window that is displayed, click  . On the **Add a fuel sensor** window, specify **Tracker name**, **Fuel sensor**, **Low fuel percentage**, and **Full fuel percentage**, and click **Submit**.





Note: There are three types of fuel sensors: C-type (Capacitor), R-type (Resistor) and V-type (Voltage value). Parameter **None** indicates that no fuel sensor is used. (C-type and R-type fuel sensors are V-type fuel sensors.)

4. On the **Fuel sensor** window, double-click a sensor to modify parameters **Fuel sensor**, **Low fuel percentage**, and **Full fuel percentage** as required.

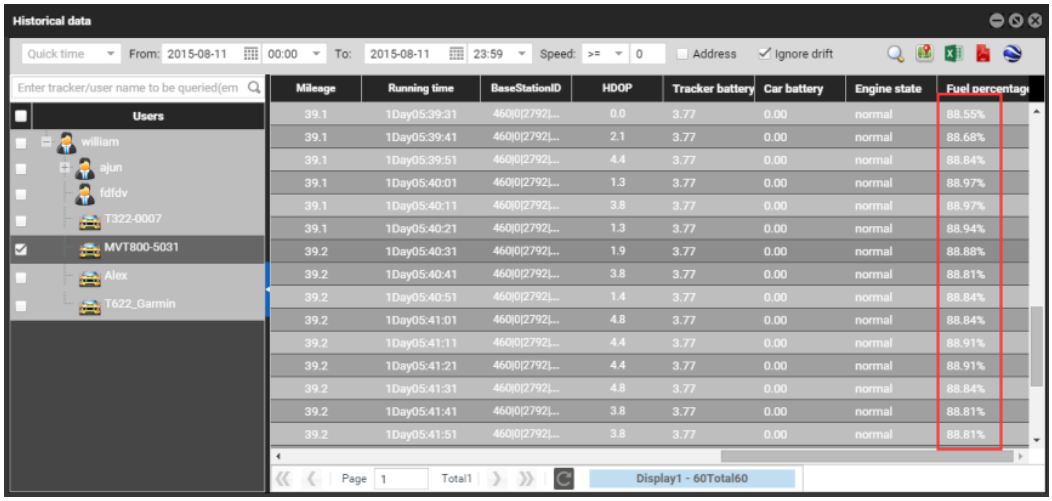


Note: When the fuel detection port of the MVT600/T1/MVT800/T333 is connected to the fuel sensor, no formula is required on MS03. When the sensor detects that the fuel is lower than the lower limit or is higher than the upper limit, an alarm will be generated.

7 Querying Reports

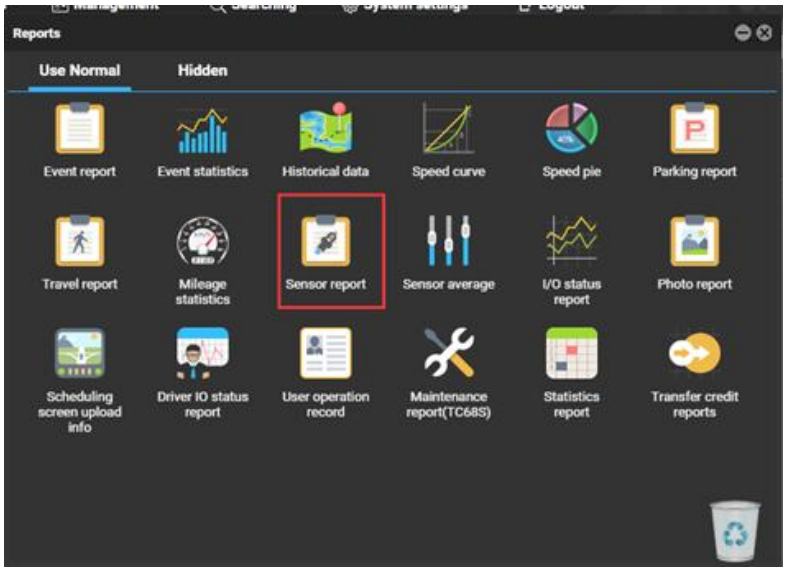
7.1 Historical Data

1. On the MS03, choose **Reports**.
2. On the **Reports** window, select **Historical data** from **Use Normal**. The **Historical data** window is displayed.
3. Select a tracker, set the query time, and click  . The results will be displayed, as shown in the following figure.



7.2 Sensor Report

1. On the **Reports** window, choose **Sensor report** from **Use Normal**. The **Sensor report** window is displayed.



2. Select a tracker and sensor, set the query time, and click  . The results will be displayed, as shown in the following figure.

If you have any questions, do not hesitate to email us at info@meitrack.com.