

MEITRACK Fuel Sensor User Guide



For MVT600/T1/MVT800/T333

Change History

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1 Copyright and Disclaimer

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2 Product Function and Specifications

2.1 Product Function

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

2.2 Specifications

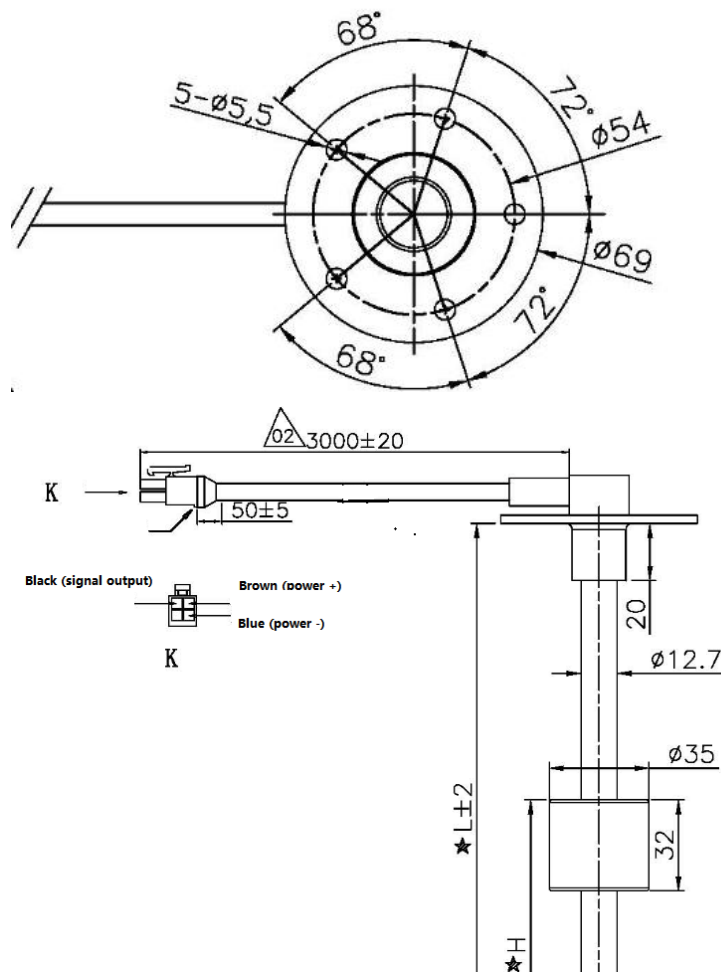
Item	Specifications
Sensor length	Standard length: 500 mm (Customize the length based on customers' requirements)
Diameter	16 mm
Output signal	4–20 mA, 0–5 V
Power supply	DC 12 V–40 V
Ambient temperature	-40°C to 70°C
Measurement Accuracy	± 0.5 level (10 mm)
Packaging materials	Stainless steel pipe

3 Main Device and Accessories

V-type fuel sensor (resistive voltage output fuel sensor A53)

4 Structure Figure

Resistive 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 the Fuel Sensor and Defining the Sensor on the GPS Tracking System

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

6.1 Connecting MVT600/T1/T333 AD1 to the Fuel Sensor

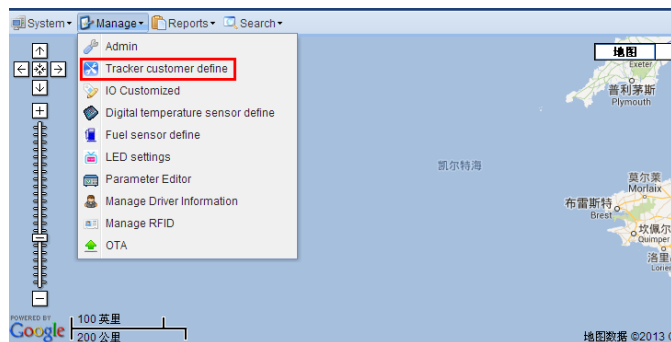
When MVT600/T1/333 AD1 is connected to the fuel sensor, cut the white plug of the fuel sensor, and connect the sensor cables to the tracker cables as follows:

This section only uses the T1 as an example:

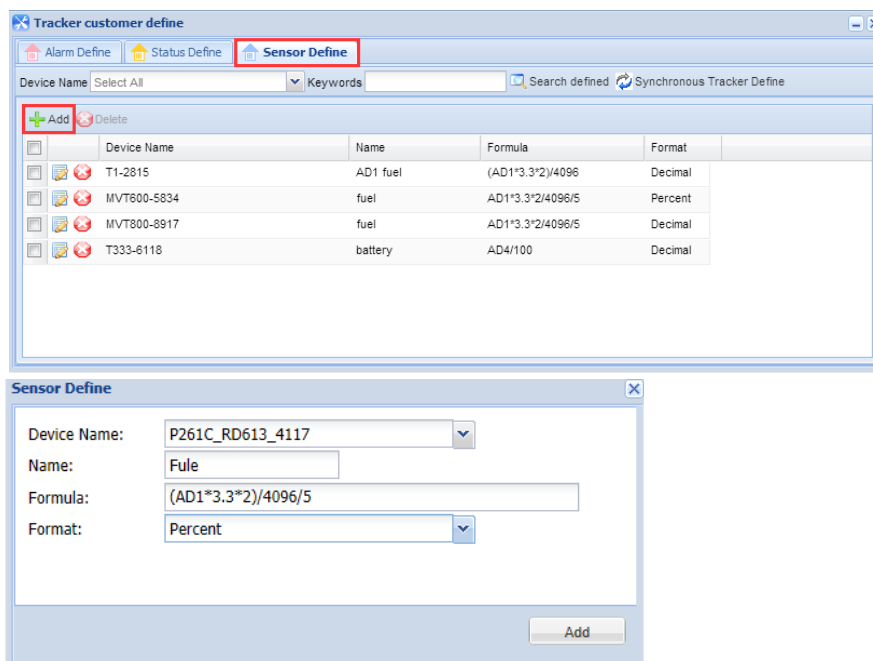
fuel sensor	to	T1
Red		power cable(red)
Black		AD cable(blue)
blue		GND (black)

6.2 Defining the Fuel Sensor (MVT600/T1/T333)

1. Add the MVT600/T1/T333 to the GPS tracking system, and connect the fuel sensor to the tracker.
2. Log in to the system, and Choose **Manage > Tracker customer define**.



3. On the **Sensor Define** page, click , specify **Device Name**, **Name** and **Formula**, and click **Add**.

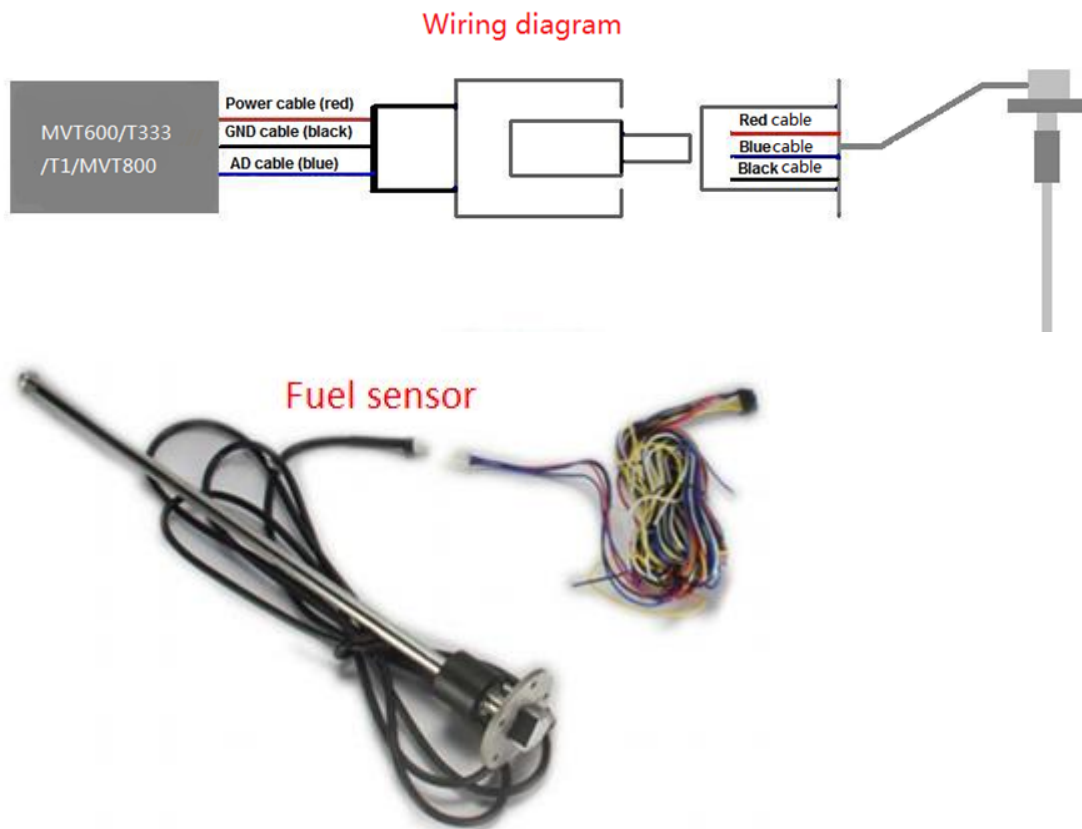


The calculation formula of the fuel sensor is as follows:

MVT600/T1/T333: $(AD1 \times 3.3 \times 2) / 4096 / 5$

6.3 Connecting to the MVT600/T1/MVT800/T333 Fuel Detection Port to the Fuel Sensor

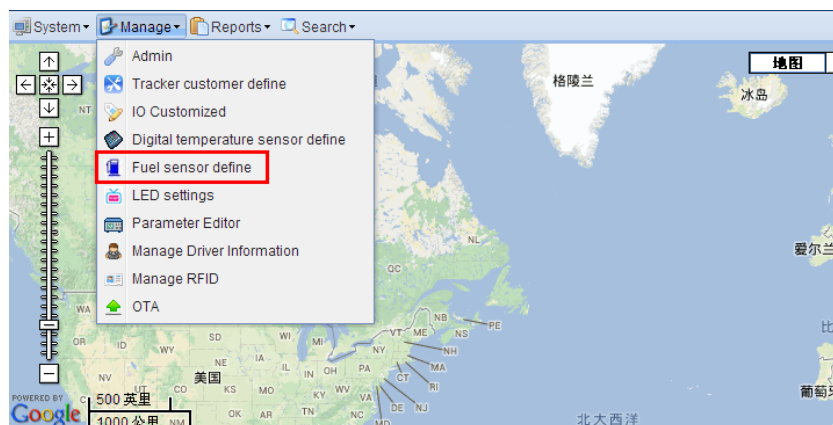
Connect the fuel sensor to the MVT600/T1/MVT800/T333 as follows:



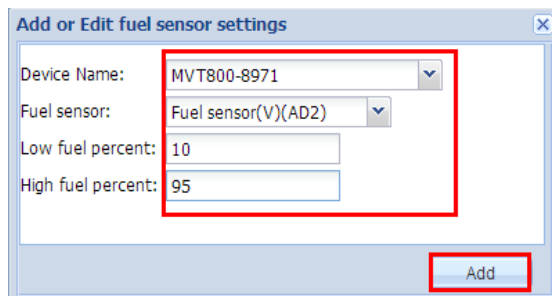
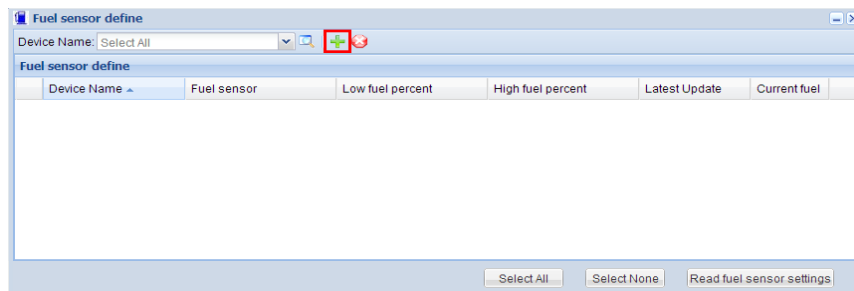
Note: The fuel sensor must be connected to the tracker's fuel detection port. If the fuel sensor is connected to other AD ports of the tracker, the calculation formula of the fuel sensor must be added. The MVT600/T1/MVT800/T333 fuel detection port is exclusively designed for the fuel sensor, so you can plug and unplug the port from the fuel sensor directly.

6.4 Defining the Fuel Sensor (MVT600/T1/MVT800/T333)

1. Add the T1/MVT600/MVT800/T333 to the GPS tracking system, and connect the fuel sensor to the tracker.
2. Log in to the system, and Choose **Manage > Fuel sensor define**.

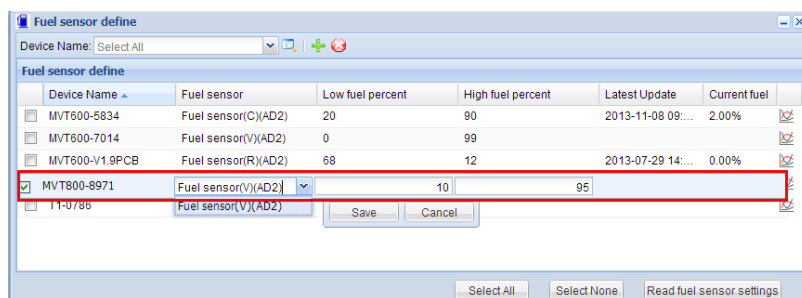


3. On the **Fuel sensor define** page, click . The **Add or Edit fuel sensor settings** window is displayed. Specify **Device Name**, **Fuel sensor**, **Low fuel percent**, and **High fuel percent**, and click **Add**.



Note: There are three types of fuel sensors: C-type (Capacitor), R-type (Resistor) and V-type (Voltage value). Parameter **No sensor** indicates that no fuel sensor is used. (C-type and R-type fuel sensors are V-type fuel sensors.)

4. Double-click a sensor whose settings are finished to change values of **Fuel sensor**, **Low fuel percent**, and **High fuel percent**.



Note: When the fuel detection port of the MVT600/T1/MVT800/T333 is connected to the fuel sensor, no fuel sensor calculation formula needs to be added. 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 Report Query

7.1 Querying a Historical Report

To query a historical report, log in to the MS02 system, choose **Reports > History Report**, select the query time, and click .

Search History Information

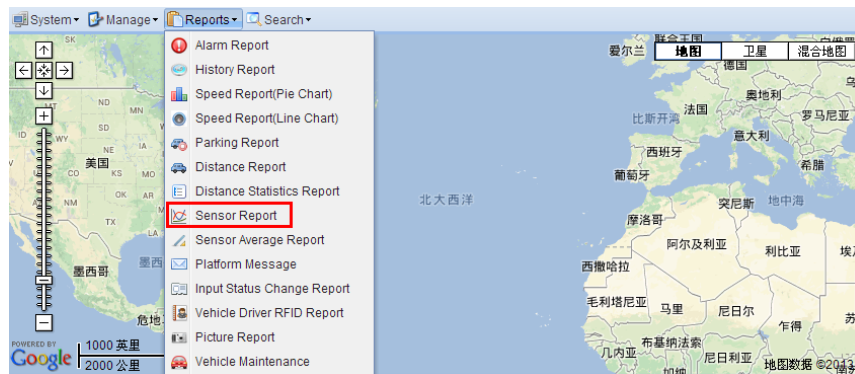
Device Name: MVT600-5834 From: 2013-10-10 15:23 To: 2013-11-08 23:59 Speed: >= 0 Get Address Filter

Longitude	Location	Altitude	Speed	Angle	Alarm Type	Satellites	GSM S...	Journe...	Run Time	Fuel	Tracker Battery	Car battery
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:13:24	76.73%	4.239404296...	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:13:34	77.23%	4.239404296...	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:13:44	77.44%	4.228125	11.9238281
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:13:54	76.22%	4.23779296875	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:14:4	76.97%	4.239404296...	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:14:14	76.66%	4.23779296875	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:14:24	75.93%	4.239404296...	11.9496093
4.057245		33	0	58	Time Interval Trac...	5	27	87.88	5day(s)3:14:34	75.18%	4.23779296875	11.9496093
4.057245		33	0	58	Time Interval Trac...	5	27	87.88	5day(s)3:14:43	75.08%	4.239404296...	11.9496093
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:14:53	75.11%	4.21845703125	11.9109375
4.057245		33	0	58	Time Interval Trac...	5	27	87.88	5day(s)3:15:3	73.81%	4.223291015...	11.9238281
4.057245		33	0	58	Time Interval Trac...	6	27	87.88	5day(s)3:15:13	75.08%	4.232958984...	11.9367187

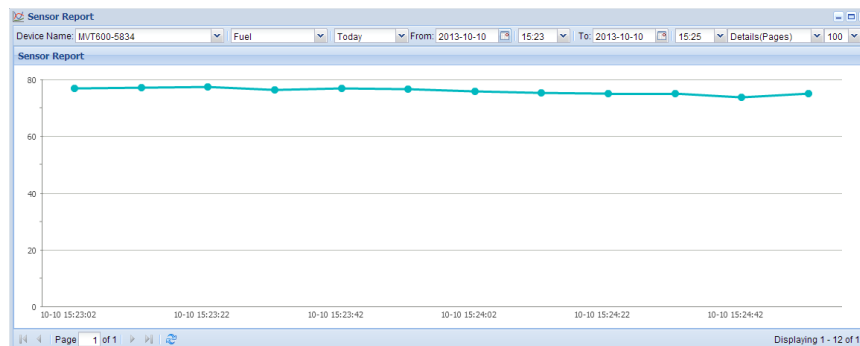
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7.2 Querying a Sensor Report

1. Choose Reports > Sensor Report.



2. Specify Device Name and Fuel, select the start time and end time, and click [Search].



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