



Applicable Model: MVT600/T1/MVT800/T333



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1 Copyright and Disclaimer

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2 Product Functions and Specifications

2.1 Product Functions

- Measure vehicle's fuel level.
- Detect an alarm when the fuel level is too high.
- Detect an alarm when the fuel level is 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 12–40 V
Ambient temperature	-40°C to 70°C
Measurement accuracy	± 0.5 level (10 mm)
Packaging material	Stainless steel pipe

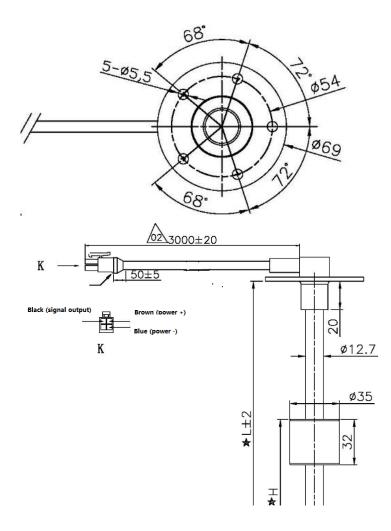
3 Main Device and Accessory

Main device: V-type fuel level sensor (A53 resistive fuel level sensor) Accessory: None

4 View

Resistive fuel level 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 Level Sensor

Install the fuel level sensor into the vehicle according to your requirements.

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

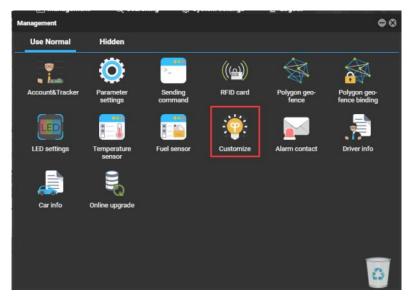
When the fuel level sensor is connected to the MVT600/T1/T333 with AD1, cut the white plug at the end of the fuel level sensor and connect the sensor to the tracker according to the following cabling: This section only uses the T1 as an example:



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

6.2 Adding the Sensor to MS03 (MVT600/T1/T333)

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



3. On the **Customize a sensor** tab page, click \bigcirc . On the **Add a customized sensor** window that is displayed, specify

Tracker, Customize name, Formula, and Display type, and click Submit.

Customize			000
Customize event Customize status	Customize a sensor		
Tracker: Select a tracker	Keyword:	Search defined Synch	ronize defined
Tracker name	Customize name	Formula	Display type
MVT800-5031			Percentage

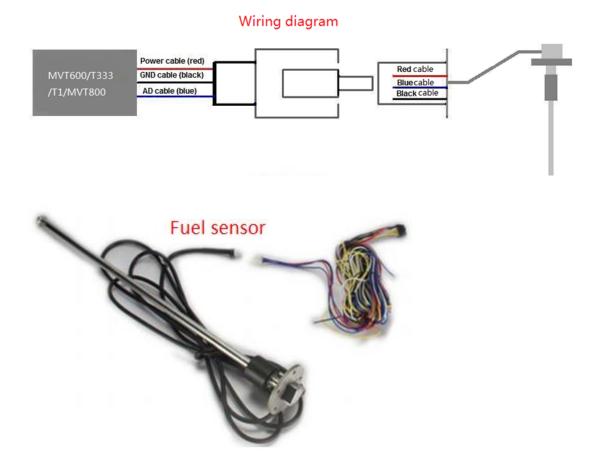


Add a customize	d sensor	8
Tracker:	WVT800-5031	*
Customize name:	FUEL	
Formula:	(AD1*3.3*2)/4096/5	
Display type:	Percentage	*
1	Submit Reset Cancel	

The calculation formula of the fuel level sensor is as follows: MVT600/T1/T333: (AD1 x 3.3 x 2)/4096/5

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

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



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

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

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



- 2. On the MS03 platform, choose Management > Fuel sensor.
- ManagementImagementUse NormalHiddenImagementImagem
- 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.

Fuel sensor						000
Tracker: 🔲 Select a t	tracker 🔻 Q	😯 🗙 Read fuel se	ensor settings			
Tracker name	Fuel sensor	Low fuel percentage	Full fuel percentage	Last upload	Fuel	
T622_Garmin	V-type fuel sensor (AD2)	20	90	2015-08-05 17:34:39	0.00%	2
MVT800-50	V-type fuel sensor (AD2)	10	95	2015-01-30 16:14:05	0.12%	Ø
Add a fuel sensor			8			
	_					
Tracker name:	MVT800-5031		~			
Fuel sensor:	V-type fuel sensor (AD2)	-			
1						
Low fuel percentage:	10		\$			
Full fuel percentage:	95		\$			
, J						
	Submit Rese	t Cancel				

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



Fue	el sensor						0 00
Tra	acker: 🔲 Select a	a tracker 🔹 🔍	🛟 🗶 Read fuel ser	nsor settings			
	Tracker name	Fuel sensor	Low fuel percentage	Full fuel percentage	Last upload	Fuel	
	T622_Garmin	V-type fuel sensor (AD2)	20	90	2015-08-05 17:34:39	0.00%	Ø
	MVT800-50	V-type fuel sensor (AD2 👻	10 \$	95 \$	20 5-01-30 16:14:05	0.12%	Ø
			Sav	e Cancel			

Note: When the fuel detection port of the MVT600/T1/MVT800/T333 is connected to the fuel level 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.

Select a tracker, set th	e query t	ime, and clio	ск 🔍. тI	ne result	ts will be	displayed,	as showi	n in the foll
listorical data								0 00
Quick time * From: 2015-08-11 III C	0:00 - To:	2015-08-11	3:59 🔻 Speed:	>= v 0	Address	🗹 Ignore drift	Q 🔮	🕼 📙 会
Enter tracker/user name to be queried(em 🔍	Mileage	Running time	BaseStationID	HDOP	Tracker batter	y Car battery	Engine state	Fuel percentage
Users	39.1	1Day05:39:31	460 0 2792	0.0	3.77	0.00	normal	88.55%
🗏 🧟 william								88.68%
🖶 🧸 ajun	39.1	1Day05:39:51	460 0 2792	4.4	3.77	0.00	normal	88.84%
- A fdfdv								88.97%
			460 0 2792					88.97%
- 🚘 T322-0007								88.94%
- 🚌 MVT800-5031		1Day05:40:31						88.88%
- 🚔 Alex								88.81%
T622_Garmin								88.84%
029								88.84%
	39.2	1Day05:41:11	460 0 2792	4.4	3.77	0.00	normal	88.91%
								88.91%
	39.2	1Day05:41:31	460 0 2792	4.8		0.00		88.84%
								88.81%
	39.2	1Day05:41:51	460 0 2792	3.8	3.77	0.00	normal	88.81%
	4							•
	(e 1 Total1	> >> C	Disp	olay1 - 60Total60			

7.2 Sensor Report

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



ports	un (, 000		num settinga	C coyour	4
Use Normal	Hidden				
	*	2			E
Event report	Event statistics	Historical data	Speed curve	Speed pie	Parking report
*	(<u>?</u>)		414	**	
Travel report	Mileage statistics	Sensor report	Sensor average	I/O status report	Photo report
			$\boldsymbol{\mathcal{X}}$		->>
Scheduling screen upload info	Driver IO status report	User operation record	Maintenance report(TC68S)	Statistics report	Transfer credit reports
#110					
					a

2. Select a tracker and sensor, set the query time, and clic

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

figure.

		U I	Reports Ma	anagement	Q	searching	୍ଦ୍ୱେ System setta	igs	🕒 Logout		10 W • 17		
ensor re	port												• 0
racker:	MVT800-5031	Ŧ	FUEL	▼ Quick time	Ŧ	From: 2015-08-1	11 🔢 00:00	To:	2015-08-11	23:59 👻	Show key data	▼ 100 ▼	Q
100													
90								•••	*****			*****	
80													
70													
60													
50													
40													
30													
20													
0 🔶		•••	•••••										
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2 2	Page 1	Tota	11 🔪 🚿 I 🖸	Display1	- 731	fotal/3							

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