

MEITRACK Fuel Sensor User Guide



Applicable Model: MVT600/T1/MVT800/T333

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

2.2 Specifications

ltem	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	\rightarrow	power cable(red)
Black	\rightarrow	AD cable(blue)
blue	\longrightarrow	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 \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 Sync	hronize defined
Tracker name	Customize name	Formula	Display type
MVT800-5031			Percentage

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

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.
- ManagementImagement</th
- 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.

Tracker: Select a tracker Core fuel percentage Full fuel percentage Last upload Fuel 1622.Gamin V-type fuel sensor (AD2) 20 90 2015-08-05 17:54:39 0.00%. Image: Core fuel sensor (AD2) MVT800-50 V-type fuel sensor (AD2) 10 95 2015-01-30 16:14:05 0.12% Image: Core fuel sensor (AD2) MVT800-50 V-type fuel sensor (AD2) Image: Core fuel sensor (AD2) I	Fuel sensor						• • •
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percentage: Submit Reset Cancel	Full fuel	95		\$			
Submit Reset Cancel	percentage:						
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		Submit Rese	t Cancel				
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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.



Fuel sensor						• • •
Tracker: Select	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 (AD: 📼	10 \$	95 \$	20 5-01-30 16:14:05	0.12%	
		Sa	ve Cancel			

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.

Select a tracker, set th	ne query t	ime, and cli	ск 🔍. т	ne result	ts will be o	displayed,	as shown	n in the	foll
listorical data								e	000
Quick time v From: 2015-08-11	00:00 🔻 To:	2015-08-11	23:59 🔻 Speed:	>= ~ 0	Address	🗹 Ignore drift	Q 🔮	XII 皆	۵
inter tracker/user name to be queried(em 🛛 🔍	Mileage	Running time	BaseStationID	HDOP	Tracker battery	Car battery	Engine state	Fuel perce	ntage
Users	39.1	1Day05:39:31	460 0 2792	0.0	3.77	0.00	normal	88.55%	^
🗏 🧟 william	39.1							88.68%	
E 🖉 aim	39.1	1Day05:39:51	460 0 2792	4.4	3.77	0.00	normal	88.84%	
	39.1							88.97%	
	39.1							88.97%	
1322-0007	39.1							88.94%	
MVT800-5031	39.2	1Day05:40:31						88.88%	
🚘 Alex	39.2							88.81%	
- Field Garmin	39.2							88.84%	
CE3	39.2							88.84%	
	39.2							88.91%	
	39.2							88.91%	
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	39.2							88.81%	
	39.2	1Day05:41:51	460 0 2792	3.8	3.77	0.00	normal	88.81%	
	4								E F
	K K Pag	e 1 Total1	$\rangle \rangle \rangle C$	Disp	olay1 - 60Total60				

7.2 Sensor Report

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



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Reports					00
Use Normal	Hidden				
	~^	2	1		
Event report	Event statistics	Historical data	Speed curve	Speed pie	Parking report
*	(444	***	
Travel report	Mileage statistics	Sensor report	Sensor average	/O status report	Photo report
			\mathbf{x}		
Scheduling screen upload info	Driver IO status report	User operation record	Maintenance report(TC68S)	Statistics report	Transfer credit reports
					0

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

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

figure.

				ponts ≣• Ma	anagement	Q	Searching	్టి: System set	angs	Logout	•			
Sensor re	eport													0 00
Tracker:	MVT800-	5031	⊤ F	UEL	▼ Quick time	Ŧ	From: 2015-0	8-11 🔠 00:00	▼ To:	2015-08-11	23:59	 Show key data 	× 100 ×	Q
100 -														
90					**** **	••								
80														
70														
60														
50														
40														
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0 🔶 2015-08-11	09:51:23	2015-08-11 0	9:52:34	2015-08-11 09:53:44	2015-08-11 09:54	55 20	015-08-11 09:56:05	2015-08-11 09:57:14	2015-08-	11 09:58:24 20	15-08-11 09:59:34	2015-08-11 10:00:45	2015-08-11 10:01:55	2015-08-11 10:03:26
~ ~	Page	1	Total1	$\rangle \rangle C$	Displa	y1 - 73	3Total73							

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