

MEITRACK CLS Sensor User Guide





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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	200–1500 mm (The sensor can be shortened based on the length range.)
Diameter	65 cm
Output signal	0–5 V
Power supply	DC 10–32 V
Ambient temperature	-40°C to 85°C
Resolution	1 mm
Tube material	Aluminum alloy

3 Main Device and Accessory

Main device: V-type fuel level sensor (A54 CLS) Accessory: Calibrator

4 View

Capacitive level sensor (CLS)











Covertext text height 2.5mm



5 Cutting the CLS

You can shorten the CLS according to your requirements.

Perform the following steps:

- 1. Determine the desired sensor length according to your needs.
- 2. Cut the unnecessary sensor using the power saw and clean up fuel sensor's burrs using the file.
- 3. Remove the bottom plug and install it into the sensor.





For example, as shown in the above figure, the desired sensor length is L-3.0 mm.



To avoid tube deformation, don't use great force to fix the fuel sensor.



To avoid a block, clean up burrs in the oil tube.



Caution: To avoid damaging the rubber cover, please install the rubber cover first and then the bottom plug.

6 Installing and Configuring the CLS

Install the CLS into the vehicle according to your requirements.

6.1 Connecting the CLS to a Non-dedicated Port

When the CLS is connected to the device with AD, cut the white plug at the end of the CLS and connect the sensor to the tracker according to the following cabling:



6.2 Adding the CLS to MS03

- 1. Add the MVT600/T1/T333 to the MS03 platform, and connect the CLS 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.

Customi	ze	· ·		000
Custom	nize event Customize statu	s Customize a sensor		
Tracker:	Select a tracker	Keyword:	Search defined	Synchronize defined 🕒 🗙
	Tracker name	Customize name	Formula	Display type
- 1	181CX_T366G_1124(V3)	电池	AD4/100	Value
1	81CX_T366G_1124(V3)	电瓶		Value
1	81CX_T366G_1124(V3)	AD1	AD1/100	Value
- 1	81CX_T366G_1124(V3)		AD2/100	Value
1	181CX_T366G_1124(V3)	AD3	AD3/100	Value
- F	H42H5_T333_7432(油感)			Value
E F	H42H5_T333_7432(油感)	AD4	AD4	Value
	T330G_6634			Value
	T330G_6634	AD2	AD2	Value
	T333_1673(胎压)			Value
	T333_1673(胎压)	AD2	AD2	Value
	T333_1673(胎压)	AD4		Value 👻
~ (Page 1 Total1)) C Display1 - 1	13Total13	

Customize					000
Customize event Customiz	e status Custor	nize a sensor			
Tracker: Select a tracker	a Konword		Search defined	vnchronize defined	×
Tracker name	Add a customi	zed sensor		Display type	
181CX_T366G_1124(V3)	Tracker:	MVT800-6-7	-	Value	4
				Value	
■ 181CX_T366G_1124(V3)	Customize	CLS fuel sensor		Value	
	name.			Value	
■ 181CX_T366G_1124(V3)	Formula:	(AD1*3.3*2)/4096/5		Value	
	Display type	Percentagel	_	Value	
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		10 G 10		Value	
■ T333_1673(廣圧)					_
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6.3 Calibrating the CLS

1. Open the sensor cover and connect the calibrator to the sensor.





2. Calibrate the full level: Fill the fuel tank to the full level, put the sensor into the tank, and wait for about 30 seconds until the sensor tube is filled with fuel. Then press and hold down the F button of the calibrator. The sensor will enter the full level calibration mode if the green LED indicator blinks. Then release the F button. After about 10 seconds, the full level is calibrated successfully if the green LED indicator is off.

Calibrate the empty level: Take the sensor away from the fuel tank. After the fuel is drained from the sensor tube, press and hold down the **E** button of the calibrator. The sensor will enter the empty level calibration mode if the green LED indicator blinks. Then release the **E** button. After about 10 seconds, the empty level is calibrated successfully if the green LED indicator is off.



After calibration is finished, disconnect the calibrator, close the sensor cover, and tighten the screws. Then connect the red and black cables to the tracker's power cables. The calibration will become effective after the sensor is powered on.
 Caution:

- 1. You must set the full level first and then the empty level.
- 2. If you don't press the button correctly during calibration, please turn off the calibrator and then calibrate the sensor again.
- 3. Don't disconnect the calibrator from the power supply during calibration. Otherwise, please calibrate the sensor again.

6.4 Adding the CLS to MS03

- 1. Add the T1/MVT600/MVT800/T333 to the MS03 platform, and connect the CLS 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.

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F	uel	sensor			in a 🚱 Frankson sakkin as	3×4 Danamatan ar			900
	Frac	cker: 🔲 Select a	tracker 👻	् 🕀 🗶 🛛	Read fuel sensor settings				
ic.	1	Tracker name	Fuel sensor	Low fuel p	Full fuel nercentage	heolau tecl		Fuel	
		T333_5247	V-type fuel sensor (/	Add a fuel senso	r	8	1:	0.00%	×
				4					
				Tracker name:	MVT800-6-7	*			
				Fuel sensor:	C-type fuel sensor (AD2)	*			
E									
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				Si	ıbmit Reset Cane	el			
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3	1	C Page 1	Total2	CDi	splay1 - 10Total13				

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 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.

Fue	l sensor						•••
Tra	cker: 🔲 Select a tra	acker 🔹 🔍 🕀 💥	Read fuel sensor settin	ngs			
	Tracker name	Fuel sensor	Low fuel percentage	Full fuel percentage	Last upload	Fuel	
	T333_5247	V-type fuel sensor (AD2)	20	80	2016-11-18 15:36:	0.00%	
		V-type fuel sensor (AD2)					X
	H42H5_T622G	None	0	0	2016-11-03 14:09:	0.00%	
	181CX_T333_8	V-type fuel sensor (AD2)			2016-10-10 10:46:		×
	T333_1673(胎压)	V-type fuel sensor (AD2)	20	80	2016-11-14 18:15:	0.00%	Z
	H42H5_T333_7						
	T333_2414(T)	V-type fuel sensor (AD2)			2016-11-18 15:36:	0.00%	×
	T311 0188(V1	C-type fuel sensor (AD2)	0	100	2016-03-29 03:24:		
	MVT800-6	C-type fuel sensor (AD2)	20 \$	95 \$	2015-10-14 17:49:	0.00%	M
	H425_T355_85	V-type fuel sensor (AD2)	Save	ancel 5	2016-11-18 15:36:		
							F
<<	<pre> Page 1 </pre>	Total2	Display1 - 10Total13				

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.

3.

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

MVT800-6-7	2											• 8
From: 2016	5-07-08 🕅 (• 00:00	To: 2016-	07-08 🔟 23:59	9 ▼ Speed: >= ▼ 0	ress 🗹	lgnore drift	् 🤱 🚺	📙 🥸			
eiving time	GPS valid	Speed	Latitude	Longitude	Location Alarm type	Directio	Number of sat	Signal strengtl	Mileage	Running time	ruei perce	inta
07-08 16:00:06	Valid	0	22.513563	114.057261	Track by time inter	308	7	28	7.1	3Day08:16:52	98.38%	^
07-08 16:00:26					Track by time inter						98.38%	
07-08 16:00:40											98.38%	
07-08 16:00:46					Track by time inter							
07-08 16:01:06											98.29%	
07-08 16:01:26												
07-08 16:06:23											98.19%	
07-08 16:06:43					Track by time inter							
07-08 16:06:05	Valid				Fuel Full(98.16%)					3Day08:21:48	98.16%	
07-08 16:06:07												
07-08 16:06:12											98.16%	
07-08 16:07:03					Track by time inter							
07-08 16:05:55											98.03%	
07-08 16:08:19												
07-08 16:08:24											98.00%	
4												1
« 	age 11	Total13	3 > >>	C Disp	lay501 - 550Total623					Show driver	and license-pla	te

7.2 Sensor Report

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

Reports							●⊗
Use Norma	l Hidde	n					
		2			P	x	
Event report	Event statistics	Historical data	Speed curve	Speed pie	Parking report	Trip report	
						e te se se	
Mileage statistics	Sensor report	Sensor average	Photo report	Scheduling screen upload	Driver RFID/IO	VPC Report	
*			T	info	status report		
User operation record	Statistics report	Transfer credit reports	Reports query				
							3

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

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MEITRACK CLS Sensor User Guide



8 Obtaining the Sensor Installation Video

Please visit the following website to view the fuel sensor installation video: http://www.meitrack.com/en/video-tutorials/.

9 FAQ

1. How are the sensors calibrated?

A: Put the CLS into the tank (or calibration container), add oil to the full level, wait for the oil to enter the sensor completely and then connect the calibrator, turn on the calibrator switch, press and hold down the "F" key, release the key after the green light blinks, and let the green light blink until it stops; take the sensor out of the tank (or the calibration container), and let the oil flow back to the tank. (or calibration container), when the oil is finished dripping, press and hold the "E" key, release the key after the green light blinks, and let the green light blink to a stop to complete the calibration; the calibrator should be connected all the time during the calibration process, and the power can not be cut off. The calibration sequence must be full and then empty, otherwise the calibration will not be successful.

2. Why does the calibrator not work?

A: First check if the battery is charged, a new battery can calibrate 15~20 CLS; then make sure the indicator light on the calibrator is normal.

3. The green light blinks according to the manual when calibrating a full position, but does not blink when calibrating an empty position.

A: First of all, confirm whether the battery power is sufficient, connect the calibrator after the red light is slightly lit or does not light up when it indicates that the power is insufficient. Then verify that the calibrator does not shut off and reopen or that the calibrator is disconnected from the sensor.

4. Why is the CLS output not full (or inaccurate output) when the sensor is calibrated and filled with full oil?

A: The refueling did not reach the calibrated full level. If the calibrated full level in the sensor head below the small hole, the actual amount of oil did not reach the small hole; in general, as long as the oil tank to add about 90% of the tank has reached what is often referred to as the full tank, so if the calibrated full level in the sensor head below the words, the value is about 4.5V (about 90% of the oil).

5. How to make sure that the CLS is at the full tank position after calibrated?

A: Calibrate and set the full and empty level directly on the tank; if it is not possible to calibrate on site, a rod can be used to measure the height of the liquid level in the tank when it is full and mark the rod, then mark the CLS at the same height, and refuel the tank in the homemade measuring cylinder to the marked position to calibrate the full level.

6. Why is it recommended that another calibration be required at the customer's premises?

A: First of all, different oils will have an effect on the sensor; secondly, the customer requires a full position that is different from the calibrated position in the factory; and lastly, if there is a cut-out, it will have to be re-calibrated.

7. Can CLS be used to measure water?

A: No, CLS cannot be used to measure conductive media (e.g., water); when the liquid is conductive, CLS will always show a voltage around full or close to 100 percent.

8. Why does the CLS output of the voltage signal keep showing about 0.7V?

A: The sensor is normal because the ground and signal wires are reversed. The one shipped before 2014/5/1 is the blue ground wire, and the one shipped after 2014/5/1 is the black ground wire.

9. What is the shortest length the CLS can be cut off to?

A: The truncated portion cannot exceed 2/3 of the total length of the original sensor,

i.e. the truncation cannot be less than 1/3 of what it was before the truncation. e.g. CLS1-900 can be truncated to CLS1-300 at the shortest.

10. Is there any impact on product functionality after CLS cutting?

A: If the cuts are made as required, debris is cleaned up, assembly is in place and re-calibration is successful, the cuts will have no effect on the function of the product.

11. What length should we order the CLS?

A: The height of the tank minus the wall thickness of the upper and lower tanks, and then subtract 1~2cm is the height of the CLS; for tanks higher than 1 meter, consider increasing the bottom spring, the height of the tank minus the wall thickness of the upper and lower tanks, and then subtract 1cm can be.

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