MEITRACK® OBD Vehicle Tracker

TC68

User Guide

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Contents

1. Notice 3
   1.1 Usage Information 3
   1.2 Product Accessories 3
2. Product Function and Specifications 4
   2.1 Introduction 4
   2.2 Specifications 4
   2.3 Product Function 5
      2.3.1 GPS Tracking 5
      2.3.2 Alarms 5
      2.3.3 Vehicle Fault and Safe Driving Reminder 5
      2.3.4 Integrated Functions 6
3. View 6
4. Quick Start 7
   4.1 Insert the SIM Card 7
   4.2 Charge the Battery 8
   4.3 LED Indicators 8
   4.4 Track by Calling 8
      4.4.1 Multiple Phone numbers– A71 10
      4.4.2 Listening-in (Voice Monitoring) – A72 10
      4.4.3 Smart Sleep Mode – A73 10
      4.4.4 Time Zone – B35 11
   4.5 Configure by Computer 11
      4.5.1 SMS Tracking 14
      4.5.2 GRPS Tracking and Buzzer Reminding Configuration 15
      4.5.3 Fault Record 17
   4.6 Platform Tracking 19
5. TC68 Installation 19
   5.1 Plug Car Connector Directly 19
   5.2 Use the Extension Cable to Install (Optional) 20
6. Applicable Type of Vehicles 22
7. Copyright and Disclaimer 24

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1. Notice

1.1 Usage Information

○ This product is a wireless communication terminal, please turn it off before getting into the oil depot, places of dangerous goods, restricted area.

○ Ensure that it is not exposed to rain and high temperature while installing and running.

○ Irresistible factors, such as bad weather and metal objects may lead to poor signal reception.

○ As this product utilizes wireless transmissions, for better signal strength, please put it to the place where no metal shielding while using optional extension cable.

○ The operating voltage of this product is DC 12V, and cannot be installed with 24V or 36V, otherwise it will be damaged . This is not included in warranty policy.

○ Ensure Ignition is off during the period of installation, plug in the terminal and then start the vehicle.

○ In order to prevent the unit from unwanted removal, please use OBD extension cable to hide the unit in a proper place for prolonging removal time.

1.2 Product Accessories

Please check the package you received as per below list, ensure accessories are completed and properly purchased on demand.

Standard Accessory			Optional Accessory		
Number	**Item**	**Quantity**	**Number**	**Item**	**Quantity**
1	TC68 Device	1 pc	1	OBD Extension Cable	1 pc
2	USB Data Cable	1 pc	2	Velcro	1 pc
3	Quick Start Instruction	1 pc			
4	Warranty Card	1 pc			
5	Certificate of Quality	1 pc			
6	CD (Including User Manuals, Protocol, Configuration Software)	1 pc			
7	Package	1 Set			

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2. Product Function and Specifications

2.1 Introduction

TC68 is a GPS vehicle tracker specially developed and designed with OBD II (On-Board Diagnostics II) function, mainly used for vehicle tracking, anti-theft, vehicle examination and fault diagnostics etc. It can provide you with professional analysis for economic and safe driving.

TC68 can be easily and quickly installed, plug-in and play.

TC68 is applicable to those private cars and other vehicles with OBD II standard protocol and connector.

2.2 Specifications

Items	Specification
Dimension	69.8*51.8*31.8 mm
Weight	60g
Input Voltage	DC 12V/1A
Back-up Battery	150mAh/3.7V
Power Consumption	100mA
Operating Temperature	-20℃~55℃
Humidity	5%~95%
Work Time	7 hours in power-saving mode and 1.5 hours in normal mode (with back-up battery)
LED	2 LED lights to show GPS/GSM status
Button	1 SOS button, 1 power button
Microphone/Speaker	Internal microphone and speaker
Memory	8MB
Sensor	Tremble sensor
GSM Frequency	GSM 850/900/1800/1900MHz
GPS Chip	Latest GPS SIRF-Star IV chipset
GPS Sensitivity	-163dB
Positioning Accuracy	10 meters
Input/ Output	1 port for USB cable

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2.3 Product Function

2.3.1 GPS Tracking

Function	Description
Real Time Tracking	Send SMS/GPRS command to get real time position.
Timing Tracking	Set time interval for tracking. The unit will, in accordance with the preset time, report location information at interval to the platform or mobile phone.
Distance Tracking	Set distance interval for tracking. The unit will, in accordance with the preset distance, report location information at interval to the platform.
Turn Report	Set turn angle. The unit will report location information if its turn angel is greater than preset angel. This will be a supplement when timing tracking report and distance tracking report are absent in the corner.

2.3.2 Alarms

Function	Description
Disassemble Alarm	An alarm will be generated and sent to the platform or mobile phone when the device is removed from the OBD socket.
Speeding	Set speed limit through the platform. An alarm will be generated if the speed exceeds preset value.
Geo Fence	Set a circular geo-fence with center coordinates and radius. When the device enter or quit the fence, it will report alarm to the platform or send SMS to your mobile phone.
SOS	Press SOS button to generate alarm.
Low Power Alarm	Alarm will be generated when the external power supply is less than 10V.
Terminal Status Alarm	Turn on or restart TC68, alarm will be generated.

2.3.3 Vehicle Fault and Safe Driving Reminder

Function	Description
Vehicle Fault Alarm	Alarm when vehicle fault occurs. Read fault code and freeze frame. The device will cache fault data stream, store fault data in GPSLOG and upload it to the platform. Fault content, possible reasons and freeze frame data will be shown on the platform. In order to avoid high maintenance costs, when fault alarm is occurred, please solve it in time.
Safe Driving Reminder	Maintenance Reminder Alarm Fatigue Driving Alarm Parking Overtime Without Ignition Off Alarm Engine Overheat Alarm RPM Speeding Alarm Rush Deceleration Alarm Rush Accelerate Alarm

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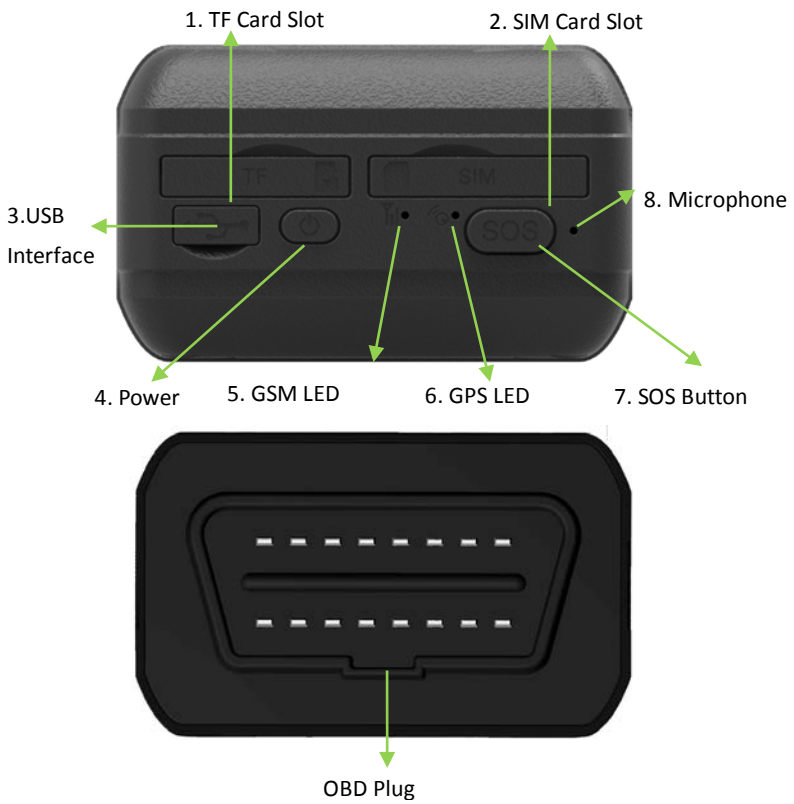
2.3.4 Integrated Functions

Function	Description
Listen-in Function	Listen-in function helps driver to know the status inside the car, and provide analysis report when it has been stolen.
OTA	OTA (Upgrade over the air) enable firmware could be upgraded remotely.
GPSLOG	When GPS fix, the device will record vehicle running track in time interval. You can read this GPSLOG from Meitrack Manager. Total 130000 records can be recorded.
GPS&GSM Tracking	When no GPS fix, the device will get position data from GSM base station as supplementary for tracking.
GPS Blind Spot Report	When entering and leave GPS blind area, device will send alert to the platform.
GSM Blind area storage/Replenish Alarm	If the device failed to send out data in GSM blind area, it will record the data and re-send to the platform when GSM signal is recovered. Built-in FLASH 8M, GPRS buffer 8000, SMS buffer 256.
Mileage Report	Mileage information is contained in each GPRS data. You can modify the device's mileage as the same with vehicle odometer value when using it initially.

3. View



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NO.	Name	Function
1	TF Card Slot	TF maps card slot (only applicable in China mainland)
2	SIM Card Slot	SIM card slot
3	USB Interface	USB Interface enables to charge, connect the computer for the parameters configuration and firmware upgrade.
4	Power	In the case of turn off, press and hold the power switch for two seconds, until the device is beeping and on. In the case of turn on, press and hold the power switch for two seconds, until the device is beeping and off. In sleep mode, short press the power switch to wake up the device, power LED indicator flashes slowly for 10 seconds.
5	GSM LED (Green)	GSM LED indicates that the device receives GSM signal. Details in"4.3 LED Indicators"
6	GPS LED (Blue)	GPS LED indicates that the device receives GPS signal. Details in"4.3 LED Indicators"
7	SOS Button	In the case of emergency, press and hold the button for two seconds, the device will beep in "BI" to alert users. The device will call 3 Authorization phone numbers in turn and stop calling when one phone answers. Meanwhile, SMS will be sent to the authorized number. GPRS data will be sent to the platform if GPRS is available. In sleep mode, short press SOS button to wake up the device.
8	Microphone	The microphone is automatically enabled when the voice monitor function is on.
10	OBDII Standard Plug	Plug-in OBD II interface to get power and read the vehicle's diagnostic data.

4. Quick Start

4.1 Insert the SIM Card

Notice：Please turn off TC68 before insert the SIM card

SIM Card：

Remove the cover of SIM card and insert SIM card as picture (chip down), refit the cover.

Notice：

- Make sure there is enough charge (test it by SMS and Call after the SIM card inserted);
- Make sure turn off the PIN function of the SIM card ;
- Make sure you have set Caller ID Display function if you need SMS report

Insert SIM Card

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after calling the device.

4.2 Charge the Battery

Please charge TC68 for at least 3 hours by the USB data cable while the first using. To shorten charging time, please turn off TC68 while charging.

4.3 LED Indicators

Press and hold the Power button for 3~5 seconds to turn on/off TC68.

Once insert TC68 into OBD II connector, it will turn on automatically with BI buzzer.

GPS LED (Blue)	
Status	**Description**
On	One button is pressed or input is triggered
Fast Flashing (every 0.1 second)	Initializing or low battery
Fast Flashing (0.1 second on, 2.9 seconds off)	GPS fix
Slow Flashing (1 second on and 2 seconds off)	No GPS fix
GSM LED (Green)	
Status	**Description**
On	A call is coming in or busy
Fast Flashing (every 0.1 second)	Initializing
Fast Flashing (0.1 second on, 2.9 seconds off)	GSM signal received
Slow Flashing (1 second on and 2 seconds off)	GSM signal lost

4.4 Track by Calling

Make a call to TC68 and it will report with one SMS.

For example,

Now,110727 02:48,V,16,23Km/h,61%,http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329&ie=UTF8&z=16&iwloc=addr&om=1

Click on the link then the location can be shown directly on Google Maps on your mobile phone.

Report description:

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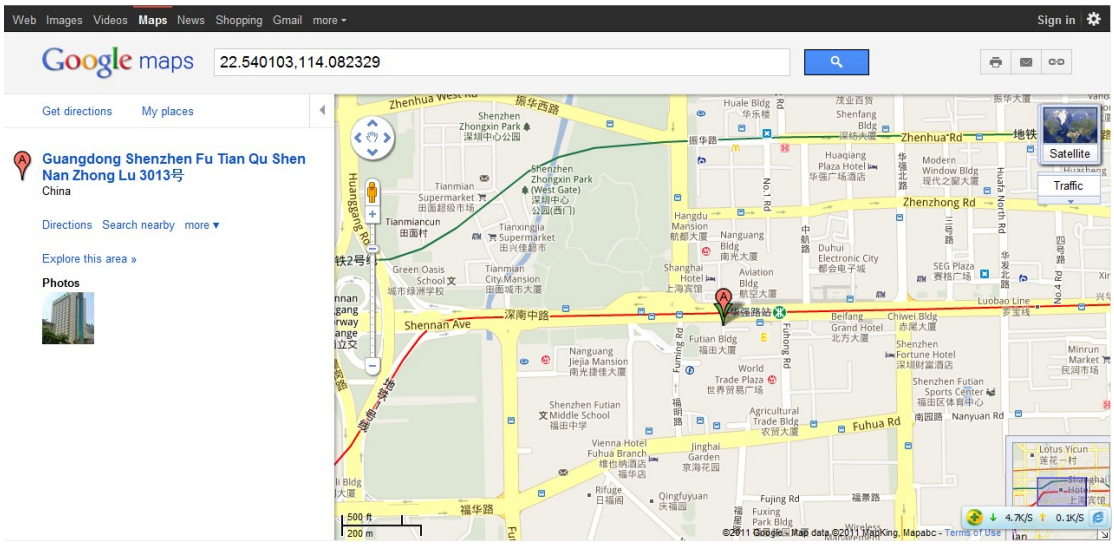
Now,110727 02:48,V,16,23Km/h,61%,http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329&ie=UTF8&z=16&iwloc=addr&om=1

Content	Description	Note
Now	Current Location	Alarm Type
110721 16:40	Date & Time: 21 July, 2011, 16:40pm	Date & Time in YYMMDD HH:MM
V	No GPS fixed	GPS Status Indicator: A = valid, V = invalid
10	GSM signal=10	GSM Signal. Decimal Digit (0~31)
0Km/h	Speed=0	KM/h. Decimal digit
97%	Battery Power: 97%	Battery Power Balance (Percentage)
http://maps.google.com/maps?f=q&hl=en&q=22.540103,114.082329&ie=UTF8&z=16&iwloc=addr&om=1	Latitude: 22.513015 Longitude: 114.057235	Google Maps Web Link with Latitude and Longitude. Click on the link to get the location.

If your mobile cannot visit HTTP websites, input the latitude and longitude into Google Maps as the following picture shows to get the position:



More SMS commands

You can configure TC68 by mobile phone or by computer using Meitrack Manager.

For more details, please refer to part 4.5 **Configure by Computer**.

Note:

1. *Password is 4 digits only and defaulted as 0000. You can change the password by Meitrack Manager and SMS command.*
2. *TC68 will only accept commands from a user with the correct password and report SMS report to the user. If preauthorized phone number was set, only this phone number can receive SMS reports.*

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4.4.1 Multiple Phone numbers– A71

Command: 0000, A71, phone number 1, phone number 2, phone number 3

SMS Get: IMEI, A71, OK

Note：

Authorize a phone number for SOS alarm, calling for location report, geo-fence alarm, and low battery alarm.

Phone Number: Max 16 characters.

If no preset phone number, it is empty (default is empty).

Send command “0000, A71” to delete all phone numbers.

When the SOS button is pressed, TC68 will make a call to phone number 1, 2 and 3. It will stop calling when one number answers.

Example: 0000,A71,13811111111,13822222222,13833333333

SMS Get: 353358017784062,A71,OK

4.4.2 Listening-in (Voice Monitoring) – A72

Command: 0000, A72, phone number 1, phone number 2

SMS Get: IMEI, A72, OK

Note:

Authorize a phone number to make a silent call to the tracker. The tracker will answer the call automatically and allows the caller to listen to what is happening around the tracker. There is no sound when the tracker is working.

Phone Number: 2 monitoring numbers at the most can be set, 16 characters per number.

If no preset phone number, it is empty (default).

If no phone number, but has “,”, the number related to this “,” is deleted.

Send command “0000, A72” to delete all phone numbers.

Example: 0000,A72,13844444444,13855555555

SMS Get: 353358017784062,A72,OK

4.4.3 Smart Sleep Mode – A73

Command: 0000,A73,X

SMS Get: IMEI,A73,OK

Note:

This setting is for power saving.

X=0, turn off sleep mode (default). TC68 can work for 1.5 hours with back-up battery.

X=1, normal sleep. TC68 can work for 4 hours with back-up battery. GSM module works. GPS module runs for 5 minutes and then close for 5 minutes intermittently.

Note: Normal Sleep is not recommended for users who set “track by interval”, because it will affect the completeness of tracking.

X=2, deep sleep, TC68 can work for 8 hours with back-up battery. The tracker will enter this mode after it is inactive or stationary (No SOS/any triggered by the button/input/incoming calls/message/movement) for 5 minutes. GPS module stops working and GSM module enters sleep mode. The tracker remains in this mode until it is activated by SOS/any triggered by the button/input/incoming calls/message/movement. After that, it will

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repeat above processes.

Note: In any condition, the device will directly quit the sleep mode and back to normal working mode by SMS or GPRS command to turn off the sleep mode.

Example: 0000,A73,2

SMS Get: 353358017784062,A73,OK

4.4.4 Time Zone – B35

Command: 0000,B35,T

SMS Get: IMEI,B35,OK

Note:

Default time of the tracker is GMT. You can use this command to change the time on your tracker to your local time. This command is for SMS tracking only.

Time zone of SMS report is separated with that of GPRS data. If you need to set time zone in GPRS data, please use SMS command: 0000, B36, T

T=0, to turn off this function.

T=[-32768,32767] to set time difference in minutes to GMT.

For those ahead of GMT, just input the time difference in minutes directly. For example, GMT+8, W000000,032,480

'-'is required for those behind GMT. For example, W000000,032,-120.

Example: 0000,B35,480

SMS Get: 353358017784062,B35,OK

For more details regarding SMS commands, please refer to MEITRACK SMS PROTOCOL.

4.5 Configure by Computer

This chapter mainly describes the simple configuration by Meitrack Manger. Please read Meitrack Manager User Guide to know the complete functions.

Connect your TC68 to the computer via USB data cable as the picture below:

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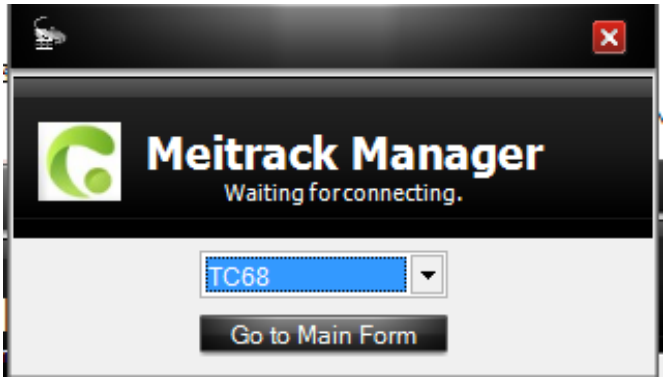
Run MEITRACK Manager.exe, turn on your TC68, Meitrack Manager will automatically identify the port number and read out all parameters as follow:



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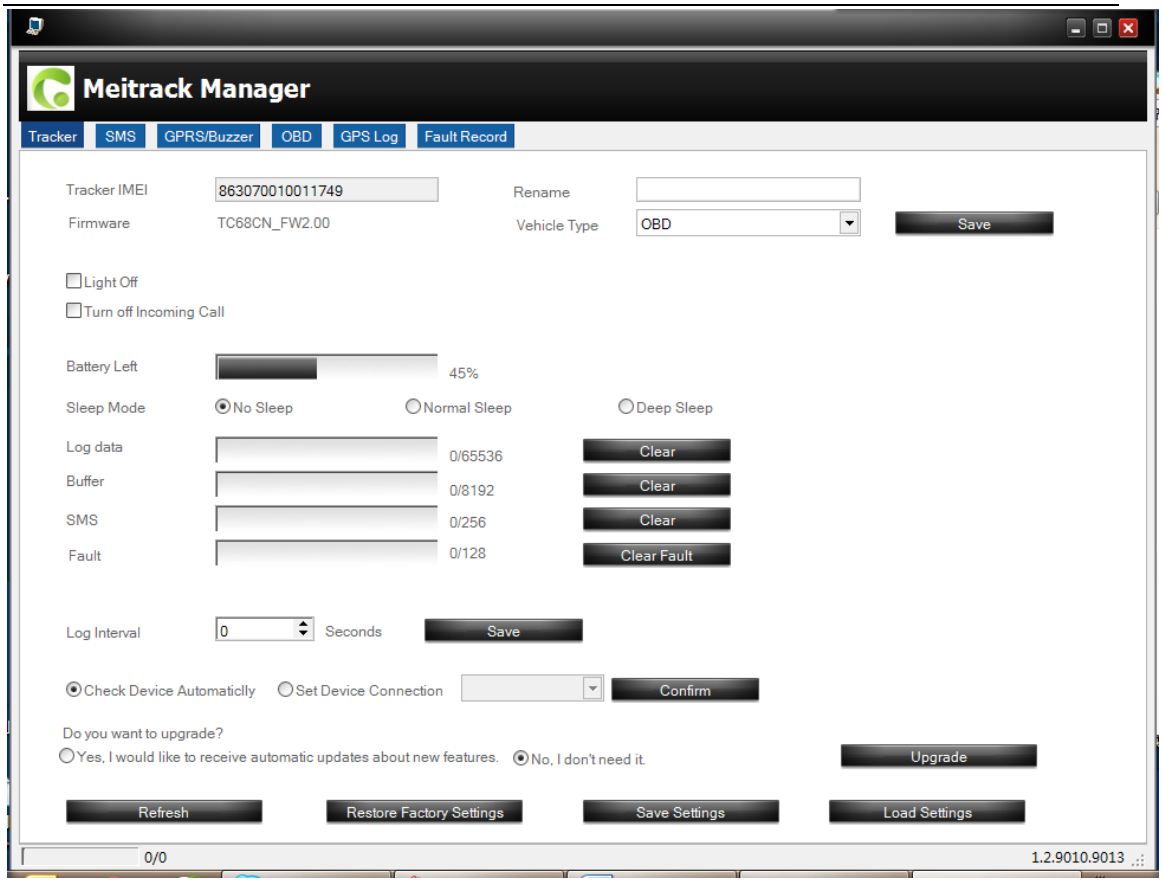

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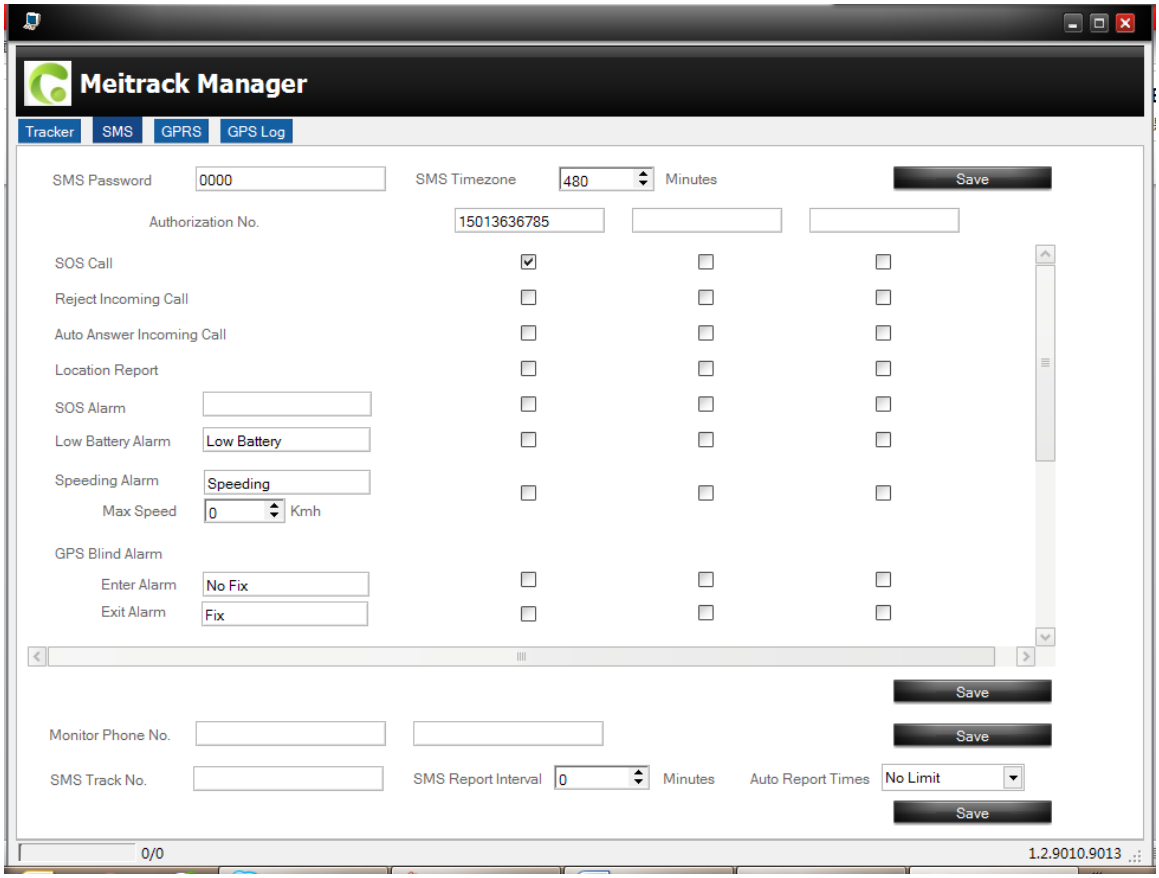
4.5.1 SMS Tracking

Select Tap II: SMS Tracking



Item	Description
User Password	0000 SMS password for sending SMS commands ,defaulted as 0000.
SMS Time Zone	Default time zone of the tracker is GMT 0. You can use this comment to correct it to your local time for SMS report. Time zone of SMS report and GPRS data package report is independent. = 0, GMT 0 (default); = [-32768,32767], set time difference in minutes to GMT. Example: Beijing Time(China)=480.
Authorization Phone Number	Authorize phone number(s) for receiving SMS reports and select events to be included in the SMS.
Press SOS to Call	Press SOS to call the authorized phone.
Reject Incoming Call	Reject when the authorized phone calling in
Auto Answer Incoming Call	Auto answer the incoming authorized phone call for conversation via SOS without press.
Report Location after Calling in	Report location via SMS after the incoming call is hung up.
	Send SMS alarm to the authorized phone number when press SOS button. SMS text defaulted as ”Call

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SOS Alarm	the police”
Low Battery Alarm	Send SMS alarm to the authorized phone number when voltage of the inbuilt battery is below 3.5V. SMS text defaulted as ”Low battery”
Speeding Alarm	Send SMS alarm to the authorized phone number when the speed of tracker exceeds the preset max speed. SMS text defaulted as ”Speeding”
GPS Blind Area Alarm	Enter Alarm: Send SMS alarm to the authorized phone number when tracker enter into GPS blind area or can’t receive GPS signal. SMS text defaulted as ”Not Fix” Exit Alarm: Send SMS alarm to the authorized phone number when tracker exits GPS blind area or receive GPS signal. SMS text defaulted as ”Fix”
Sleep Mode	Enter Alarm: Send SMS alarm to the authorized phone number when tracker enters into sleep mode. SMS text defaulted as ”Sleep” Exit Alarm: Send SMS alarm to the authorized phone number when tracker wakes up from sleep mode. SMS text defaulted as ”Not Sleep”
Distance Interval Alarm	Send distance interval report to the authorized phone number when tracker reaches the preset distance. SMS text defaulted as” Distance Interval Alarm”.
Reboot	Send SMS alarm to the authorized phone number when tracker reboots.
Geo-fence Alarm	Geo-fence is a circle with preset radius. Maximum of 8 Geo-fence waypoints can be set. Enter Alarm: Report sent when tracker enters Geo-fence. SMS text defaulted as “Enter GEO”. Exit Alarm: Report sent when tracker exits Geo-fence. SMS text defaulted as “Exit GEO”. Add New Fence: Set radius latitude and longitude, or draw Geo-fence on map directly in circles.
Monitor Phone No.	Authorize phone numbers to make silent calls to the tracker. The tracker will answer automatically. There is no voice indication when the call is in progress. Max 2 monitor phone numbers, with 16 characters each. If no preset phone number, the value is left empty (default).
SMS Track No.	SMS Tracking Number: Authorize phone numbers to receive SMS report by time interval. SMS Interval Time: Report location by SMS time interval. = 0, cancel tracking by time interval (default); = [1,65535], tracking by interval in minute. Report times: = no limit, unlimited times for report. = [1,255], it will stop reporting when reaching preset value.
Save	Write the preset parameter into the tracker. If you don’t want to change settings in other columns, please press this written button.

4.5.2 GRPS Tracking and Buzzer Reminding Configuration

Select Tap III: GRPS/Buzzer

Both GRPS and Buzzer can be configured separately.

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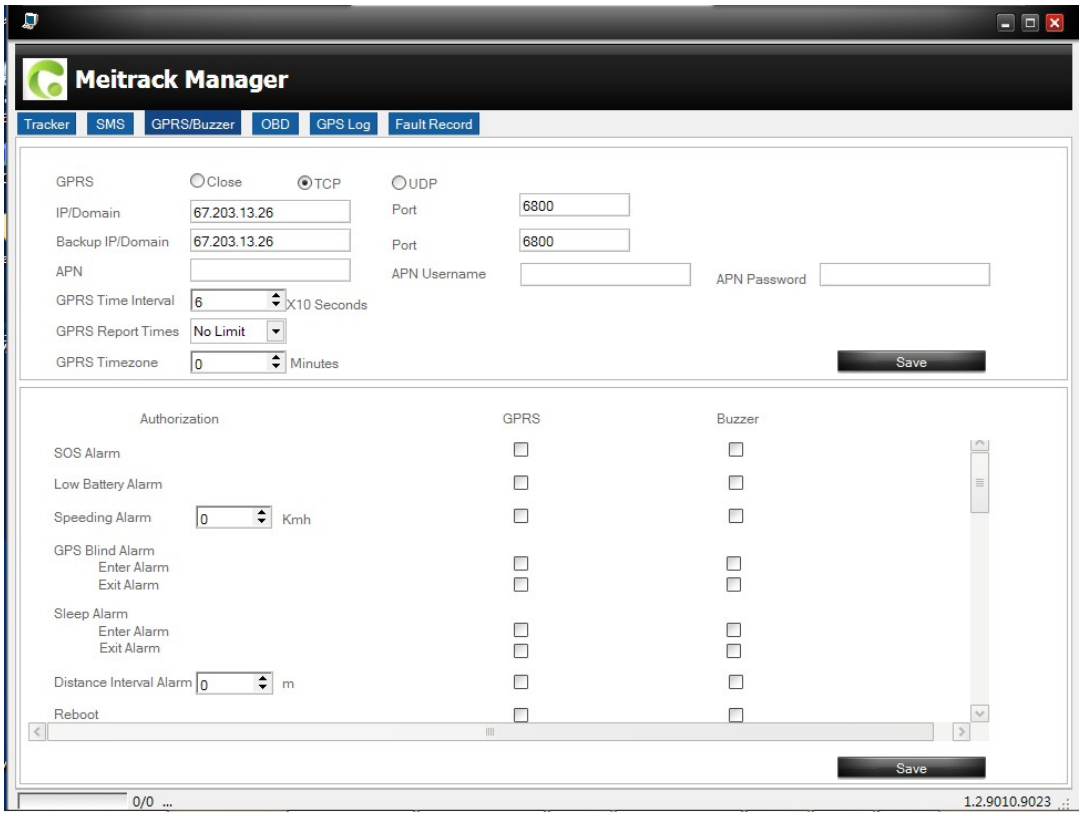

Item	Description
GPRS Connection Mode	Close: Enable GPRS TCP: Stable mode. It is recommended (Default). UDP: UDP can save data flow, while it is unreliable.
IP/Domain and Port	Set your main server's IP and port. Default IP: 67.203.13.26 Default Port : 6800
Backup IP/Domain and Port	Backup server's IP and port to avoid losing data when main server is down.
APN, APN Username, APN Password	Max 32 bytes. If no username and password, leave them blank. China Mobile APN: CMNET, China Unicom APN: NINET, no username and password. APN set default value as CMNET, APN user name and password as blank, so CMNET users can use device once it insert the card with GPRS function.
GPRS Time Interval	Track by time interval via GPRS Set time interval for GPRS tracking, unit in 10 seconds (fill in 6 means 60 seconds) = 0, cancel GPRS tracking by time interval; max time interval = 65535*10 seconds. Default setting of GPRS interval time is 6*10s.
GPRS Report Times	= 0, no limit, unlimited times for report (Default); = [1,65535], set report times, tracker will stop reporting when reaching the preset times.

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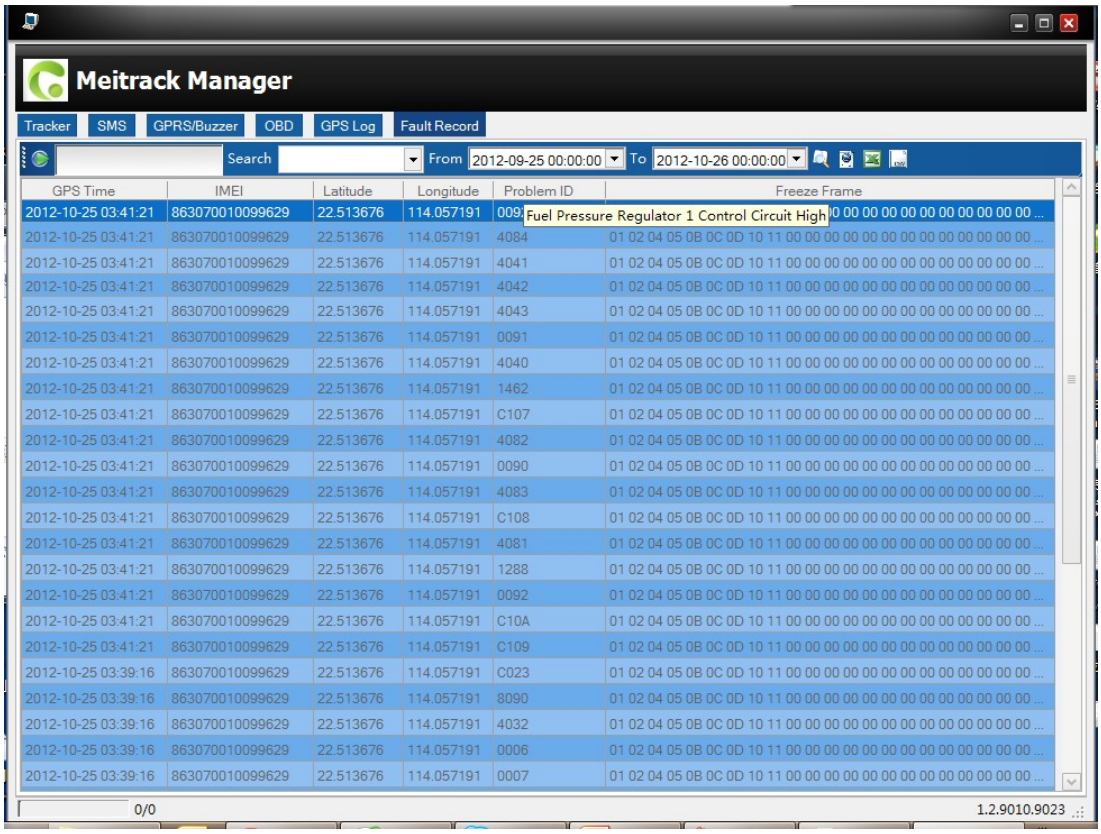
GPRS Time Zone	GPRS time zone minute = 0, GMT 0 (Default) GPRS time zone minute = [-32768,32767], set different time zones.
Save	Write current settings into the tracker.

4.5.3 Fault Record

Steps:

1) Click , TC68 will record the previous fault code from the car to the Meitrack Manager.

2) Select TC68 from "Search" and the period, click . All fault records of this period will be shown. If no data, it means there is no fault of this car.



3) Select one "Freeze Frame ", you will find a list of data string of the fault, which will help Maintenance technician to analyze & solve the fault accordingly. If there are several fault codes appears, TC68 will record the most advanced freeze frame, such as: Security System Freeze Frame>Power System>Comfort System

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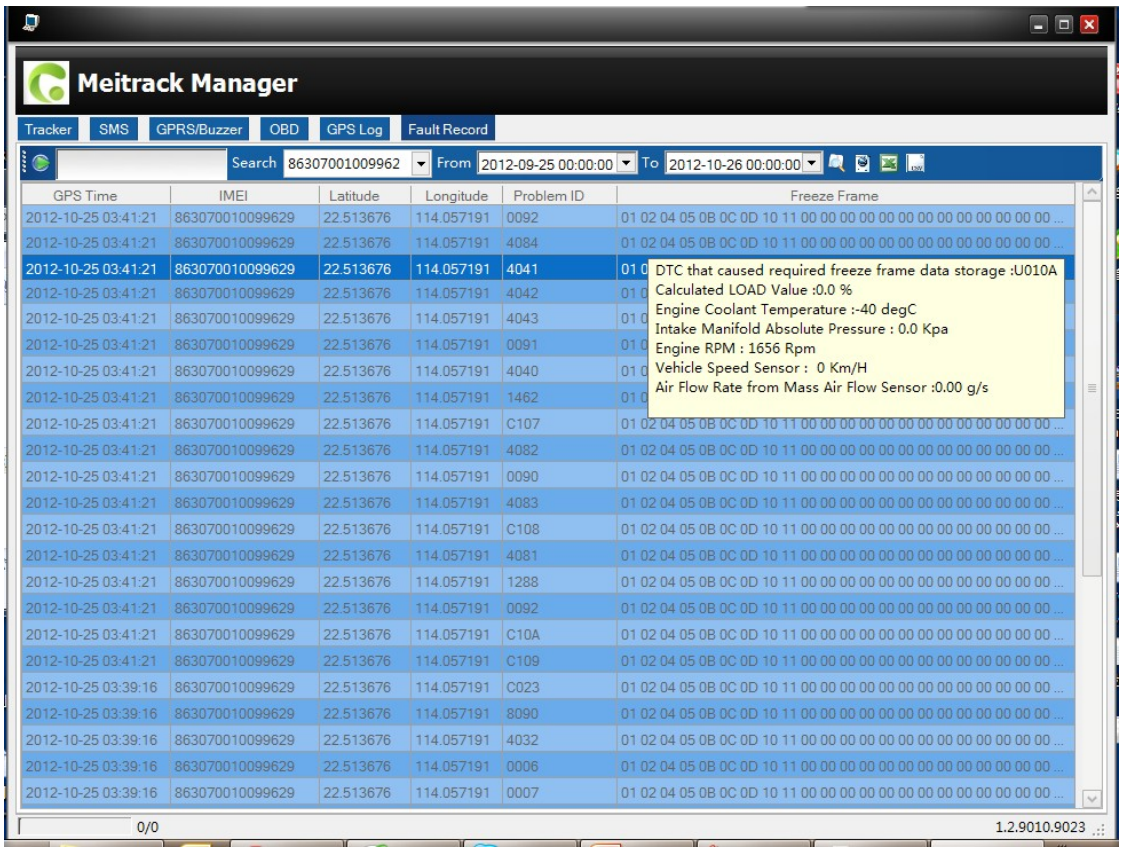

4) Please save fault record in EXCEL, print it out and take it to 4S shop for repairing. This record will help you avoid unnecessary repaired fee from 4S shop.

Please refer to MEITRACK SMS Protocol and MEITRACK GPRS Protocol, if you want to know more GPRS Setting.

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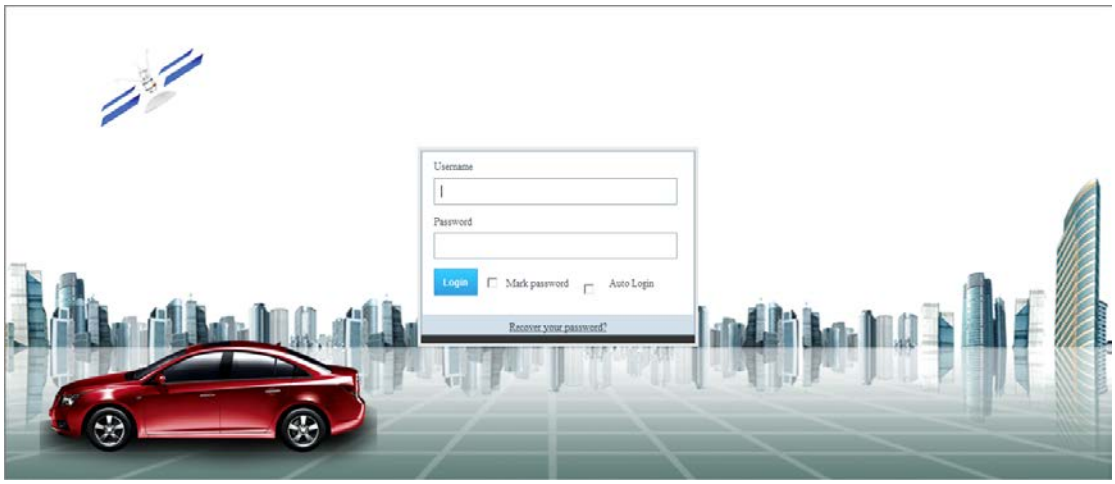
4.6 Platform Tracking

Please use your TC68's IMEI as account name and 0000(default) as password to login Meitrack OBD tracking system.



5. TC68 Installation

The TC68 is a plug and play (PnP) model, simple and without wiring required.

After plugging the TC68 to the car connector, it will sound BI one time, and all LEDs will begin blinking. This indicates a successful connection.

Please ensure the device is firmly connected to avoid movement later on.

5.1 Plug Car Connector Directly

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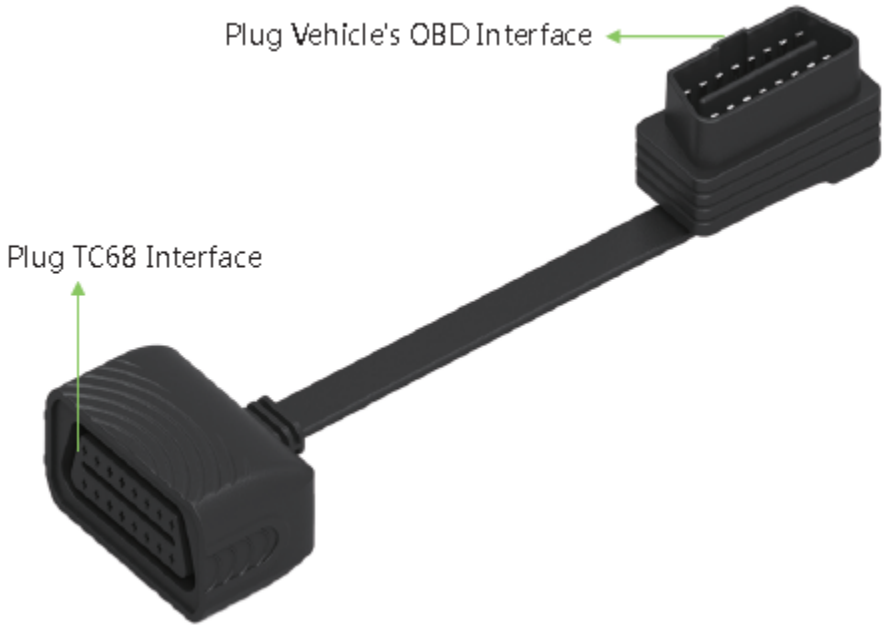
5.2 Use the Extension Cable to Install (Optional)

Use the extension cable on the condition of narrow space for installation, weak GPS signal, or for hidden purpose. When install the extension cable, please plug the male connector to Car's OBDII interface, plug the female connector to the TC68.

- Affix two small suede Velcro to TC68's labeled surface and the surface of the extension cable.
- Plug the male connector of the extension cable to the car OBDII connector.
- Find a hidden space under the dashboard, and affix the biggest surface of Velcro to the car.
- Affix TC68 with Velcro directly to the car Velcro.

You can use other way such as tie wraps to fix the unit to the vehicle, provided there is sufficient space.



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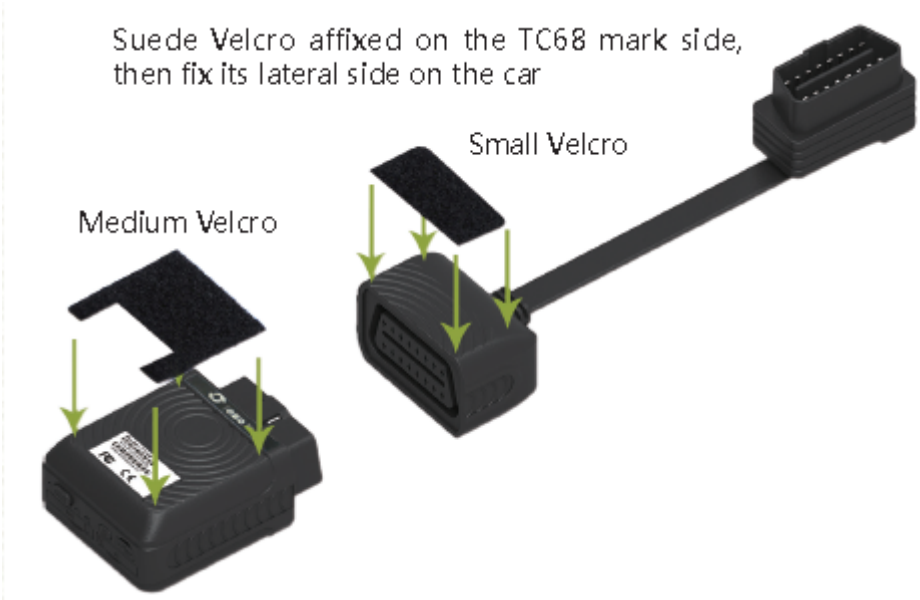

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6. Applicable Type of Vehicles

TC68 is suitable for all vehicles with OBDII/EOBD connector. Include but not limited to below vehicles.

1. American gasoline vehicles sold after 1996, vehicles made-in-china sold after 2003.
2. European vehicles sold in 2001 and produced in 2000; Diesel vehicle sold in 2004 and produced in 2003.

Following vehicles were tested with TC68 for your reference.

No.	Brand	Model	Year	Speed	RPM	Water Temperature	Fuel Consumption /100km	Mileage	Remain Fuel	Fault Code & Freeze Frame
1	Audi	A6L	2009	√	√	√	√	√	-	√
2	Audi	Q5	2011	√	√	√	√	√	-	√
3	BMW	530i	2000	√	√	√	√	√	-	√
4	BMW	530i	2011	√	√	√	√	√	√	√
5	Porsche	Cayenne	2013	√	√	√	√	√	√	√
6	Benz	ML350	2012	√	√	√	√	√	√	√
7	Benz	R300	2011	√	√	√	√	√	√	√
8	Honda	CRV	2009	√	√	√	√	√	-	√
9	Honda	Odyssey	2006	√	√	√	√	√	-	√
10	Honda	City	2011	√	√	√	√	√	-	Testing
11	Honda	Civic	2005	√	√	√	√	√	-	√
12	Honda	Accord	2004	√	√	√	√	√	-	√
13	Honda	Accord 3.5L	2010	√	√	√	√	√	-	Testing
14	Honda	Accord	2010	√	√	√	√	√	-	√
15	Buick	GL8	2004	√	√	√	√	√	-	√
16	Buick	GL8	2006	√	√	√	√	√	-	√
17	Buick	LaCrosse2.4L	2012	√	√	√	√	√	√	Testing
18	Buick	LaCrosse	2009	√	√	√	√	√	√	-
19	Volkswagen	Bora	2012	√	√	√	√	√	-	√
20	Volkswagen	POLO	2007	√	√	√	√	√	-	√
21	Volkswagen	Jetta	2011	√	√	√	-	√	-	Testing
22	Volkswagen	LAVIDA	2011	√	√	√	√	√	-	√
23	Volkswagen	Tiguan	2011	√	√	√	√	√	-	√
24	Volkswagen	Touareg	2007	√	√	√	√	√	-	√
25	Peugeot	207	2011	√	√	√	√	√	-	Testing
26	Dongfeng Peugeot	307	2010	√	√	√	√	√	-	√
27	Toyota	Alphard	2011	√	√	√	√	√	-	√
28	Toyota	Corolla	2006	√	√	√	√	√	-	√
29	Toyota	Matrix XRS	2005	√	√	√	√	√	-	√
No.	**Brand**	**Model**	**Year**	**Speed**	**RPM**	**Water**	**Fuel**	**Mileage**	**Remain**	**Fault Code &**

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						Temperature	Consumption /100km		Fuel	Freeze Frame
30	Toyota	SCION xB	2008	√	√	√	√	√	-	√
31	Ford	Focus	2012	√	√	√	√	√	-	√
32	Geely	EMGRAND	2010	√	√	√	√	√	√	Testing
33	JAC	Refine	2006	√	√	√	√	√	-	√
34	JAC	Refine	2008	√	√	√	√	√	-	√
35	Jaguar	S-TYPE	2009	√	√	√	√	√	√	√
36	Suzuki	SX4	2009	√	√	√	√	√	-	√
37	Chery	A516	2007	√	√	√	√	√	-	√
38	KIA	K2	2012	√	√	√	√	√	-	√
39	KIA	New Carens	2011	√	√	√	√	√	-	√
40	Nissan	Livina	2009	√	√	√	√	√	-	√
41	Nissan	Teana	2006	√	√	√	√	√	-	√
42	Nissan	Xterra	2005	√	√	√	√	√	-	√
43	Volkswagen	Santana2000	2009	√	√	√	√	√	-	√
44	Chevrolet	Cruze	2010	√	√	√	√	√	√	√
45	Chevrolet	Malibu	2013	√	√	√	√	√	√	√
46	BYD	F3	2011	√	√	√	√	√	-	Testing
47	Changan Star	SC6335G	2008	√	√	√	√	√	-	Testing
48	Soueast	DELICA -DN6492L3PB	2007	√	√	√	√	√	-	Testing
49	Roewe	550S	2012	√	√	√	√	√	-	Testing

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