

# Vehicle GPS Tracker (GPS+GSM+SMS/GPRS)

## GT02D User Manual (Version 9.9)



Thank you for purchasing the tracker. This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

## **1. Summary**

Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet.

Overview of the characteristics:

1. GPS position.
2. GSM 850/900/1800/1900MHZ.
3. Wide voltage range:9-40V.
4. Oil-cut function.
5. GEO-Fence alarm.
6. ACC alarm.
7. Vibration alarm.
8. Power-Cut alarm.
9. Overspeed alarm.

## **2. Accessories:**

Power line:



Relay:



Manual:



Screws:



### 3. Spec:

- 1) .GSM: 850/900/1800/1900MHZ
- 2) .GPRS: Class12, TCP/IP
- 3) .Working Voltage: 9-40V DC
- 4) .Working current:  $\approx 22\text{mA}$  (12VDC)
- 5) .Working current:  $\approx 12\text{mA}$  (24VDC)
- 6) .GPS locating time: Cold start  $\approx 38\text{s}$  (Open sky)  
  
Warm start  $\approx 32\text{s}$   
  
Hot start  $\approx 2\text{s}$  (Open sky)
- 7) .GPS Precision: 10m (2D RM)
- 8) .Working temperature:  $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- 9) .Working humidity: 20%~80%RH
- 10) .Measurement: 90(L) x 45(W) x 13.5(H) mm

## 4. Device status indicators

Power Status (Red LED)	
Continuously Bright	External Power Connected
Continuously Dark	External Power Cut-off
GPS Indicator (Blue LED)	
Continuously Bright	GPS Unfixed
Flashing	GPS Fixed
GSM Indicator (Green LED)	
Continuously Bright	No GSM Signal
Flashing	GSM Signal OK

## 5. Installation

### 5.1 Preparation before installation

5.1.1 Open the packing box to check whether the type of device is correct and whether the accessories are included.

5.1.2 This product is a high-tech electronic device, installation should be undertaken by a professional.

5.1.3 Please follow the following procedures to install your GT02D. During installation, there should be no power to the device.

5.1.4 Installing SIM card:

The device need to insert a SIM card which support GSM 2G network. The SIM card used should be enabled for GPRS.

- 1) Testing SIM card: to test SIM card, please install it into a normal GSM mobile and ensure it can send and receive SMS, and enables for GPRS.
- 2) Installing SIM card: Remove the upper cover of device, insert SIM card as shown then replace cover, lock the shell with 4 bolts



5.2 Installation

The GPS tracker must be installed under professional personnel.

Note:

- 1) Please install the device in the hidden place as followings:  
Under Front windshield;  
In the front instrument panel;  
Under back windshield;
- 2) Avoid being placed with signal radiators like reverse sensor ;
- 3) The device has GSM antenna and GPS antenna inside. Please ensure the receiving side of the device is face up and without metal cover.

Note: The metal cover will lessen the receiving of GPS signals.

### 5.3 Selecting installation place and fixing it.

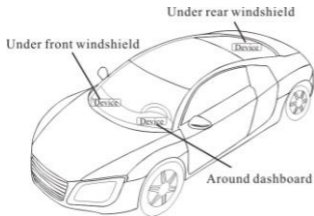
There are two kinds of installation: covert and non covert.

5.3.1 If you need the covert installation, please refer installation to an auto electrical contractor.

Note:

- 1) To prevent theft of the GT02D, the device should be installed as covertly as possible.
- 2) Avoid placing the GT02D close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment.

- 3) The GT02D should be fixed into position with cable ties or wide double-side tape.
- 4) Your device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The following places are suggested for installation:



Under the dash board below the front windshield;

- In the parcel shelf in the rear;
- In the front bumper( non-material face), please ensure the device cannot get wet;
- Under the wiper version (non-metal), please ensure the device cannot get wet;



Notice: If the windshield is pasted with metal thermal-protective coating, it may affect the performance of the device. In this case, please change the installation place after consulting the professional.

### 5.3.2 Non Covert Installation,

Firstly fix the device on the dash board below windshield.

- In the parcel shelf in the rear;
- In the front bumper( non-material face), please ensure the device cannot get wet;
- Under the wiper version (non-metal), please ensure the device cannot get wet;

Notice: If the windshield is pasted with metal thermal-protective coating, it may affect the performance of the device. In this case, please change the installation place after consulting the professional.

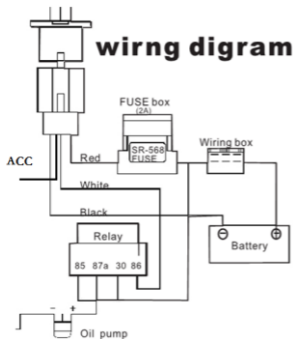
## 6. Device wiring requirements

**6.1** The device power supply is DC 9-40V. The red line is positive pole while

the black line is negative pole.

**6.2** The negative pole of power supply connects with ground or the metals. Please do not connect with other ground lines.

**6.3** When finishing the power supply wire connection, please make the plug of power supply to the device.



## 7. The Device Working

### 7.1 Power on:

Connecting to the power, then switch on the device (in the board of the tracker, there a switch). The 3 LED will light. The device will upload the data to the online platform by Sim card, the default data-upload time interval is 15seconds. When the car is in static state for 5 minutes, the device will come in energy saving mode.

**7.2** Power off: Pull off the power wires plug then switch off the device.

## 8. User Settings

### 8.1 SMS Commands Instruction

1)Center Number		
Text command	Parameter	Sample
CENTER Add	710#number#	710#008613500135000#
	711#number#	711#008613800138000#
CENTER Del	D01#	D01#
	D02#	D02#
Command Description	<p>1)Center numbers can control the oil and power and resume factory setting</p> <p>2) Center numbers can receive the call and text of Alarms from tracker</p> <p>3) Only 2 numbers can be center numbers.</p> <p>4) The number should be your mobile phone number, should not be the sim card number in the tracker.</p> <p>5) Please add country code, for example, send SMS as:</p>	

	710#008613800138000#, 0086 is China code.
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<b>2) View Administrator Number</b>		
Text command	Parameter	Sample
View	901#	901#
Command Description	This SMS command is used to view Device center number.	
Command Feedback	Successful reply: Admin1:  Admin2:	

<b>3) Authorized Number Set</b>		
Text command	Parameter	Sample
Authorized	101#number#	1: 101#008613800138000#
Add	102#number#	2: 102#008612345678912#
	103#number#	3: 103#008612345678912#

Authorized	D11#	D11#
Del	D12#	D12#
	D13#	D13#
Command Description	<p>1) Authorization number for SMS control oil.</p> <p>2) only three numbers to set the authorization number</p> <p>3) The number should not be sim card number in the tracker.</p> <p>4) Please add country code, for example, send sms as: 710#008613800138000#</p>	
Command Feedback	<p>Successful Setting: Add Authorization account 1</p> <p>OK!</p>	

#### 4) View Authorized Number

Text command	Parameter	Sample
View	C10#	C10#

authorized		
Command	This directive is used to view the equipment	
Description	authorization numbers	
Command	Successful Setting:	
Feedback	Authorization 1:	
	Authorization 2:	
	Authorization 3:	

<b>5)APN Setting</b>		
Text command	Parameter	Sample
APN Setting	802#username#pass word#	1: 802#intenet#123#123# 2: 802#internet#
Command	APN differs according to the local telecom operators.	
Description	For example: APN request password, please refer to Sample 1, and Sample 2 for no password.	
Command	Successful Setting: SET APN OK!	

Feedback	
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<b>6) Set / View Server</b>		
Text command	Parameter	Sample
SERVER	803#SERVER#port#	803#47. 90. 39. 27#6100#
Parameter		803#gps.dyegoo.net#6100#
View SERVER	804# CIP#	804# CIP#
Command Description	Change the IP and port when move to a new server port: 10~65535	
Command Feedback	Successful Setting: set IP OK!	

<b>7) Moving Time Interval</b>		
Text command	Parameter	Sample
TIMEER	730#uploading interval#	730#20#

Parameter setting		
Command Description	Time scope: 0, 10~60 seconds; 0, no data uploading; 10~60, means time interval; the default value is 15 seconds.	
Command Feedback	Successful Setting: SET TIMER OK!	

<b>8)Static Time Interval</b>		
Text command	Parameter	Sample
STATIC	731#time interval#	731#5#
	SUP#time interval#	SUP#5#
Command Description	Range: 1~60 minutes; The device has 3D transmission and the default time interval are 5 minutes.	
Command	Successful Setting: SET STATIC TIME OK!	



Feedback	
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<b>9) Cancel the continuous upload</b>		
Text command	Parameter	Sample
NUP	740# NUP#	740# NUP#
Command Description	<p>This command is used to cancel sending data to the platform</p> <p>If need to restore the uploading, please set upload interval time setting.</p>	
Command Feedback	SET OK!	

<b>10) Power-Cut</b>		
Text command	Parameter	Sample
RELAY	222#	222# cut off oil and power

Parameter1		
RELAY Parameter2	333#	333# recover oil and power
Command Description	The device only cut off the oil circuit on the condition of the driving speed below 20KM/H or in static state.	
Command Feedback	Cut Oil OK The speed is high Cut Oil fail Recovery Oil OK	

<b>11) GMT</b>		
Text command	Parameter	Sample
GMT	801#TIME ZONE#	801#E8# 801#W5#
Command Description	The default time zone is 0.	

## 12)Vibration Alarm (Default: Closed)

Text command	Parameter	Sample
VIBRATION Parameter	123#2#alarming way#	1) 123#2#3#
Set come into vibration alarm time	V123#2#	1) V123#2# 2) V123#1#
Enable vibration Alarm	911#	911#
Disable vibration Alarm	456#	456#
Command Description	the sensitivity value of the vibration is from 1 to 5, 1 is the most sensitive and 0 is close. Alarming ways: 1, calling 2, texting, 3 calling and texting.	

Command Feedback	set vibration alarm level, OK!
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<b>13)ACC Alarm (Default: Closed)</b>		
Text command	Parameter	Sample
Enable	840#Alarming Way#	840#1# 840#2# 840#3#
Disable	840#0#	840#0#
Command	It can not be set when ACC on. Reply: ACC (set up fail! pls turn off ACC)	
Description	Alarming ways: 1, calling 2, texting, 3 calling and texting.	
Command	open ACC alarm OK	
Feedback	close ACC alarm OK	

<b>14)ACC Alarm &amp; Vibration Alarm Open/Close</b>		
Text command	Parameter	Sample

Enable	110#	110#
Disable	111#	111#
Command Description	This command is used to control ACC Alarm and vibration Alarm at the same time. (When ACC is high, please refer to 13 ACC alarm) both alarms are in Alarming way 3.	
Command Feedback	Open ACC & Vibration Alarm OK Close ACC & Vibration Alarm OK	

### 15)Over-Speed Alarm (Default: Closed)

Text command	Parameter	Sample
SPEEDING Parameter	667#120#alarming way# SSA#120#alarming way#	1)667#120#3# 667#120# 2)SSA#120#3# SSA#120#
Command Description	The speed scope is form 60-220, if the speed is no this cope, the alarm is off.	

	Alarming : 1, calling 2, texting, 3 calling and texting.  Must set the center number.
Command  Feedback	Set speed-2 OK / Cancel speed OK

16) GEO-fence Setting		
Text command	Parameter	Sample
Setting	920#radius#way#	920#1#2#
Cancel	921#	921#
Command  Description	Setting Geo-fence alarm, radius from 1-100, Unit: 100 meter.  Alarming : 1, calling 2, texting  Out Geo-fence 1 time, the Geo-fence canceled.	
Feedback	Set Enclosure-2 OK / Cancel Enclosure OK	

<b>17) Reset</b>
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Text command	Parameter	Sample
RESET	930#	930#
Command Description	Reset the device	
Command Feedback	Successful Setting: Reset system, ok!	

<b>18) Factory</b>		
Text command	Parameter	Sample
Parameter	940#	940#
Command Description	Restore the factory setting  Only center number can initial this function  Factory setting will recover to the original setting	
Command Feedback	Successful Setting: FACTORY OK!	

<b>19)Language Setting</b>		
Text command	Parameter	Sample
LANG	LANG1#	LANG1# 1:CHINESE,
Parameter	LANGO#	LANGO#: ENGLISH
Command Description	: When check the location, it will reply the Chinese location in Chinese language setting; while reply the URL link when in English language setting.	
Command Feedback	Successful Setting: SET LANG OK!	

<b>20)Position</b>		
Text command	Parameter	Sample
WHERE	988#	988#
Command Description	Check the longitude and altitude and other information of the device	
Command	Reply with longitude and altitude, speed and IMEI.	



Feedback	
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<b>21)Google Link</b>		
Text command	Parameter	Sample
WHERE	666#	666#
Command Description	Reply Google link with Latitude, Longitude, IMEI, ETC.	
Command Feedback	Google Link	

<b>22)Version</b>		
Text command	Parameter	Sample
VERSION	V00#	V00#
Command Description	The command is to check the software version	

Command	VERSION:xxxx
Feedback	BUILD:2018-07-05 10:12

<b>23) Parameter Check</b>		
Text command	Parameter	Sample
Parameter	886#	886#
Command Description	The command is to check the settings and the default parameter.	
Command Feedback	IMEI:351190012535936  APN : cmnet  IP:IP and port  TIMER: moving uploading interval  STATIC: static uploading interval  CENTER: center number  LANG: language (CN/EN)  GMT: time zone (E/W8)	

<b>24) Status Check</b>		
Text command	Parameter	Sample
Status	902#	902#
Command Description	The command is designed for checking the device' s working status.	
Command Feedback	External power:ON/OFF  GSM Signal:HIGH/MIDDLE/LOW  GPS:FIXED/UNFIXED  RELAYER:DISABLE/ENABLE  Vibrate Warning:ON/OFF  Pause:ON/OFF	

<b>25) Set Low-battery/External power Alarm(Default Enabled)</b>		
Text command	Parameter	Sample
Disable	555#	555#
Enable	556#	556#
Command Feedback	close low/Disconnect power OK  Open low/Disconnect power-2 OK	

## 9. Platform

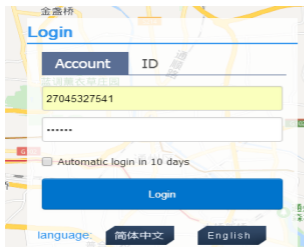
Website: <http://www.dyegoo.net>

Please click English to change to English language.

Login as Account or ID, Account is same as ID(IMEI last 11bits),ID is in the label on the tracker.

Enter ID(IMEI last 11bits)

Password:123456



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### Login

Account ID

27045327541

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Automatic login in 10 days

Login

language: 简体中文 English

APP: <http://www.dyegoo.net/app/>



When download, please click UK flag to change to English.

For some Android mobile phone, it is needed to install GoogleServicesFramework.apk, if there no this APK, it can not display google maps in APP.

Please search GoogleServicesFramework.apk by google and install it first, then install DYEGOO Google maps app.

In production, IP, port have been written in, normally the tracker will be auto online, if the tracker offline, Please set APN by sms command.

**Please get APN from mobile operator of sim card inserted in the tracker.**

If you lost IP, port, please send below sms command by admin number to set them back:

803#gps.dyegoo.net#6100#

Or

803#47.90.39.27#6100#

## 10. Trouble shooting

**10.1** The device is not online or offline on the web platform.

**10.1.1** First, please check the three LED working state. If possible. You can call the device's number to check.

- If not connected, the device is out of signal. If the GSM signals cannot reach your location, please drive to the open sky.
- If reminding the device SIM card is out of deposit, please make deposit by the telecom operator.
- If you can connect to the device when calling, the SIM card has deposited and please check with your operator for GPRS function. You also can check by searching the internet on your mobile phone.
- If reminding the device is power off, please turn back the device and proceed as followings:
  - a) Check if the red LED is in flashing. If the LED is dark, please check the power connecting. If fuse is broken, please return the

device to the seller.

b) If the green GSM LED is not in constant flashing, please check the installation of SIM card.

c) If the blue GPS LED is not constant light, it means GPS signal can not be received well, please check installed position. GPS signal only can be received out of the room and face to sky.

**10.1.2** Please check the offline area in order to judge if the network problem of operators.

**10.2** When GPS can not receive the signals, please drive in the open sky and ensure there is no metal things on the device.

**10.3** When the device can not receive the GSM signal, please check the SIM card installation. If the GSM signals can not reach your location (such as the basement), please drive to the open sky.