GPS Vehicle tracker
(GPS+GSM+SMS/GPRS)

GT02N User Manual
(Version 2.1)

Thank you for purchasing the tracker. This manual shows how to operate

the device smoothly and correctly. Please 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. GSM 850/900/1800/1900MHZ.

2. GPS position.

3. Auto set APN.

4. 180Mah Battery inside, Power-Cut alarm.

5. Motion detect, save GPRS flow and power.

6. GEO-fence Alarm.

7. SOS Alarm.

8. Vibration Alarm.

9. ACC Alarm.

10. Speed Alarm

11. Voice Surveillance.

12. Voltage Range: DC 10V-40V.

13. Enginee Cut off.

2. Accessories：

Power line:

Relay:

Microphone:

SOS line:

Manual

3. Specs

1）.**GSM**：850/900/1800/1900MHZ

2）.**GPRS**：Class12, TCP/IP

3）.**Working Voltage**：10V-40V DC

4）.**Working current**：≈22mA (12VDC)

5）.**Working current**：≈12mA (24VDC)

6）.**GPS locating time**：Cold start≈38s（Open sky）

      Warm start≈32s

      Hot start≈2s（Open sky）

7）.**GPS Precision**：10m（2D RM）

8）.**Working temperature**：-20℃～+70℃

9）.**Working humidity**：20%～80%RH

10）.**Measurement**：97（L）×50（W）×15（H）mm

4. Wire defined

The 2pins orange plug connect with SOS line

The 2pins blue and green plug connect with microphone.

The 4pins plug connect with power line.

For 4pins power line:

The red wire connect with power DC12V+

The black wire connect with power DC12V-

The white wire from tracker connect with yellow line from relay, the white line from relay connect with power DC12V+.

Then cut the power + wire of pump to 2 sides.

Every side connect with relay green line.

5. Device status indicators

5.1 Connect DC 10-40V power supply, push the switch (switch beside the SIM card holder), the red LED will light continuously.

5.2 The blue LED light continuously when searching the GPS signal. Once GPS fixed, the blue LED will be flashing.

5.3 The intermediate green LED (GSM signal state) GSM signal is normal, green LED flashing. No GSM signal, the green LED light continuously.

6. Installation

6.1 Prepare for installation

6.11 Product Check. Open the packing box and check the device's model

and accessories. If the model is wrong or the accessories not complete, please contact the dealer.

6.12 Choose SIM card. Please insert a SIM card which support GSM 2G network to the device. Please take dealer's advice as reference.

6.13 SIM card installation. Discharge the cover of the device and uncover the SIM card holder. Then insert the SIM card and cover SIM card holder (as follows).

6.14 Open the cover, Push the switch. Then Put back the front cover.

6.15 Connect the device to the 10V~40V power supply.

**6.16** Install the device in the hidden place of the car;

The SIM card must be with GPRS function and enough deposit. If your SIM card need input PIN when power on, please cancel it.

6.2 Installation

The GPS tracker must be installed under professional personnel.

Note:

1) Please install the device in the hidden place as followings:

Under rear windshield

Under front windshield

Device

Device

Around dashboard
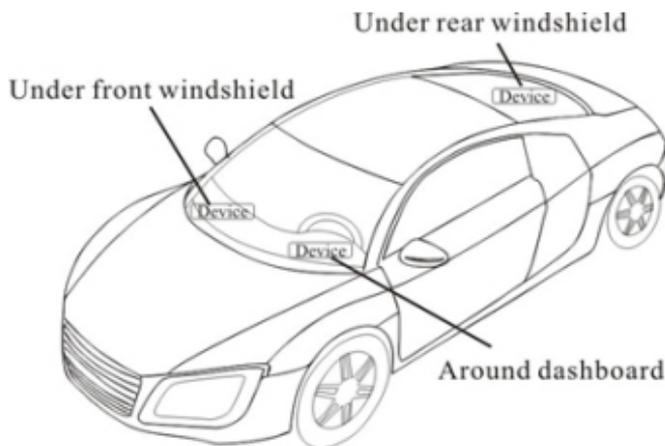
2) Avoid being placed with signal radiators like reverse sensor ;

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.

7. Device wiring requirements

7.1 The device power supply is DC 10V-40V. The red line is positive pole while the black line is negative pole.

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

7.3 When finishing the power supply wire connection, please make the plug of power supply to the device, the switch beside sim card holder.

2A FUSE   fuse box

12V or 24V   Storage battery

Green

Connect to
SOS button

ON   START
ACC
OFF   Ignition
key

Connect to
microphone

Relay

White

pump
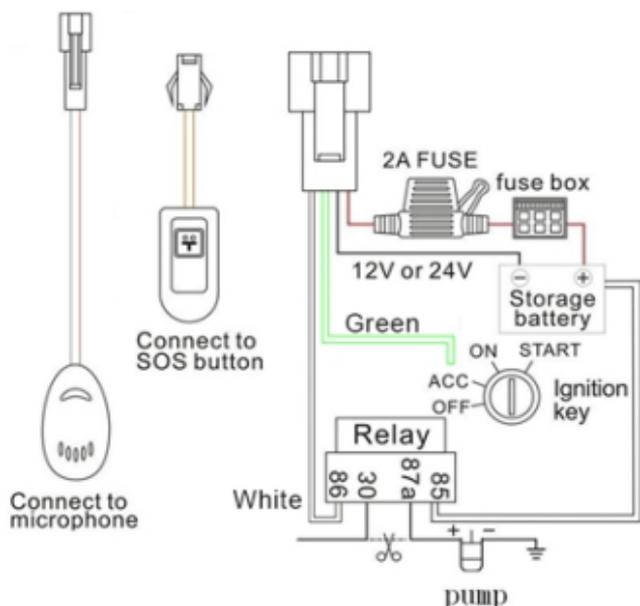
8. The Device Working

8.1 Power on: Connecting to the power. Then the three LED indicators will

light. The device will upload the data to the online platform

(the default interval of uploading data is 15seconds). When

the car is in static state for a long time, the device will be

in energy saving mode.

8.2 Power off: Pull off the power plug then power off the device.

9. User Settings

9.1 SMS Commands instruction

1) Center Number		
Text command	Parameter	Sample
CENTER Add	710#number# 711#number#	710#13500135000# 711#13800138000#

CENTER Del	D01#	D01#
	D02#	D02#
Command Description	1) Center number can control the oil and power and resume factory settings 2) Center number can receive the call and text of vibration alarm and over speeding alarm. 3) SIM must display the income call number to control oil and power. 4) Only 2 number can be center number. 5) Change center number must resend the command.	
Command Feedback	Successful Setting: Add admin account 1 OK!	

2) View Center Number		
Text command	Parameter	Sample
View	901#	901#
Command Description	This directive is used to view Device Manager number.	

Command	Successful Setting: Admin1:
Feedback	Admin2:

3) Authorized Number Set		
Text command	Parameter	Sample
Authorized Add	101# number #	1: 101#13800138000#
	102# number #	2: 102#12345678912#
	103# number #	3: 103#12345678912#
Authorized Del	D11#	D11#
	D12#	D12#
	D13#	D13#
Command Description	1) Authorization number for SMS control oil. 2) Only three numbers to set the authorization number 3) Change the authorization number needs to delete the previous number	
Command Feedback	Successful Setting: Add Authorization account 1 OK!	

4) View Authorized Number

Text command	Parameter	Sample
View authorized	C10#	C10#
Command Description	This directive is used to view the equipment authorization number	
Command Feedback	Successful Setting: Authorization 1: Authorization 2: Authorization 3:	

5) APN Setting

Text command	Parameter	Sample
APN Setting	802#APN#username#password#	1: 802#intenet#123#123# 2: 802#internet#
Command Description	APN differs according to the local telecom operators. For example: APN request password, please refer to Sample 1, and Sample 2 for no password.	

Command Feedback	Successful Setting: SET APN OK!

6) Set Server

Text command	Parameter	Sample
SERVER Parameter	803#SERVER#port#	1. 803#gps.dyegoo.net#6100# 2: 803#47.90.39.27#6100#
View SERVER	CIP#	1) CIP#
Command Description	Change the IP and port when move to a new server port: 10~65535	
Command Feedback	Successful Setting: set IP OK!	

7) Moving Time Interval

Text command	Parameter	Sample
TIMEER Parameter	730#upload interval#	730#20#

setting		
Command Description	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!	

8) Static Time Interval

Text command	Parameter	Sample
STATIC	SUP#time interval#	SUP#5#
Command Description	Scope: 1~60 minutes; The default time interval is 5 minutes.	
Command Feedback	Successful Setting: SET STATIC TIME OK!	

9) Cancel the continuous upload

Text command	Parameter	Sample
NUP	NUP#	NUP#

Command Description	This command is used to cancel sending data to the platform If need again to restore the uploading, need to send TIMEER Parameter setting.
Command Feedback	SET OK!

10) Oil-Cut		
Text command	Parameter	Sample
RELAY Parameter1	222#	222# Cut off oil and power
RELAY Parameter2	333#	333# Recover oil and power
Command Description	1) RELAY control the start and closeness of the relay 2) Only the center number can operate. 3) The device only cut off the oil circuit on the condition of the driving speed below 20KM/H or in static state. 4) When send the command, the device will reply 'please waiting' When the vehicle speed is over 20KM/H, the device will cut	

	off the oil or the power when the speed below 20KM/H.
Feedback	Successful Setting: Fuel cut has already been completed OK!

11) GMT

Text command	Parameter	Sample
GMT	801#location time Zone#	801#E8# 801#W4#
Command Description	The default time zone is Beijing time. please operate according to the above command.	
Command Feedback	Successful Setting: Set time zone ok!	

12) Vibration Alarm

Text command	Parameter	Sample
Open Vibration	911#	911#

Alarm		
VIBRATION Parameter	123#sensitivity#alarming way#	1) 123#2#3#
Set into vibration alarm time	V123#2#	1) V123#2# 2) V123#1#
Cancel vibration alarm	456#	456#
Command Description	The sensitivity value of the vibration is from 1 to 5, 1is the most sensitive and o is close. Alarming ways: 1, calling 2, texting, 3 Calling and texting. Need set the center number and receiving number.	
Command Feedback	Set vibration alarm level, OK!	

13) **Speed Alarm**

Text command	Parameter	Sample
SPEEDING Parameter	SSA#speed#alarm way# Or 667#speed#alarm way#	1) SSA#120# 2) SSA#150#3# 1) 667#120# 2) 667#150#3#
Command Description	The speed scope is form 60-220, if the speed isnot in this cope, the alarm is off. Alarming : 1. calling, 2. texting, 3.calling and texting. Need set the center number and receiving number.	
Command Feedback	Successful Setting: set speeding alarm,OK!	

14) ACC Alarm		
Text command	Parameter	Sample
Open ACC Alarm	840#1#	840#1#

Close ACC ALARM	840#0#	

15) Reset		
Text command	Parameter	Sample
RESET	930#	930#
Command Description	Reset the device	
Feedback	Successful Setting: Reset system, ok!	

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

17) Language Setting

command	Parameter	Sample
LANG	LANG1#	LANG1# 1:CHINESE,
Parameter	LANG0#	LANG0#: 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.	
Feedback	Successful Setting: SET LANG OK!	

18) 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

19) **Position**		
Text command	Parameter	Sample
command	988#	988#
Command Description	Check the longitude and altitude and other information of the device	
Command Feedback	Reply with longitude and altitude, speed and IMEL.	

20) **Google Link**		
Text command	Parameter	Sample
command	666#	666#
Command Description	Check the location link of Google map	
Command Feedback	<Datetime:12-07-05 13:21:30> http://maps.google.com/maps?q=N22.540885,E113.95265	

21) Version		
Text command	Parameter	Sample
VERSION	VOO#	VOO#
Command Description	The command is to check the software version	
Command Feedback	VERSION:Xxxx BUILD:2012-07-05 10:12	

22) Param Check		
Text command	Parameter	Sample
PARAM	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)

23) Status Check

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	

24) Monitor (Voice Surveillance)-CALL BACK(default)

command	Parameter	Sample
SSS#	SSS#	SSS#
Description	Using Command Send this command to the tracker's number, the tracker	

	will call back to admin number.

25) Monitor (Voice Surveillance)-CALL

command	Parameter	Sample
Open Calling mode	SS1#	SS1#
Return to Call back	SS0#	SS0#

26)Wire-cut Alarm; Low Battery Alarm

command	Parameter	Sample
Disable	555#	555#
Enable	666#	666#

9.2 Platform

Website: http://www.dyegoo.net
Please click English to change to English language.
Login as Account or ID,ID is 11bits numbers, it is in the label on the tracker.

Enter ID

The default Password:123456

APP: Please search DYEGOO in Google store or Apple store.

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 sim card inserted mobile operator.
For example,if you are in Brazil, and the sim card in the tracker is from Claro.

Please send below SMS command to set APN:
802#java.claro.com.br#claro#claro#

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 constant glow. 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 glow, please check the installation of SIM card.

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

10.2 When GPS cannot receive the signals, please drive in the open sky and ensure there is no metal thins on the device.

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