

GPS Vehicle Tracker

User Manual (G1C)



This user manual has been specially designed to guide you through the functions and features of your GPS vehicle tracker.

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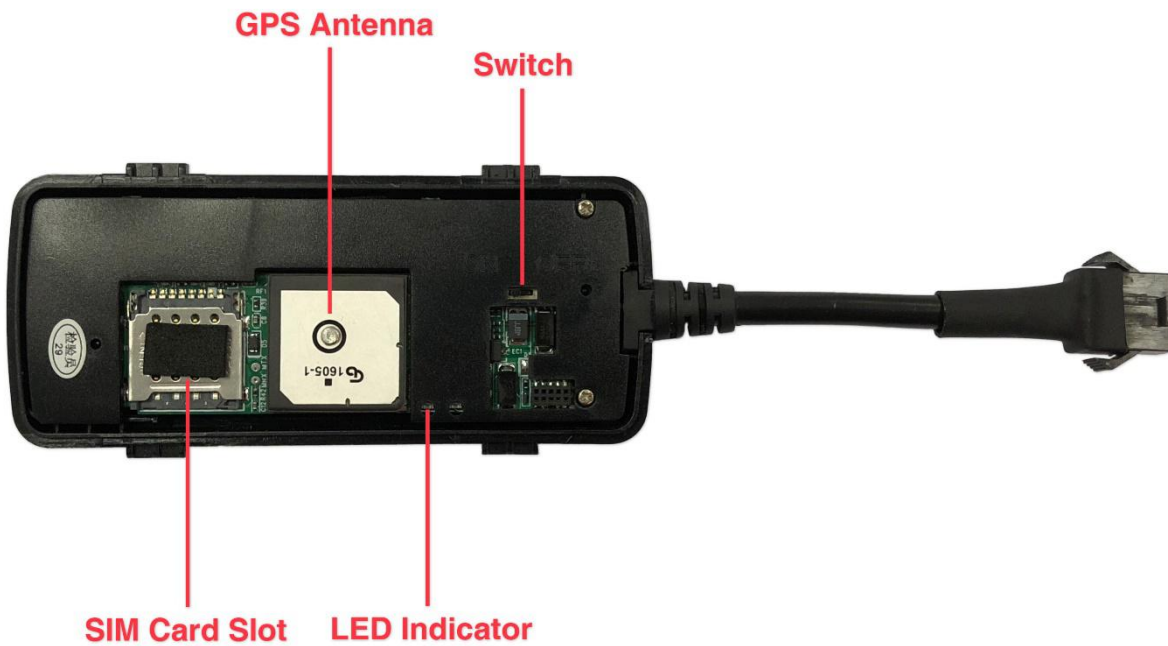
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1. Products Components and Port Definition

1.1 Product Introduction

Name	GPS Vehicle Tracker
Type	G1C
Size	86*41*12 mm

G1C Vehicle GPS Tracker is a practical and easy-to-use GPS tracker with small size and accurate location specially designed for vehicle tracking. It combines GPS+LBS communication technology. With EPO technology, this device can easily achieve extreme fast positioning.

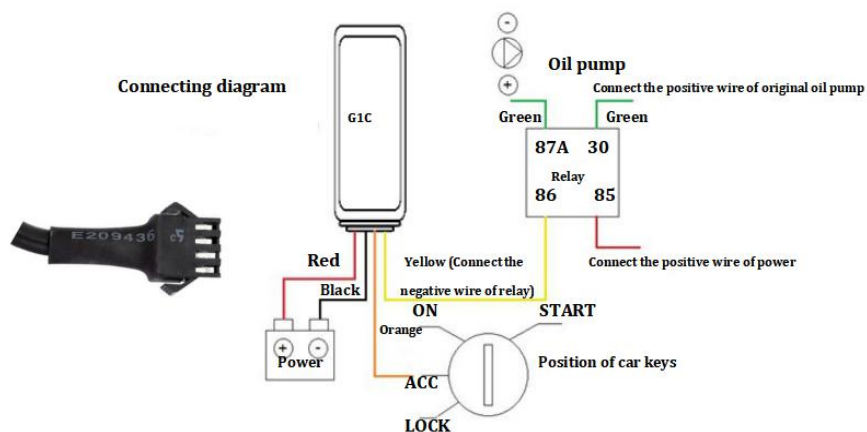


1.2 Product Configuration List

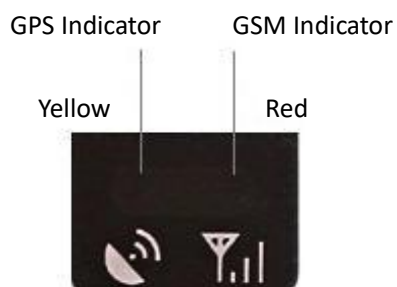
No	Name	Quantity	Unit	Remark
1	G1C	1	Pcs	
2	User manual; Warranty card; Certificate of approval	1	Pcs	
3	Package box	1	Pcs	
4	Power cable	1	pcs	

1.3 Device wiring diagram

Yellow	Relay	Orange	ACC
Black	GND	Red	Power



1.4 Indicating Led Light



GSM Indicator (Red)	
Flash	GSM in the initialization
Slow flash	GSM signals is normal

Long bright	GPRS online
Not light	Not yet received the GSM signal/not insert SIM card/GSM dormancy

GPS Indicator (Yellow)	
Flash	GPS signal in the search
Long bright	GPS has been positioning
Not light	GPS dormancy/not working

2. Specifications and functions

2.1 Specifications

Item	Specifications
Working Voltage	DC 6V - 90 V (wide voltage range)
Material	Plastic
Working Current	60mA @12V(static current 6~9mA)
Standby Battery	55mAH
Size	86*41*12 mm
Location Accuracy	<10 meter
Positioning way	GPS+LBS
Working Temperature	-20℃+75℃
Storage Temperature	-40℃+85℃
Communication Network	eMTC\NB-IoT\GSM
Communication ways	TCP/UDP
Weight	37.6g

2.2 Functions

Functions	Function details	Description
Tracking	Real time tracking	According to the stetted time update the Long and Lat information.
Tracking	Fix distance tracking	According to the stetted distance update the Long and Lat information.
Vehicle status detection	Vibration alarm	In static status, when ACC is off and static status is lasting for at least 1 minute, if vibration is exceed the threshold, it have alarm.
	Collision alarm	When device is located, if the vibration value exceed the threshold, it will have alarm and upload the messages of before and after the collision
	Low power alarm	When device checking the voltage is 5-10V and last for 20s it will have alarm
	Over speed Alarm	When speed is over than the set speed, device will send message to user.
	Under voltage Alarm	When the voltage is below 5V or disconnected to main power for 20s, it will send a alarm location message to platform
	Geo-fence	You can use the mouse to draw a circle on the platform to set the Geo-fence, if the car drive over that circle, the device will send the message to the server to remind you.
Other functions	Blind area uploading data	Storage and it will upload the data when the signal is regular
	SMS query function	Check the position of the device by sending SMS
	Inflexion upload	When the angle that vehicle turned is more than a normal scale it will send a message to optimize the playback
	Remote upgrading	With a software

Harsh acceleration,brake, cornering	Harsh acceleration: if acceleration value exceed the threshold in 1s, then generate alarm; Harsh brake: If acceleration value exceed the threshold in 1s, then generate alarm; Harsh cornering: If the angle and speed exceed the threshold for 2S, then generate alarm
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2.3 Setup and Operation

a) Unit Setup

(1) Check unit

Please check whether the equipment is in good appearance & whether accessories are completed.

(2) Set In SIM Card

Please press out the SIM card slot and put SIM card in. Please not put SIM card in or out when the equipment is connecting power. And please make sure the SIM card has data service.

(3) Setup Position

A. Waterproof: Please set the equipment in dry surroundings; keep it away from air conditioner vents to prevent condensation water inside of the main unit.

B. Anti-Vibrate: tracker cannot install in where is long term vibrated

C. Anti-interference: tracker should stay away from car audio or intercom devices, to prevent conducted and radiated interference.

(4) Connect GPS Antenna

A. Please notice that the GPS Antenna signal receiving side should up to sky and no metal block. Bottom keep flat, tilt should not be more than 45°

B. Wires should be concealed;

C. Please make sure the GPS antenna is connected to the right connector and fixed tightening to avoid vibrated.

(5) Connect to Car Main Power

Please connect the main unit to car main power according to the form before. Connect Red wire to power “+”

---Car master positive power supply.

Black wire connects to Power “-” or grounding, but please ensures good conductivity of the grounding place.

b) SMS Command for Online Tracking Setup

Command format is:

Set IP online:<SPGS*P:GSGPS*T: 120.076.068.123,7788*A:CMNET*N:13288888888*C:30>

SPGS: is Header

P: Password (default password is: GSGPS)

T: 120.076.068.123,7788 is TCP IP and Port

Q: domain name and port

A: CMNET is APN

N: 13288888888 is Device ID printed on the device.

C: Report interval , UNIT:second

c) Set upload interval

Exactly format is:

Set Upload time: <SPGS*P:GSGPS*C:030*O:600>

SPGS: is Header

P: Password (default password is: GSGPS)

C: Command word upload interval ignition ON

030: means 30Sec can change in seconds

O: Command word upload interval ignition OFF

600: means 600Sec can change in seconds

d) Command for Enable Ignition Inhibit

Enable Ignition Inhibit: <SPGS*IMB>

SPGS: Is Header

IMB: Command Word

Reply: Immobilized Successful

e) Command for Disable Ignition Inhibit

Enable Ignition Inhibit: <SPGS*RLS>

SPGS: Is Header

RLS: Command Word

Reply: Demobilized Successful

(**Note:** The device will immobilize if the GPS is fixed and speed is less than 20KMPH. Once the device stopped it will release the immobilizer after 5 min and it will again immobilize if device move)

f) Command for Set Time zone

The device is set to China time zone by default +8. When device upload the data to server it uses default time zone. In order to receive the data in UTC time please set the time zone to 0.

Set Time zone: zone 0:00

Reply: zone 0

3. Common problem analysis and after-sales services

3.1 Common problem analysis

Question	Reason	Solution
Online tracking offline	SIM Card not enough credit	Charge credit
	SIM Card contact problem	Re-install SIM card
	Online tracking parameter setting error	Reset Parameters with correct format according to user manual
	Vehicle in underground car parks or tunnels, signal weak.	Go to good signal area
Cannot locate	Vehicle in underground car parks or tunnels	Leave that area
	GPS Antenna Side is not up to sky	Make the GPS antenna side up to sky

3.2 Attention

1. Stay away from water
2. Please keep the car battery fully charged
3. Device working current is 6-90V, recommended 12V and 24V. Tracker will damage if the current is over this range.
4. Working temperature is -20 to 75 centigrade, please cut off power if the temperature is over this range.
5. When vehicle is in underground parks, tunnels or garage, maybe GPS signal will not very good. Communication network blind area will be caused and cannot monitor vehicle. When the car is out of that area, it will be working well automatically.
6. Please not repair by yourself when the device not working properly.

3.3 After-sale service

1. During the one-year warranty, please feel free to contact us if there is any problem or damage not caused by human factors.
2. Not maintenance:
 - (1) Client dismantled privately
 - (2) Force majeure (floods, accidents, etc.)
3. More than one-year damage or faulty maintenance will need to pay for raw material.
4. Free to provide customers with the purchase, use, installation and other consultation and technical services.

FCC Statement

1.This device complies with Part 22/24/27 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2.Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 22/24/27 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television

reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one

or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio / TV technician for help

(5) The device has been evaluated to meet general RF exposure requirement. To maintain compliance with (47 CFR §2.1091)— Radio Frequency (RF) Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

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