

GPS Tracking Device

Model NO.: M508G

User Manual

Version : Rope-E19102602

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**Notes:**

- Please mount the device steadily on the flat place before using;
- Please make sure the voltage value is right before connecting with battery, and placing the wires to where shouldn't be trodden;
- Please power off when plugging or taking out of any module or connector;
- Please keep the device dry and don't let any liquid fall into the device in case any damage caused in the device or circuit;

If any problem caused as follows, please turn to professional technician:

- When power wire, keyboard, or socket are damaged;
- When liquid infiltrating into the device;
- When the device work unusually or cannot resume to normal even operated according to the instruction;
- When the device cannot work as usual after falling, throwing or breaking;
- When there is obvious damage in the device.

1. Product Introduction

GPS Tracking device mainly consists of two parts such as GPS module and GSM module. GPS module is for getting location data from satellite, and GSM module is for transferring data to server so that people can check the information via PC or mobile phone. Our GPS Tracking device, with the best quality, stable performance and versatile functions, can be applied to various kind of fleet management like construction trucks, rental cars, logistics vehicles and public transportation, anti-theft system and security purpose.



2. Characteristics

- 1) Metal cover;
- 2) External antenna;
- 3) Track by SMS or LTE/WCDMA/GPRS;
- 4) Real time tracking at intervals;
- 5) Cut off car engine remotely (Engine immobilization)
- 6) Resend data from signal dead zone;
- 7) Voice monitoring;
- 8) Detect ACC status;
- 9) SOS alarm;
- 10) Low power alarm;
- 11) Overspeed alarm;
- 12) Geo-fence alarm;
- 13) Illegal start alarm;
- 14) Parking alarm;
- 15) Idling alarm;
- 16) Tired driving alarm;
- 17) Fuel or temperature monitoring;
- 18) History playback;
- 19) Mileage statistics;
- 20) Reports statistics;
- 21) Remotely update firmware;
- 22) Serial ports for 2 peripherals.
- 23) Support 2 analog input and 2 digital input and 2 digital output

2.1 Red LED (power/working status)

LED Status	Meaning
OFF	Lost power/device broken
Fast flash	Sending data to server
ON always	Connected with server
Flash slowly	Connecting to server

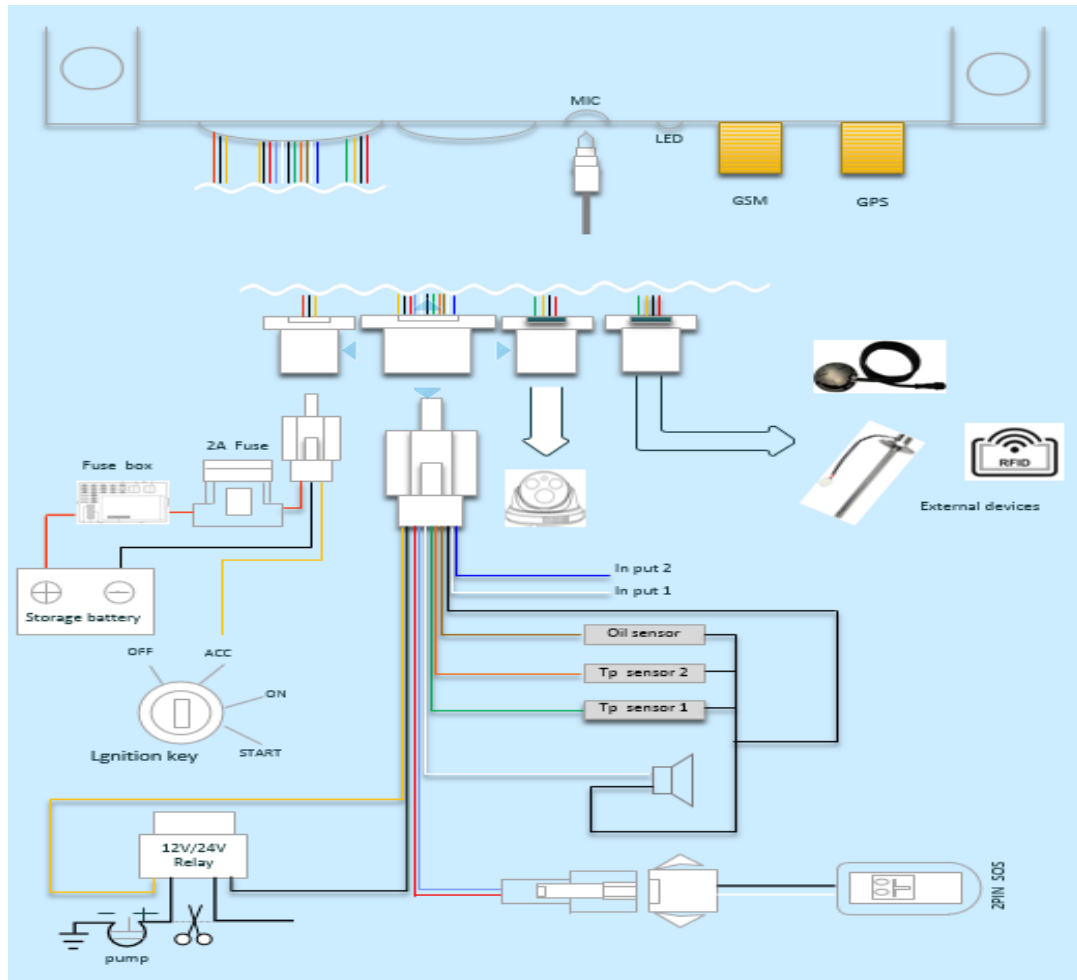
2.2 Blue LED(GPS status indicator)

LED Status	Meaning
OFF	Lost power/device broken
Flash	Searching GPS signal, not located yet
ON	Tracker is located

2.3. Specifications

Items	Parameters
GSM Chip	EC200U- CN/EU/AU
GSM Frequency	EC200U- CN: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 GSM: 900/1800 EC200-EU: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B66 LTE-TDD: B38/B40/B41 GSM: B2/B3/B5/B8 EC200U- AU: LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B66 LTE-TDD: B38/B40/B41 GSM: B2/B3/B5/B8
Data Transmission Channel	GPRS/LTE
Maximum Output Power	GSM850/900:33.0±2dBm UMTS1900/2100:24.0±2dBm
GNSS	GPS/GLONASS/BeiDou (Compass)/ Galileo/QZSS (Optional)
GPS Frequency	L1, 1575.42 MHZ
Channels	56 channels examine track
GPS Positioning Accuracy	5-10m, 2D RMS
GPS Antenna	Built-in
Speed Accuracy	0.1m/s
Time Accuracy	Synchronize with GPS
GPS Data	WGS-84
Hot Start	<1s
Warm Start	<38s
Max Altitude	18000m
Max Speed	515m/s
Gravity Acceleration	<4g
Working Voltage	9VDC~50VDC
Working Current	50mA~160mA
Operating Temperature	-20℃—70℃
Humidity	5%—95%
Size	23mm×54mm×104mm
Simcard	Normal simcard
Battery	Rechargeable lithium polymer battery 400mAh
Internal battery Standby	>2h

2.4. Device Wiring Diagram



3. Method of installation

3.1. Preparation before installation

3.1.1 Open the packing box to check whether the type of device is correct and whether the accessories are included, or else please contact your distributor.

3.1.2 Choose SIM card: each device needs to insert a GSM SIM card.

Please refer to the distributor's suggestions to choose the SIM card.

3.1.3 Installing SIM card into the tracker, open the device with screwdriver and put the SIM card into the tracker (do not insert the SIM card backwards).

Note:

Power off before installing or removing the SIM card

The SIM card should have GPRS credit

Ensure the SIM card is able to send and receive SMS

3.2 Installation

The device installation is covert. Please refer installation to an auto electrical contractor.

NOTE:

3.2.1 To prevent theft of the device, it should be installed as covertly as possible. Covertly installation is

suggested.

3.2.2 Avoid placing the device close to higher power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment;

3.2.3 The device should be fixed into position with cable ties or wide double-side tape.

3.2.4 The device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side is upwards sky without metal object above the device to interfere with GPS reception. The following places are suggested for installation:

-shelter in the decorated board below the front windshield;

-shelter around the front instrument panel (non-metallic material face);

-in the decorated board below back windshield;

4. Web based tracking online activation

The GPRS web based tracking platform allows real time tracking with the latest Google maps.

Service platform login website : <http://211.154.139.208:8000/webgps/>

Vehicle management platform website : <http://211.154.139.208:8000/vms/>

After you added device successfully on the VMS platform , you can send the SMS Commands to activate device

1. Set IP and PORT

SMS command format :

ss,apn,user_name,user_code,ip,port,system number,password

E.g.:

ss,cmnet, , ,211.154.139.208,7000, 13862626201,123456

Notes:

If no username and password, please leave it blank without space,

e.g: ss, apn,, ,IP,Port ,system number,Password

the system number on the platform should be the 11digital number ,start from 13

eg: 13862626201

5. SMS Configuration

Function	Command	Notes
Restart	RESET#	The device would reboot in 20S after receiving the command.
Get Location	URL#	Tracker will reply as bellow: <08-16 16:30> http://maps.google.com/maps?q=N23.168629,E113.433510
Check Tracker Settings	PARAM#	Tracker will reply as bellow: Id:0425041605765; TIMER:30,180;HBT:1,LOCK=0; SOS:,,; Center Number;; Defense time:600; TimeZone:E,8,0; APN:cmnet,,;

		Server:1,at2.truckurcar.com,9999;808 Start stop condition:ACC
Check Tracker Status	STATUS#	Tracker will reply as bellow: External power:ON,28.51V; GPRS:Link Down Signal Level:30; GPS:Successful positioning; SVS Used in fix:6(8); GPS Signal Level:27,21,30,18,20,47,44,0; ACC:OFF;Defense:OFF;Relay:Enabled; Oil1=29,oil2=0,tp1= 34,tp2= 33;
Engine Control	Enable engine: RELAY,0# Disable engine RELAY,1#	Only the center phone number can send these two engine control command, you need to set the phone number to be center phone number via following command: SOS,A,Phone_Number,## CENTER, A,Phone_Number#
Auto Voice Monitoring	CALL,[phone number]# Eg: CALL,13512345689#	The device needs to connect with microphone first, after tracker receive this SMS command, tracker will call the phone number in SMS command.

6. Trouble shooting

6.1. After installing it in the first time, if device cannot get connected with platform server, at this time it is “logged off” status in platform.

Follow the instructions one by one as below:

1) Call the device to see what happens.

If ring: go to the next step.

If not ring:

a. Check whether the SIM card is installed correctly or not. Check whether the connection of power-line is correct or not . (Details: If the users are testing the device in office or at home, they have to connect device with 12V DC external power supply. If it is tested in the car, make sure the installer connect all the cable correctly.)

b. Check the LEDs’ status. In normal working status, the red LED is in bright flash 0.1s dark 2s, yellow GSM LED bright flash 0.1s dark 2s and blue GPS LED bright flash 0.1s dark 2s

c. Check whether the vehicle is in no GSM area, such as basement;

2) Check whether the device reply after sending SMS command.

If reply:

a. Check whether the APN is correct or not,

b. Whether the port is correct or not,

c. check whether the SIM card support GPRS.

d. check the IMEI number is correct or not



If not reply: check the SMS command format, make sure it is correction.

7. Standard Accessories

Index	Item	Quantity
1	Device (With internal battery)	1
2	GPS Antenna	1
3	GSM Antenna	1
4	3P Power Wire	1
5	9P Extended Wire	1
6	Relay	1
7	Packing Box	1
8	Sticker	2