



# GPS Vehicle Tracker

(GPS+GSM+SMS/GPRS)

## User Manual

(Version 1.2) Model:MT08



Please read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only.

### Accessories:

Power line



Relay



# 1. Functions

- Wide input voltage range: 9-50VDC
- GSM quad band,SMS/GPRS(TCP/IP)
- GPS chipset with high sensitivity
- Intelligent activation of GPS positioning
- High integrated, mini size ,easy to install
- Built-in high sensitive GPS&GSM antennas.
- Built-in flash:4M
- Built-in ON/OFF power switch
- Built-in vibration sensor,realize arm&disarmed
- Built-in battery
- Support Acc status detect
- Support engine cut with relay
- Support external power supply cut alarm
- Get location via google map link
- Track by GPRS interval report

# 2. Specification

GSM: 850/900/1800/1900MHz

GPRS: Class 12, TCP/IP

Voltage: 9-50V DC

Current:≈22mA (12vDC)

≈12mA (24vDC)

GPS fixed time: Cold start 30sec(open sky)  
Warm start 29sec(open sky)  
Hot start 5sec (open sky)

GPS fixed precision: 10m (2D RM)

Temperature: -20°C ~ +70°C

Humidity: 5% ~ 95% RH

Dimension: 90.0(L)x45.0(W) x13.5(H)mm

Weight: 80g

# 3. Installation comands

## 3.1 Prepare

- 3.1.1 SIM Card: Please use a GSM SIM card.
- 3.1.2 Before insert the SIM card, please make sure to turn off the device.
- 3.1.3 Please make sure the GPRS can be used, if not, please connect Service Provider.
- 3.1.4 Please make sure the Caller ID can be used.
- 3.1.5 Then insert the SIM card.

## 3.2 Installation

Please pay attention to the following matters:

- 3.2.1 Concealed installation for avoid the thieves damage.
- 3.2.2 Avoid install together with the RF source, such as reversing radar, alarm and other vehicle communication equipment.
- 3.2.3 Can use ribbon or wide sponge strength double-faced adhesive stick to fix.

3.2.4 Equipment with GSM antenna and GPS antenna, installation shall ensure that face up (skyward), and above no metal barrier shield, suggest installation position:

- Front windshield decorative below the covert,
- Front panel (skin for non-metal material) around the shadow
- Rear window below decorative

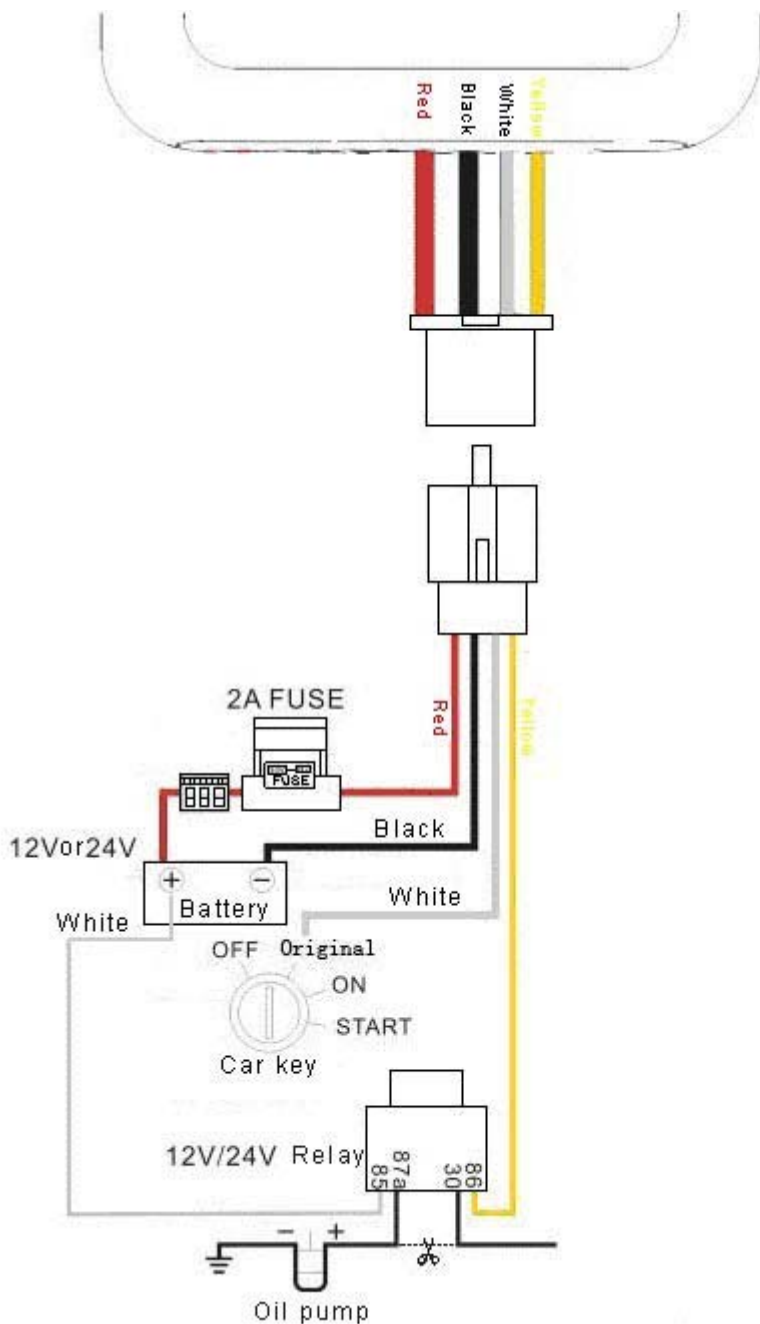
**3.3 Relay connection comands**

Oil pump cut-off relay connection method: Coil ends connection were white line (85) and the yellow line (86), white line (85) joint car positive (+ 12 v), the yellow line (86) joint device relay control line.

The vehicles on the tubing string attached to oil pump, cut the wire of oil pump positive, the wire of oil pump positive joint the normally closed end of the relay (green line 87 a), the other end joint the relay’s other end (green line 30).

Note: this product with standard for 12V relay. Fit for installation on 12V car battery vehicles.  
If the battery of the vehicle is 24Vs battery, need to be choose 24V relay.

**3.4 Device connection diagram**



## 4. Setting by SMS

4.1 If use service platform, please website:

4.2 All of the following commands must be lowercase letters, all of the send commands will be reply. If set successful it will reply "set success!" otherwise need to set again. Send the corresponding commands the device will reply the corresponding results.

### 4.2.1 Set the center number:

If you want to use SMS to set device's working parameter or control the device, you must set the center number first. Device only accept SMS commands of the center number, you can set your mobile phone number as the center number. In order to ensure the safety of users, you must use the password to set the center number. The initial password is "123456". Password can be modified.

The center number set command:

pw,123456,center,00000000000#

Example: pw,123456,center,13510460105#

If the service center number is set successful, the device will reply: Master command set successfully!

If the password is incorrect, the device will reply: "The password is wrong!"

Note: you can only set one service center number.

### 4.2.2 Delete the service center number

Command: pw,123456,center,d#

If the command is set successful, the device will reply "Center number has been deleted!"

### 4.2.3 Modify password

The default password is 123456

Command: pw: new password (6 digits)#

Example: pw,888888#

If the password is modified successful, the device will reply: "password success! Password for 888888".

If the setting is incorrect, then reply "Password format error!".

### 4.2.4 Inquire the parameter setting

Command: check#

Example: check#

Reply Message: SN:1234567890, IP:219.142.106.193, PORT:8500,interval,upload:30,sleep:10,alarm:10

SN:1234567890 -- Serial Number

IP:219.142.106.193, PORT:8500 -- Server IP and port

upload:30 -- GPRS Data upload interval, default is 30s

sleep:10 -- working time before enter sleep, default is 10min. If it is 0, mean do not sleep.

alarm:10 -- Auto prevent theft delay time, default is 10min.

### 4.2.5 Modify the interval time of GPRS data upload

Command: upload, time (in seconds) #

Example: upload,15#

Reply Message:" Set success! Upload time is 15s"

The interval time of GPRS data upload can be set to between 10s and 18000s.The default setting is 30s.

### 4.2.6 Working time before enter sleep setting

Command: sleep, time (in minutes) #

Example: sleep,10#

Reply Message:" Set success! Sleep time is 10min"

The default working time before enter sleep is 10 minutes, set range: 1-1800 minutes

### 4.2.7 Language and time zone setting

The device provide two kinds of language, Chinese and the English. The different areas use different time zone setting.

Command: lang,x,zone,n#

Language options x: 0 is English, 1 is Chinese, the default language x=1.

Time zone n: East eight area for 8, west three areas for -3, the default time zone n=+8.

#### **4.2.8 Check software version**

Command: verno#

Example: verno#

Reply Message: Software version and data time.

#### **4.2.9 Time setting of continuous vibration will wake up when sleeping**

Command: motion, time (in seconds) #

Example: motion,5#

Reply Message: " Set success! motion time is 5s", the default time is 5s.

#### **4.2.10 Time setting of auto sleep out from enter sleeping**

Command: sleepout, time (in minutes) #

Example: sleepout,5#

Reply Message: " Set success! sleepout time is 5min" .

The default time is 0, mean do not auto sleep out when sleeping.

#### **4.2.11 Restart device**

Command: reset#

Example: reset#

When the device received the command, it will restart device after 1 min.

#### **4.2.12 Restore factory settings**

Command: factory #

Example: factory #

When the device received the command, it will restore factory settings and auto restart.

## **5、 Device user manual**



**5.1 Power on/off**

Power on: Before power on, please insert the effective SIM card, and connect all the wiring. The device will auto power on when the outside power input. If no outside power input, long press key for over 5 seconds, the device will power on, then you will see LEDs flickering.

Power off: When the device power on, long press key for over 5 seconds, the device will power off, then you will see LEDs no light. If outside power inputs also exist, the device will auto restart again.

**LED scintillation state meaning interpretation**

| LED                       | Scintillation state      | Meaning            |
|---------------------------|--------------------------|--------------------|
| <b>Red<br/>Power LED</b>  | Shine 0.1 sec, dim 2 sec | Working            |
|                           | Shine 1 sec, dim 2 sec   | Low power          |
|                           | Always dim               | Power off or fault |
| <b>Blue<br/>GPS LED</b>   | Shine 0.1 sec, dim 2 sec | GPS Fixed          |
|                           | Shine 1 sec, dim 2 sec   | GPS not Fixed      |
|                           | Always dim               | Power off or fault |
| <b>Yellow<br/>GSM LED</b> | Shine 0.1 sec, dim 2 sec | GSM ready          |
|                           | Shine 1 sec, dim 2 sec   | GSM not ready      |
|                           | Always dim               | Power off or fault |

**5.2 Location check**

**5.2.1 Get address by SMS from server**

Command: where#

This function needs server support. If server not support, please ignore it.

If GPS fixed, the device replies address.

If GPS not fixed, the device replies: "unable to get the correct GPS data, please try again!"

### 5.2.2 Get location by Google map by SMS

Command: url#

If GPS fixed, the device reply: Google map's location link

If GPS not fixed, the device replies: "Not fixed, the last fixed location is Google map's location link"

If your mobile phone can connect to the Internet, you can open the Google map link to get the address of the device; also can get the address by the browser of computer for input the Google map link.

### 5.2.3 Vehicle management by server

User can login in server's website to manage vehicles. You can get the account and password form vendors.

## 5.3 Alarm setting and cut off vehicle's oil or power

### 5.3.1 Turn on or off stolen alarm

When turn on the device's alarm, if the device was vibrated continuous, it will trigger the stolen alarm.

The device will send alarm message and latitude and longitude to the service platform; and send alarm message and latitude and longitude to the center number by SMS and call the center number. If service center number doesn't answer, the device will call six times.

Command: fortify,x#

x is 1 means: Turn on alarm

x is 0 means: Turn off alarm

### 5.3.2 Alarm clear

When alarm was triggered, the device will call the center number, if you answer it, the device you want to clear it, you can send this command to the device.

Command: alarm#

Reply Message: "alarm has lift!"

### 5.3.3 Cut off vehicle's oil or power

When the vehicle was stolen, you can cut off the vehicle's oil or power by SMS.

Command: relay,x#

x is 1 means: Cut off the vehicle's oil or power success

x is 0 means: Recovery the vehicle's oil or power

### 5.3.4 Alarm of cut off outside power

If the outside power was cut off, the device will trigger the power cut off alarm. The device will send alarm message and latitude and longitude to the service platform; and send alarm message and latitude and longitude to the center number by SMS and call the center number. If service center number doesn't answer, the device will call six times.