

# 4G Car GPS Tracker TP-GPS600 User Manual



## **Preface**

Thank you for choosing the 4G Vehicle GPS 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.

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## 1. Overview

MT600 is the latest 4G GPS Tracker support LTE/UMTS/GSM. This device can locate and monitor any remote targets by SMS or server. The user also can remote cut off oil/power and check the historical record.

The unit features excellent and stable work performance. It is used for vehicle tracking and fleet management.

## 2. Application

- 4GLTE network support
- Real-time position inquire
  - Vehicle trip history on web
- SOS alarm
- ACC switch alarm
- Geo-fence alarm
- External power cut off alarm
- Remote cut off fuel/power
- Vehicle towing alarm
- Overspeed alarm
- Backup battery low power alarm
  - Car battery low power alarm
- High temperature alarm
  - Power saving mode
  - Camera(optional)
  - Door sensor(optional)
  - Fuel sensor(optional)

## 3. Specifications

| Item            | Specifications      |
|-----------------|---------------------|
| Dimension       | 90(L)*70(W)*24(H)mm |
| Weight          | 140g                |
| Input Voltage   | 12V-36V             |
| Backup battery  | 700mAh/3.7v         |
| GPS Chip        | U-BLOX7             |
| GPS Sensitivity | -162dBm             |
| Channel         | 56 Channel          |
| Item            | Specifications      |

|                      |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4G Frequency bands   | <b>TP-GPS600</b><br>FDD LTE: 800/850/900/1800/2100/2600MHz<br>UMTS: 850/900/2100MHz<br>GSM: 850/900/1800/1900MHz<br><br><b>600-A</b><br>FDD LTE: 700/850/1700/1900MHz<br>UMTS: 850/1700/1900MHz<br>GSM: 850/1900MHz<br><br><b>600-C (Standard Version)</b><br>FDD LTE: 900/1800/2100MHz<br>TDD LTE: 1900/2300/2500/2600MHz<br>TDSCDMA: B34/B39<br>UMTS: 900/2100MHz<br>GSM: 900/1800MHz |
| Positioning Accuracy | 10m                                                                                                                                                                                                                                                                                                                                                                                     |
| Hot start            | 1s on average                                                                                                                                                                                                                                                                                                                                                                           |
| Warm start           | 15s on average                                                                                                                                                                                                                                                                                                                                                                          |
| Cold start           | 30s on average                                                                                                                                                                                                                                                                                                                                                                          |
| Humidity             | 5%~95% non-concretion                                                                                                                                                                                                                                                                                                                                                                   |
| Working temperature  | -20°C to 70°C                                                                                                                                                                                                                                                                                                                                                                           |
| Power consumption    | 70mA standby current                                                                                                                                                                                                                                                                                                                                                                    |
| Antenna              | external 4G/GPS antenna                                                                                                                                                                                                                                                                                                                                                                 |
| Sensor               | 3D acceleration sensor, temperature sensor                                                                                                                                                                                                                                                                                                                                              |

#### 4. TP-GPS600 and Accessories

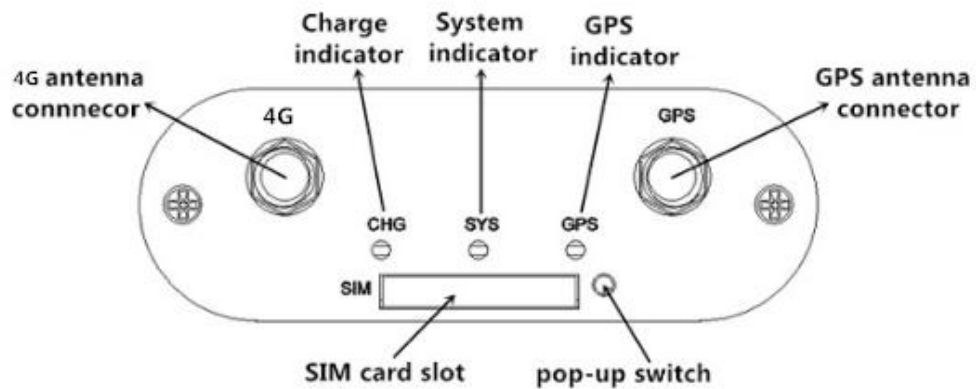
Standard accessories:

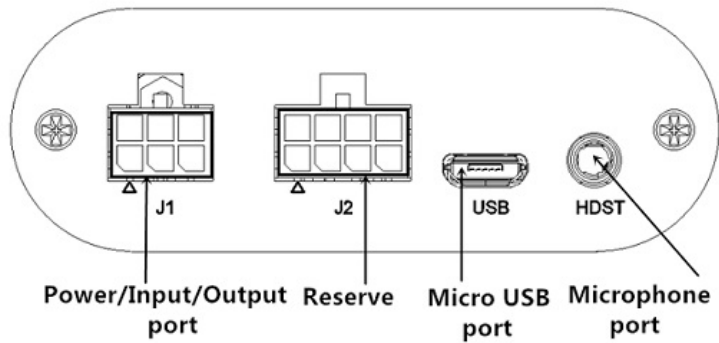


Optional accessories:



#### 5. Appearance





## 6. First use

### 6.1 SIM Card installation

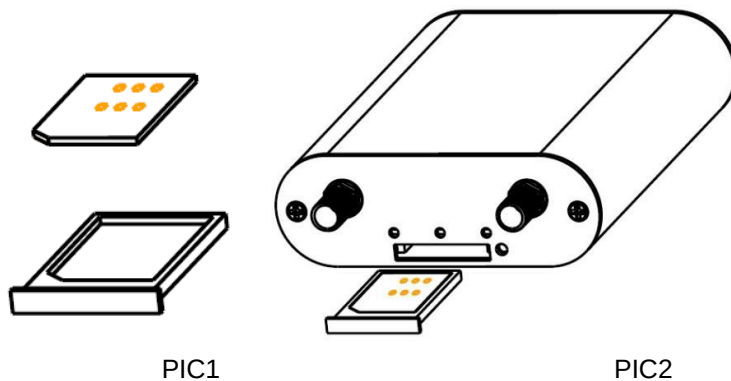
**Pay attention to the following items before installing the SIM card:**

- Ensure the SIM card have enough balance
- Ensure the SIM card enable caller ID and GPRS function
- Ensure the SIM card disable PIN password and call forwarding function.
- Power off the device before installing the SIM card

**To install the SIM card, perform the following operations:**

1. Insert the SIM card to the SIM card slot. Ensure the card chip facing up(see PIC1).
2. Put the SIM card slot back(see PIC2).

**Note:** If you want to take out the SIM card, use the tweezers to press the SIM card pop-up switch, the SIM card slot will pop up.



## 6.2 Indications

### 6.2.1 CHG-Charge indicator(RED)

| Status    | Description    |
|-----------|----------------|
| Always ON | Under charging |
| OFF       | not charging   |

### 6.2.2 SYS-System indicator(BLUE)

| Status                | Description                  |
|-----------------------|------------------------------|
| Always ON             | No SIM Card or no 3G network |
| OFF                   | Parked                       |
| Quick flash (8s/time) | Work mode                    |

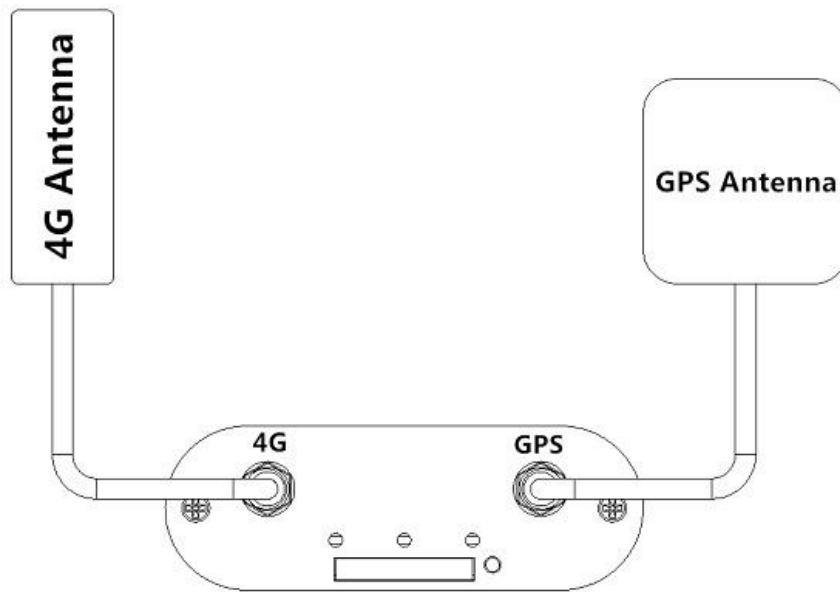
### 6.2.3 GPS-GPS indicator(GREEN)

| Status               | Description     |
|----------------------|-----------------|
| OFF                  | GPS unavailable |
| Quick flash(1s/time) | GPS available   |

## 6.3 Device Button Instruction

| Button                   | Description                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Button             | <ul style="list-style-type: none"><li>● Insert the SIM card slot to <b>POWER ON</b>, take out SIM card slot to <b>POWER OFF</b>.</li><li>● Connect the external power to <b>POWER ON</b>, disconnect the power to <b>POWER OFF</b></li></ul> |
| SOS Button<br>(optional) | <ul style="list-style-type: none"><li>● Press and hold the button for 3 seconds,the unit will upload data to server</li></ul>                                                                                                                |

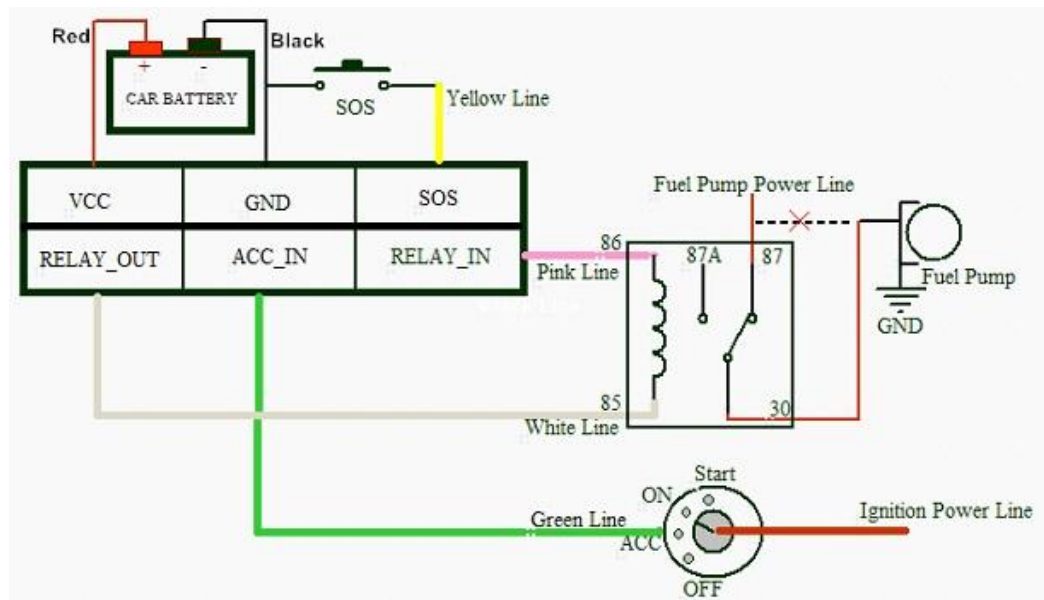
## 6.4 Install 4G/GPS Antenna



- Connect the 4G antenna to the connector which is labeled "4G". The 4G antenna is non-directional, so you can hide it in any place of a vehicle.
- Connect the GPS antenna to the connector which is labeled "GPS". It is recommended that the antenna is facing up to the sky and the antenna side with words is upwards. Secure the antenna by using double sided tapes

**Note:** Do not install the GPS antenna at a place with metal.

## 6.5 Install the Power Wire & Relay



When you get the device please connect the wire as follow:

- Red: Connect to Car battery(+)
- Black: Connect to Car battery(-)

- Green: Connect to ACC
- Yellow: Connect to SOS
- White: Connect to Relay(85)
- Pink: Connect to Relay(86)

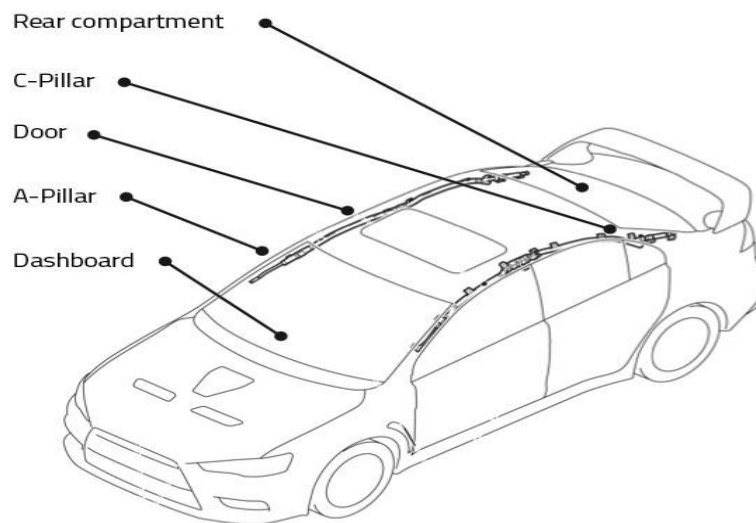
**Note:** Relay is optional.

## 6.6 Install the SOS

- Red: connect to Yellow of Power wire
- Black: connect to Black of power wire

## 6.7 Areas for Installation

Displayed are our recommended areas available within a car that can be used to hide the GPS Tracker. For additional security, you may install in other areas your desire.



### 6.7.1 Caution

- Do not place the unit under metal surfaces.
- Do not install next to radio, speakers or alarm systems.
- It must be rigidly mounted on the surface.
- Do not place the unit next to heat or moving parts.
- It is recommended to place the unit near areas open to the sky (dashboard, rear windscreen, C-Pillar areas, doors, etc)
- Device can be placed in other areas of the vehicle (internally or externally in car, truck, motorcycle) wherever there is visibility to the satellites.

### 6.7.2 For added protection

- Thief would normally inspect the dashboard area for GPS tracking system. Thus, install the unit in random areas to minimize the chances of the tracker being discovered.
- Do not let people know the existence and whereabouts of your GPS tracking unit.
- Install connecting wires as discreetly as possible, making it less obvious and harder to notice.

## 7. Main Operation and Application

### 7.1 Set Authorization Phone Number

Instruction format: \*cell phone number \*password\*serial number(1-3)\*\*

For example:\*13424392330\*0000\*1\*\*

Reply:SET USER NUMBER 1 OK.

Note:

- The device defaulted password is 0000.
- The device can only authorized 3 cell phone numbers

### 7.2 Delete authorization number

Instruction format:\*\*password\*number(1-3)\*\*

For example:\*\*0000\*1\*\*

Reply:DELETE USER NUMBER 1 OK.

### 7.3 Change the password

Instruction format:777+new password+old password

For example:77712340000

Reply:SET USER PASSWORD OK.

### 7.4 Single Locating

Instruction format:666+password

For example:6660000

Description:Send this SMS command to unit,it will reply SMS as follow:

ID:865662000409210

Date:05:36:59 15/08/2015

Fix:AState:SMS

<http://maps.google.com/maps?q=+22.63146%2c1+14.03701>

### 7.5 SOS Alarm

When press SOS button for 3 seconds,it will upload data to server, the state is "SOS"

### 7.6 Geo-fence

Instruction format:006+password+G1,IO//O,E/W longitude upper limit+N/S latitude upper limit,E/W longitude lower limit+N/S latitude lower limit.

For example:0060000G1,IO,E114.04540N22.59034,E114.05978N22.59797

Reply:SET SQUARE GEO-FENCE1(IO)OK.

#### 7.6.1 Enable the Geo-fence

Instruction format:311+password

For example:3110000

Reply:SET SQUARE GEO-FENCE: ON.

#### 7.6.2 Disable the Geo-fence

Instruction format:310+password

For example:3100000

Reply:SET SQUARE GEO-FENCE: OFF.

### 7.7 Remote cut off fuel and power

Cut off fuel and power: 940+user password

For example: 9400000

Reply: SET OILWAY DISCONNECT

Resume fuel and power: 941+user password

For example: 9410000

Reply: SET OILWAY RECOVERY CONNECT.

**Note:**The default is OFF

### 7.8 External power cut off alarm

If the external power wire is disconnect, it will send SMS to authorization phone number and upload data to server, the state is:DEF.

### 7.9 Towing alarm

If the vehicle was be towed when ACC is OFF, it will send SMS to authorization phone number and upload data to server, the state is:TOWED.

### 7.10 Low battery Alarm(backup battery)

When the device battery is low power,it will send SMS to authorization phone number and upload data to server, the state is:BLP.

### 7.11 Low battery Alarm(car battery)

When the vehicle battery is low power,it will send SMS to authorization phone number and upload data to server, the state is:CLP.

### 7.12 High Temperature Alarm

When the device temperature is higher,it will send SMS to authorization phone number and upload data to server, the state is:HD.

### 7.13 Over-speed alarm

Command:#122#user password#X##

Example:#122#0000#120##

Reply:SET SPEED LIMIT:ON

Close command: #122#0000#0##

SET SPEED LIMIT:OFF.

Note:X is speed value, unit is KM/H definition is [0, 999].

### 7.14 Set time zone

Instruction format:896+password+ +/-HH:MM

For example:8960000+08:00

Reply: SET TIME ZONE:+08:00

- The default is Greenwich time(UTC).

### 7.15 Set GPRS user name

Instruction format: #801#password#new user name##

For example: #801#0000#MT500##

Reply: SET SERVER USERNAME OK.

### 7.16 Set APN(Access Point Name)

Instruction format 1: #803#user password#APN##

For example: #803#0000#CMNET##

Instruction format 2: #803#password#APN#APN user name# APN password##

For example: #803#0000#CMNET#INTERNET#INTERNET##

Reply: SET GPRS APN OK.

### 7.17 Set Server IP and PORT

Instruction format: #804#password#IP address(or domain) #port##

Example: #804#0000#192.168.1.1#8080## or #804#0000#www.mictrack.com#80##

Reply: SET SERVER IP AND PORT OK.

### 7.18 Set GPRS Upload Interval Time

#### 7.18.1 ACC ON(Upload status is AUTO)

Instruction format: #805#password#interval time##

For example: #805#0000#30#1##

Reply: SET GPS PERIODIC UPLOAD OK.

**Note:** interval time define is [10,65535] seconds,. If interval time is 0, it will stop upload and reply: SET GPS PERIODIC UPLOAD OK

#### 7.18.2 ACC OFF&Vehicle Move(Upload status is TOWED)

Instruction format: #809#password#interval time##

For example: #809#0000#60#1##

Reply: SET GPS TOWED UPLOAD OK.

**Note:** interval time define is [10,65535] seconds,. If interval time is 0, it will stop upload and reply: SET GPS TOWED UPLOAD OK.

#### 7.18.3 ACC OFF&Vehicle Still(Upload status is AUTOLOW)

Instruction format: #807#password#interval time##

For example: #807#0000#10#1##

Reply: SET GPS POWER SAVING UPLOAD ON.

**Note:** interval time define is [2,1440] minuets,. If interval time is 0, it will stop upload and reply: SET GPS POWER SAVING UPLOAD OFF.

### 7.19 Invalid GPS Data Upload

Invalid data upload ON: 081+users password

For example: 0810000

Reply: INVALID DATA UPLOAD: ON

Invalid data upload OFF: 080+user password

For example: 0800000

Reply: INVALID DATA UPLOAD: OFF

### 7.20 SMS Response ON/OFF

SMS OFF: 160+ user password

For example: 1600000

Reply: SET SEND SMS: OFF.

SMS ON: 161+ user password

For example:1610000

Reply:SET SEND SMS:ON.