

USER'S GUIDE - SMART GPS TRACKER

Model: GPM500 & GPM500a-D



Main Functions:

- 1) As a basic positioning tracking device
- 2) Power shut-down / break off petrol oil through Cloud computing system.
- 3) Monitoring from platform - When power shut down successfully or not may notice from monitoring platform in the control center.
- 4) Alert signal – Whenever the wire of device being cut, the device itself may transmit this to the control centre and you can see the signal alert on the platform.
- 5) Setting - The device is set for 60~999second for every step of setting of function when not continue to send command /setting then will automatically stop(enter to sleeping mode)
- 6) Smart upload -Automatically adjustment for flow of loading, if the car is moving very fast, then will upload fast .If the car is moving slowly then will be upload slowly. This is to control the flow /density of uploading for the purpose of money saving because in many countries the bill of sim-card will cost very expensive whenever if density of uploading is high. .
- 7) Small and easy to hide - After installation , if you don't want anyone else realize that you have a small device installed for detection then you can hide it with off the LED light.
- 8) Counting mileage accurately.

I. Specification:

Power:

1. Power range : 9-40vDC
2. Power consumption : 20mA (12VDC):10mA(24VDC)
3. Standby-power : 1mA(12VDC):05mA(24VDC)

GSM:

1. GSM Frequency: 900/1800Mhz (For Dual band)
850/900/1800/1900Mhz (For Quad band)
2. GPRS: TCP/ IP

GPS:

Acquisition Rate:

1. Col start: 42 s (Typical)
2. Hot start: 1 s (Typical)
3. Accuracy Position: 10 m, 2D RMS

Environmental Characteristic:

1. Working Temperature: -30°C~+70°C

Dimension:

95(L) x 45(L) x 16(H)mm

II. Product picture:

GPS signal -- >

GSM signal -- >

Power for battery -- >

*Red LED light = no battery

*LED light off = full battery



< -- Sim card

*metal CHIP side should be on top

III. LED Light:

1. Blue LED light (GPS signal)

Signal	Description
Flash	Searching GPS
Light on continuously	GPS - receiving under normal status
No Flash	GPS under searching status/ standby mode

2. Green LED light (GSM signal)

Signal	Description
Flash quickly	GSM sending data
Flash slowly	Not connect to GSM/ Searching GSM
Light on continuously	GPRS connect successfully/ under standby mode
No Flash	Under sleeping mode

3. Red LED light (For battery power)

Signal	Description
Light on continuously	Charging Battery
No Flash	Battery finished charging

IV. Installation Method

1. GSM SIM card ,should be insert to device and make sure the GPRS is activate. If your SIM card required enter SIM PIN, please refer to your hand-phone user's guide to off the SIM PIN function.
2. Tracker will automatically on whenever the SIM card insert and the GPS Tracker will start to activate.(Noted: sometimes will not activate if it is no battery. If this happened please charge the GPS Tracker)
3. To activate the Tracker, please place the side with "This side up" on top. If the Tracker Blue LED light (GPS) never link will directly enter to sleeping mode. Need to shack the Tracker until Blue light on steady (This mean successfully link).
4. When install the tracker, suggest in the open space area, GPS signal is stronger will help for better and stable GPS signal receive.(Installation: avoid install in raining or wet area).
5. If Tracker install in covert suggest that:

- A) Avoid install to metal material of vehicle, this will influence GPS signal receive.
- B) Avoid install near to the parking sensors/distance control device/ car alarm and any other which is easily influence the GPS.

*The tinted window film may easily influence and reduce the GPS receive signal.

6. If GPS abnormal/not receiving GPS, suggest change a new place to install the Tracker device.

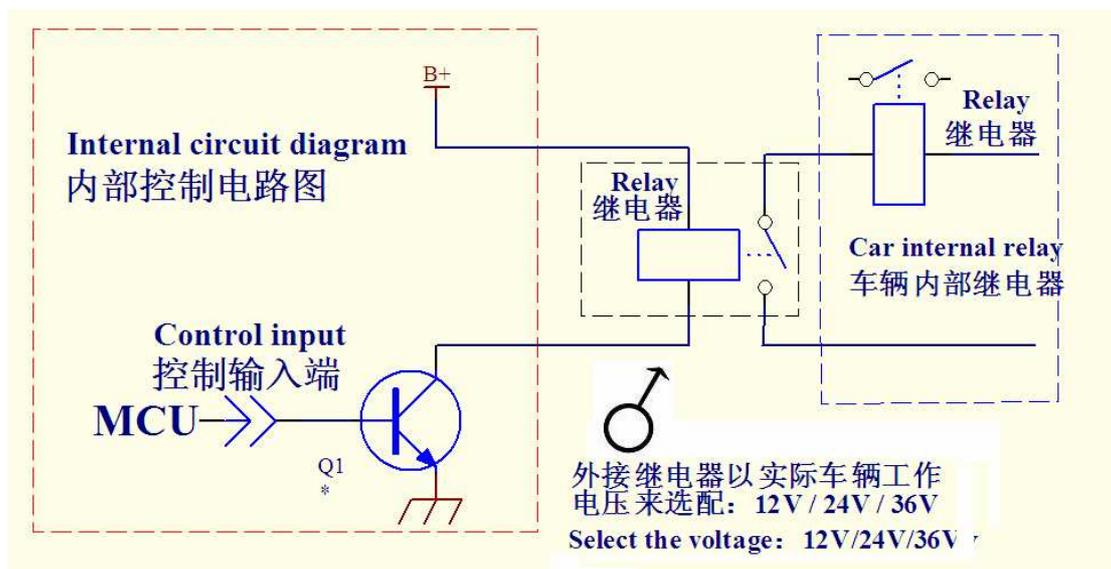
V. Wire accessories:

- 1. Red wire, connect to car battery (+),
- 2. Black wire, connect to car battery (-)
- 3. Installation for function: Break off petrol oil and power shutdown through Cloud computing system:



appearance figure

- A) Tracker remote control break oil//engine start - the output relay coil electric /current should be under 1A.
- B) After power connection, continue with setting for parameter.(Please refer to your parameter setting document).
- C) The output relay contact point should connect to serial in for car engine start/oil pump of relay coil.



Block Diagram.

VI .Tracker-Troubleshooting

If monitoring platform shows the vehicle is not active /on line:

1. Please check and make sure the Tracker LED light is in normal status (Blue /Green LED lights continuously on) .
2. To check the status you may call from the hand-phone to the Tracker. From the below, you can check and make sure the status:
 - A) If cannot reach the line, this mean the Tracker is out of the GSM service area/ SIM card is not insert properly or you are in underground/basement. Please drive the car to open space area for setting.
 - B) First time setting, need about few minutes. Please make sure on top the Tracker is no metal material cover to it.
 - C) After power on for a while, 3 LED lights are off (no signal) then will be enter to the sleeping mode. .