

TP-002 GPRS VEHICLE TRACKER

Features:

- Track by SMS/GPRS (Meiligao Protocol)
- Track on Demand
- Track by Time Interval
- Track on Mobile Phone
- Internal 4MB Memory for Logging
- Inbuilt Tremble Sensor
- Internal Backup Battery
- SOS Alarm
- Geo-fence Alarm
- GPS Blind Area Alarm



- Low Battery Alarm
- Speeding Alarm
- External Power Cut Alarm
- Engine Cut (Engine immobilization)

User Manual

TP-002 is a portable GPS device by satellite and with GSM technology, combined with anti-theft, positioning, monitoring control, emergency alarm, tracking and integration functions as totally new product, with compact size, convenient to use, easy to operate features, mainly used in vehicles and other mobile object positioning and tracking service. TP-002 fully supports the GPRS network data transmission function, which is combined with GPRS platform software to make it more widely

in large-scale cluster monitoring, emergency scheduling or dispatching, location-based services, traffic safety management and many other fields. TP-002 can also be used for large-scale construction measurement, military surveying, precision timing, the mobile base station location, and other special areas anti-theft car accessory/GPS Gsm tracker for vehicle with high quality in large stock!

real-time tracking

accurate positioning

anti-theft car accessory/GPS Gsm tracker for vehicle details function:

*Based on GSM/CDMA/GPRS

(850/900/1800/1900MHZ Or 800/900/1800/1900network and GPS satellite

positioning system to track the far-way object conveniently by sms message, internet GPRS software platform or PDA. Free service cost

1>Location and Tracking: Getting latitude and longitude by SMS or GPRS and check position by Google earth or GPRS software platform.

2>SOS emergency Alarm: Send the SMS message to the authority Mobile No. when having the Emergency situation by SOS button.

3>Voice Surveillance: it Can Monitor the 5meter scope sounds around the tracker

4>Moving: When the target move out the setting scope, will send SMS alarm message to the authority Mobile No.

5>Speeding Alarm. When the target moves faster than set up speed, it will send Alarm message.

6>Real-time polling: report the location Lat. & Log. Data at anytime.

7>Geo-Fence: set up Geo-fence for unit to restrict its movement in the limited scope.

8> Auto Track: set up the tracking time to get the Auto Lat. & Log. Data at every setting intervals

9> Low Battery Alarm: when the Battery is low power, the unit will send the message alarm.

10> Non Signal Alarm: Will send the last message Alarm when the unit enter into the blind area.

11> Remote Control the Circuit: It can remote control (cup down or re-start) the target Circuit by mobile phone to send the SMS instruction.

12>Remote Control the Oil: It can remote control (cup down or re-start) the target Oil by mobile phone to send the SMS instruction

13> Mileage statistics, ACC detection,

14> Compatible with the original anti-theft car Alarm

15> Remote reboot the system: it can restart the unit by sending the sms instruction

16> All of our model supporting the GPRS software Platform internet real time tracking as long as the customer having the GPRS software platform.

Applications:

*Vehicle rental / Fleet management etc

Product Features:

- ⑩ fully supports the GPRS network data transmission function.
- ⑩ Support for long-distance correlation parameter setting terminal.
- ⑩ Support for automatic sleep mode and standby, operating current has only 80mA.
- ⑩ Support point-to-point, point-to-group, group-to-group monitoring.
- ⑩ Combined with anti-theft, positioning, monitoring control, alarm and tracking multiple functions. Thanks for using TP-002 GPS tracking anti-theft product, before using the product, please read carefully the operation specification.



Applications:

1. Taxi dispatch management
2. Long distance passenger vehicle GPS monitoring
3. Bus GPS scheduling management system
4. Logistics vehicle GPS monitoring and management system
5. Rental vehicle GPS monitoring system
6. Gps monitoring center to charge the end user monthly fee
7. Extended LED screen for advertising purpose

NOTE:

- ⑩ All input commands can be in capitalized or lowercase letters in English, but need to use standard punctuation marks in English version, forbidden to use other input methods in place of punctuation. Message command and all content are no space allowed between characters.
- ⑩ TP-002 is not with waterproof capacity; select the location of the installation of drying and moisture-proof or waterproof.
- ⑩ Please correct installation of your use of TP-002 products, not in the non-compatible devices installed on TP-002 Products.

NAME	PARAMETER
Dimension	118mm × 93mm × 36mm
Color	Black
Working voltage	9V -- 30V DC
Working current	60 mA -- 120 mA (DC)
Back-up battery	320 mA / H
Installing size	75mm X 45mm X 20mm
Weight	0.16kg
Working temperature	-20℃ -- 75℃
Moisture	5% -- 95% (Non-water vapor condensation state)
GSM Frequency	900MHz / 1800 MHz or 850MHz / 1900 MHz
GPS Module	Skylab
GPS Sensitivity	-158Db
GPS Frequency	4800 MHz
Receiving panel structure	GPS module 24-channel
Locating accuracy	< 10m (95%)
Time update	Together with GPS
Cold start time	< 48s(in average)
Heat start time	< 8 s (in average)
LED indicator light	usage of blue / red dual-color LED indicator light shows the GPS / GSM status

	QTY	IMAGE	FUNCTION
Main device	1PC		TP-002 main device
GSM Antenna	1PC		Receiving GSM network signal
GPS Antenna	1PC		Receiving satellite locating signal data
Relay	1PC		To cut-off/recover the power supply or fuel supply
MIC(optional)	1PC		Used to monitor the voice inside the vehicle
6PIN cable	1PC		Main cable to connect with the vehicle

Before installing this product, please check the detailed list of accessories, quality, and packaging.

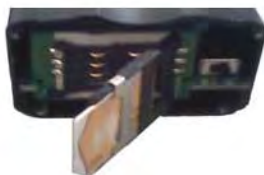
Pre-installation inspection.

This device using the 12V, 24V motor vehicles, will not conflict with the original car system, in order to facilitate fault diagnosis and unusual dispute after installation, please check the pre-installation inspection and truthfully inform the owner.

- ⑩ Check all function whether it is normal for the vehicle. Such as: lights, small lights, turn lights, fog lights, ACC, CD drive, electric windows, remote control cars in the original control, engine start, engine run and so on.
- ⑩ Check various decorative items inside the vehicle whether standards to connect, and check if decoration of the car has damaged.
- ⑩ check with the product is damaged, if there is exposed copper phenomenon.

SIM card installation

- ⑩ For all functions to be performed well, please make sure the GPRS service of this SIM is available.
- ⑩ Before installing or discharging the SIM card, please power off the device completely, or else there may be the operation led to the burning the SIM card.
- ⑩ For SIM card installed or discharging, required "+" screwdriver to open the back-end equipment baffle, for the specific installation steps please refer to the following diagram:
(Step 1) (Step 2) (Step 3)
- ⑩ Please insert the SIM card, connect an external power supply, and open the SIM built next to battery backup switching, and then covered with equipment tailgate, at last tight the rear.

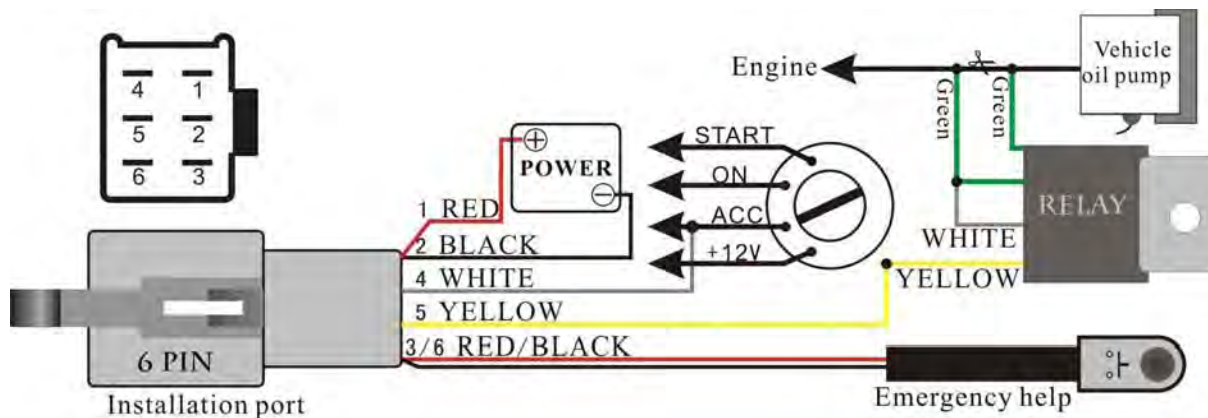


6 PIN cable installation image

⑩ Power positive (red):

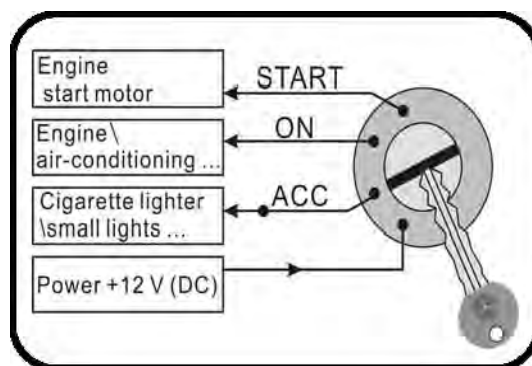
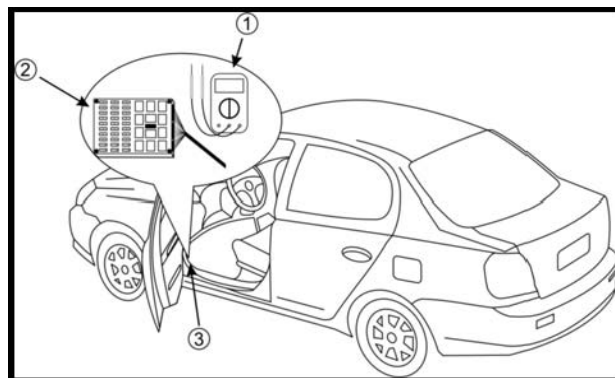
Power supply cathode-ray installation in general with the battery cathode, or with the cutout box's total power input regular line (+12 V). During installation process must choose coarse (+12 V) line up in parallel, but have to be insulation, forbidden to connect the thin line in parallel.

⑩ Power supply negative electrode (black):



The vehicle body metal itself is a negative electrode, usually the installers will choose a screw and loosen it, then tied to negative electrode line, tightening it. However, it will be oxidized after longtime, so it will cause bad effect to the device. Most of the vehicles need one or more screws to the anti-oxidation process, adopted with multi-point grounding after gather up all cathode-ray by parallel way, to ensure the grounding. So we should adopt the second way for grounding. (Remarks: Its theory is the same as (+12) electricity cable, better to be coarse.

⑩ ACC test line (white):

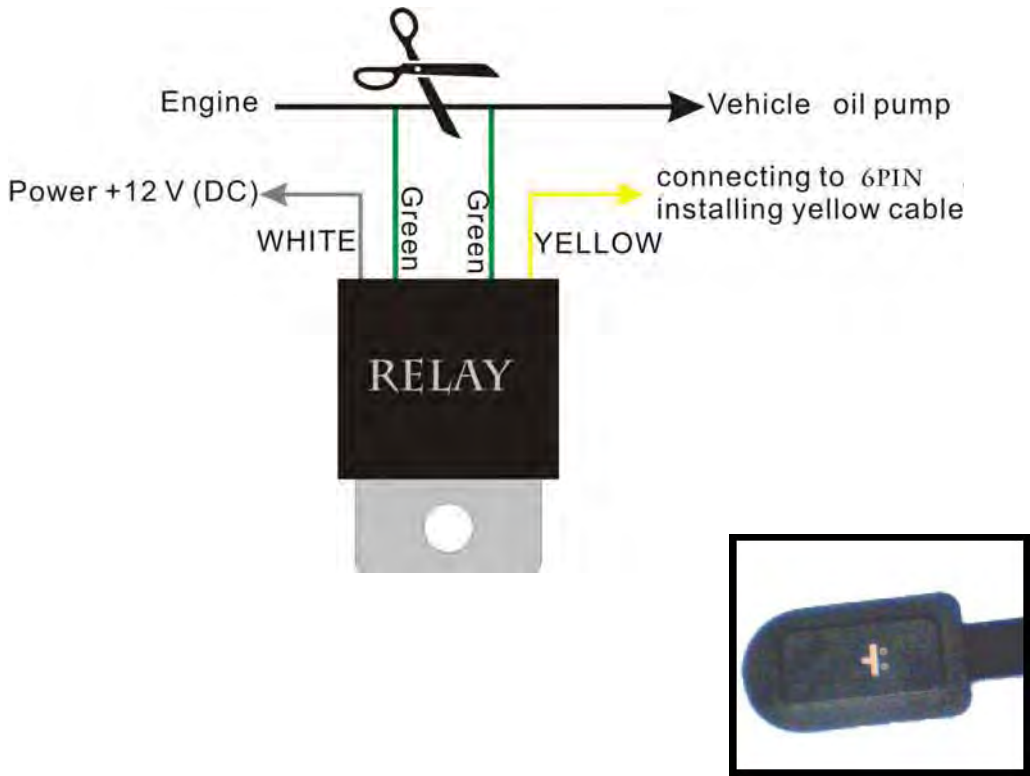


ACC Security installing line mainly for signal cable to detect the vehicle's electronic controlled key status (remarks: electric control keys are mechanical power equipment in control of the entire vehicle), before inserting, the entire vehicle electrical circuits and power is off status, when the turn right the key for one set then will be ACC), vehicles on the part of the equipment can be connected to a power supply, ACC installing line in white is connected to this line.

⑩ **Engine/fuel control cable (yellow):**

TP-002 of the power control line (yellow) is mainly used to meet with the power relay circuit to cut off the motor fuel or engine circuit, forced to stop the engine running.

? ⑩ **Emergency button:**



w

While driving meets an emergency situation, you can press the button to send SOS via TP-002 equipment outside. Usually installed in the driver convenience of operation and does not easily found location.

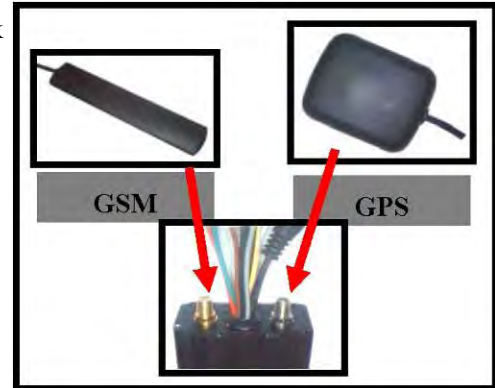
4 PIN Cables connecting port description

4 PIN cable port is TP-002 software upgrade equipment or expand function in future, the user during the installation process do not need to install, pay attention to insulation and waterproof moisture.

GPS/GSM Antenna installing

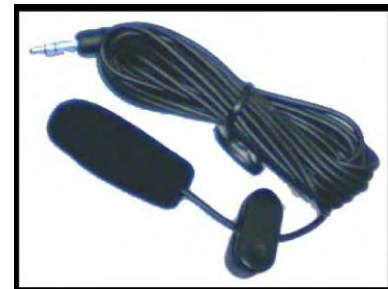
Because the installation location of the vehicle is special, it is recommended to install in the following locations and require ensuring the right way, at the same time, please pay attention to the concealment.

- ⑩ In front bumper or near the headlight.
- ⑩ Between the rear case of the engine and windshield glass.
- ⑩ Before the bottom of the windshield and instrument, black face on.
- ⑩ Instrument panel with the most centralized place, with many metal supporting places, so please put it in the upper place, and avoid vehicle cables and speak or air condition where with strong magnetic, distance with 20CM
- ⑩ The back seat of the cab below the rear windshield.
- ⑩ GPS positioning device during the installation process as far as possible to ensure that plane up, and GPS 60 degrees above GPS is without metal shielding material.



Monitor MIC (optional)

The main control center for the owners or TP-002 devices is to monitor the voice inside the vehicle to assist the users or monitoring center to decide in time. Please pay attention to the monitor MIC, make sure it is far away from magnetic fields, such as: sound box speakers, power cord, usually installed on the cab roof near the top.



APN settings

Due to different countries and districts, so there are different APN for GPRS to LOG IN from different networks server agent. It requires reset to the wireless mobile GPRS to log in to the APN gateway/network user name and network password to make it works properly. Set correctly with APN gateway, network login username and network login password, and then restart the device before use it. (The device default gateway for China Mobile APN as CMNET).

	Sending command message	Respond message content
Set APN command	APN:CMNET#	APN:CMNET
Set user name command	USER:user#	UserName:user
Set password	GPRSPASS:gprs#	Gprs Password:gprs

Note:

The abovementioned command is based on China APN as: APN:CMNET Username:user Password:gprs Please find out what is the correct APN,user name and password for your SIM card,if you are not sure about it,you can make a call to the SIM card provider to get the informations,if the APN for your SIM card doesn't contain an user name and password,just ignore the user name and password settings

Positioning call

Monitoring center can directly designated to call for checking with online terminals, automotive terminals will feedback the detailed data to the monitoring center.

Data transmission timing

Monitoring Center can set time interval to let the designated vehicle to feedback data info from time to time, the factory default upload interval of 30 seconds, adjustable range is 5-120 seconds; If you set interval as "<5" seconds or "> 120 seconds ", the terminal equipment will automatically feedback defaulted by 30 seconds.

Locating and tracking

When monitoring center open location and tracking features on designated vehicle, the monitoring centre will monitor the center platform on the map will always show when the current vehicle's data.

History replay

Monitoring Center can designate vehicle terminal device and set the time to pre-route the track playback, and shows on the map with dynamic display. Can also be derived in accordance with the set time-related data track playback.

Mileage and Statistics

Data can be saved from the vehicle installed in the car, so monitoring centre could check the mileage data save terminal device ,or delete the data in storage, and also , it can also set the time in accordance with the Export-related mileage statistics.

Blind point report

If the GPRS signal blind spot or short-term network congestion, the terminal will return in accordance with the time interval from time to time save the location data automatically, when after the vehicle receiving GPRS signals, terminal will uploaded the data of blind spot to the center automatically (up to 800 store data).

Monitoring

Monitoring center platform can be configured to monitor communication call-back number, send "monitor" command, terminal will call back to monitor. (Required car terminal in the SIM card to open call function)

Engine control

Monitoring Center can with friendly remote control to disconnect circuit, oil circuit or the circuit to resume vehicles on the designated vehicle, when the car terminal received the command, will recovery the oil or electricity supply.

NOTE:

TP-002 in the implementation of action off the oil, it is 3 times before the implementation of intermittent broken off oil **【1 seconds ---- 15 seconds】** to restore to the 4th Circuit on the full cut.

Overspeed alarm

Monitoring Center can order single or multiple car issued for speeding alarm max speed setting value, when the vehicle speed exceeds a set value, TP-002 will be immediately issued against speeding with the police data, send the current location information and speed to the monitoring report Center. Can be set according to customer demand for a warning buzzer functions for speeding, the Center will confirm the alarm or cancel it after receiving the information.

Emergency help alarm

When face emergency case or ask for help, press the emergency button within 2 seconds will trigger an emergency alarm, terminal device will report to monitoring centre, control center will handle the situation in accordance with the relevant procedures, the centre can confirm and cancel the warning. (Detailed function of the installation and usage please refer to the previous description of the installation part of **【6PIN installation instructions】**)

External power off alarm

When the car was cut off power supply terminal, the terminal in the 3 seconds immediately sent off alarm, at the same time start the backup battery power supply (available for four hours of work equipment), 30 seconds after the alarm and then automatically detect whether to cancel an alarm, After the police received information center may confirm and cancel alarm.



	Problem	Reason	Solution
		Power installed incorrectly	1, power of positive and negative anti-access installed the power of the cathode or anode barrier; the original car is controlled by main power switch
1	Light off after device connected with power	Power barrier	The electricity installing cable is power off fuse disconnect Main device and the connector to installing lines bad connected
		Indicator light fault	Bad quality for the indicator light
2	Power indicator light recurring cyclical for long time light on and flash quickly.	SIM card could not be detected after electricity power on, and the device reset repeatedly.	TP-002 did not put in SIM card SIM card inserted into the wrong direction SIM card failure.
3	Equipment are often not positioned	GPS antenna error	The installation of GPS antenna location is incorrect, please refer to the specific 【main device installation】 item. GPS antenna quality problem, please change another one. GPS antenna and main device connecting point is loosen or wrong place GPS antenna head attacked by water or damp
		Signal interference	The electromagnetic interference Speaker the market part of the electronic dog, wireless MP3 signal interference explosion-proof barrier
4	Sending SMS to SIM card inside the device, but no response	Don't response messages	Command format error punctuation errors SIM card balance out
		Occasionally don't reply messages	Bad signal Installation position wrong signal shielding serious
5	There is noises when listen in	Installation problems	Please avoid magnetic field installing power supply

	No alarm when device power off	Back-up battery failed to open	Find a local dealer to open a timely backup battery switch
7	Unable to power on the vehicle	Installation or operation function improperly adjust	Due to fault operation adjust to the automatically anti-theft function. broken appliances or the installation of quality lines damaged and short-cut body.
8	Locating imprecisely	Signal interface	the electromagnetic interference Speaker the market part of the electronic dog, wireless MP3 signal interference Anti-exposure signal interface