

GPS Vehicle Tracker

User Guide



This book is designed to explain the base functions and features of the GPS vehicle tracker.

1 QUICK LOOK

1.1 What is in the box



GPS Tracker

Manual

Cable

1.2 Key features

- Real-time GPS tracking
- Track through SMS, Web, App
- Overspeed alarm
- Remotely fuel/power control
- Vibration alarm
- ACC status monitor
- GEO-fence
- Build in backup battery

1.3 Specifications

Operating Voltage	9~36VDC
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Frequency	LTE-FDD(B1/B3/B5/B8); LTE-TDD(B34/B38/B39/B40/B41);
Location Time	<38s (Cold start, open sky)
Working Temperature	-20°C ~ +70°C
LED Indicator	GSM-green, GPS-blue, Power-red
Battery	200mAh
Dimension	99*58*18mm

1.4 LED indicators

GPS Indicator -- Blue	
Flashing (bright 0.1s, dark 0.1s)	Searching GPS signal
Always bright	GPS is fixed
Off	No GPS

GSM Indicator -- Green	
Flashing (bright 0.1s, dark 0.1s)	GSM network initializing
Slow flashing	Failed to connect with server

(bright 0.1s, dark 2s)	
Always bright	GPRS network connected
Off	No card was identified

Power status Indicator -- Red	
Flashing (bright 0.1s, dark 0.1s)	Battery low
Slow flashing (bright 0.1s, dark 2s)	Work normally
Off	Battery extreme low/Power off

2 GETTING START

2.1 Insert the SIM card

A Micro SIM card with GPRS and Caller ID functions is required to use cellular service when connecting to GSM network to provide locating information of the GPS tracker, install it before turn on the device.

- Remove the cover:



- Place the SIM card as the pattern shows:



- Toggle the battery switcher to ON:



- Replace the cover:



2.2. Device wiring diagram

Red Line	Positive
Black Line	Negative (Connect to Ground)
Orange Line (ACC)	Connect to ACC ON
Yellow Line (Fuel Control)	Connect to Relay

2.3. Install the device

- To avoid of theft or damage, please install the device in a hidden place.
- Avoid placing the device close to high power electrical devices, such as reversing radar, anti-theft device or other vehicle communication equipment.
- Device has built-in GSM & GPS antenna, please make sure the font side of device faces to sky, with

no metal object.

2.4. Set APN

Normally the device will search APN for you SIM operator automatically, but if you find your device cannot be online, please set APN by send SMS to device as:

apn,apnname,user,psw# (if there is no user name & password, leave blank)

e.g: **apn,epc.tmobile.com,,#**

2.5. Set center numbers

Center numbers are used to get the alarms' SMS & Calling from your device.

Set center numbers by sending SMS:

center,number1#

e.g: **center,16910***#**

3 APPLICATION

3.1 Web service platform

Please contact with your device supplier for Web service platform details to manage your device online.

3.2 App for mobile

Please contact with your device supplier for App download details to manage your device on your smartphone.

4 MAIN FUNCTIONS

4.1 Moving and Statics

In normal situation, the GPS tracker use the build in G-sensor to check itself is moving or not. Device changes into "Moving" status when the G-sensor detects 3 vibrations in 10s.

If there is no G-sensor or G-sensor is off, device check its status by moving speed. Device changes into "Moving" status when the speed is over 3km/h, or, the status of device is "Statics".

When device is

Moving: Upload the location data according preset time interval, 10s as default.

Statics: GPS is on, upload the heartbeat packet only.

4.2 Sleep mode

When the device into "Statics" for 5 minutes, device changes into "Sleep mode". During the "Sleep mode", device will

- Off the GPS and upload the heartbeat packet only.
- Wakes up when G-sensor detects 3 vibrations in 10s, and the speed is over 3km/h.

4.3 Cut off / Restore the Fuel/power supply

Cut off the fuel/power supply: To ensure the safety of the driver and vehicle, this operation available when the GPS is located and the moving speed is under 20km/h. Notice that if the device does not satisfy with these two conditions at the same time, the operation will be delay executed but not canceled.

Restore the fuel/power supply: Fuel/power supply can be restored on demand anytime.

4.4 Vibration alarm

When the device is in Arming status, a **Vibration alarm** will be triggered when the device detects 3 vibrations in 10s.

4.5 ACC alarm

When the ACC alarm detection is ON, an **ACC alarm** will be triggered after the ACC status changes for 5 seconds.

4.6 Over speed alarm

When the device is moving faster than preset overspeed detection setting, an **Over speed alarm** will be triggered.

4.7 Wired cut alarm

When the power wire of device is cut-off, a **Wired cut alarm** will be triggered after 5 seconds.

4.8 Battery low alarm

When battery voltage is lower than 3.4V, a **Battery low alarm** will be triggered.

4.9 External power voltage low alarm

When the voltage of external power is lower than preset value, an **External power voltage low alarm** will be triggered.

4.10 SOS alarm

In emergent case, press and hold the SOS button for 3 seconds can active the **SOS alarm**.

5 CONFIGURATIONS

Device supports SMS commands for all configurations in case you don't want to operate the device via GPRS network on web service platform.

Operation	SMS	Remark
Check location	Where#	Device reply with Latitude & Longitude
	123#	Device reply with address detail
	url#	Device reply with map link
Set GPS data upload interval	timer,time#	e.g: time,15#
Set APN	apn,apnname,user,password#	
Add center numbers	center,number#	e.g:center,13636361136#
Set heartbeat interval	Heart,time#	Unit: minutes e.g: heart,5#
Set time zone	timezone,-2#	+: East - : West

Enable ACC alarm	accalarm,on#	
Disable ACC alarm	accalarm,off#	
Cut-off the fuel/power supply	tc#	Available for center numbers only
Restore the fuel/power supply	tct#	Available for center numbers only
Set the calling time of alarm	call,n#	n=1~3 e.g: call,3#
Turn on vibration alarm	senalm,on#	
Turn off vibration alarm	senalm,off#	
Check vibration arming status	defense#	
Restart device	reset#	
Restore device	factory#	

to factory		
Check firmware info	version#	
Check status	status#	
Check parameters	param#	
Get the device location now	locatenow#	

6 Troubleshooting

6.1 After the first installation of the terminal, it has been unable to connect to the backend server and the backend displays that it has not been launched.

Please check the terminal installation:

6.1.1 Check if the main power supply wiring is correct, and be careful not to connect it to the internal control line of the car.

6.1.2 Please refer to the installation instructions for the correct installation of SIM.

6.1.3 Is the ACC ignition wire connected? After

connecting it, insert the car key to open ACC.

6.1.4 Check whether the GPS has been positioned. If not, please go to an open outdoor area for the first positioning.

6.2 The terminal displays offline status in the background.

Firstly, observe whether the indicator lights of the device are normal. In the absence of conditions for observation, you can first check the status of the card, as follows:

6.2.1 Call the SIM card number of the device to see if you can hear the sound of the phone being connected.

6.2.2 Is the vehicle in the basement without covering network signals.

6.2.3 Is the SIM card in arrears.

6.2.4 Query parameter settings to check if the IMEI number and GPRS transmission interval of the device are correct.

6.3 If the GPS has not been positioned for a long time, please check if the installation position of the terminal meets the requirements:

6.3.1 When installing the terminal, the GPS antenna

should face the sky.

6.3.2 The installation location above the terminal must be covered by substances (such as metal) that do not absorb electromagnetic waves.

When the GPS signal reception environment is poor (there are tall buildings blocking the GPS signal around), please drive to a place with open sky to locate. Generally, the first positioning time takes 1-2 minutes.

When 4g network signal reception is abnormal, please check whether the SIM card of the terminal is installed correctly; Alternatively, the location may not have network signal coverage (such as in a basement), please drive to a location with network signal coverage for use.

When a specific SOS phone number receives a power outage alarm message, determine whether it is illegal to cut the power cord. Otherwise, check if the fuse on the power cord has blown. If it has blown, contact your dealer to replace it with a FUSE of the same specification and model, and check and eliminate internal faults in the terminal before powering on and working again.