

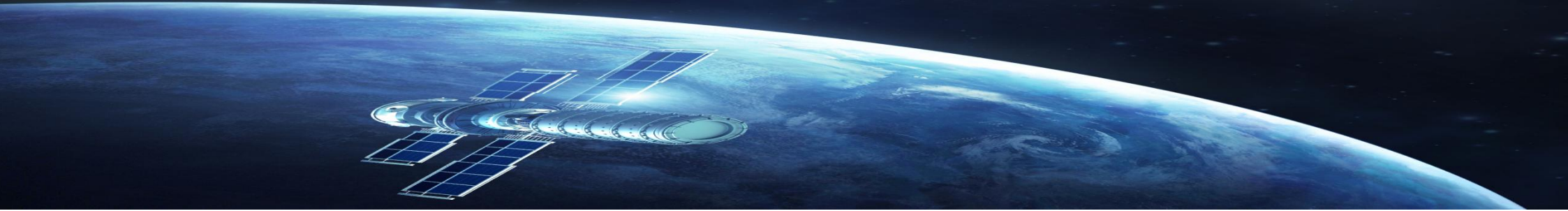
# 2G GPS TRACKER USER MANUAL (V2.1)



PROCDUT MODEL: V7

HUIZHOU AUTO-SALI TECHNOLOGY CO., LTD.

<https://autosaligps.com>



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## 01.Product Parameters

CLASS	FUNCTION	DESCRIPTION
<b>Electrical Features</b>	Mode of Power supply	Supply of power
	Operating voltage	DC 9V - 90V
	Working current	12V/Average 25mA
	Sleep current	12V/Less than 10mA
	Built-in battery capacity	55 mAh (Soft pack lithium battery)
<b>Environmental Features</b>	Range of operating temperature	-25°C - 75°C
	Range of storage temperature	-40°C - 85°C
	Range of operating humidity	10%-85% RH
	GSM/2G	850/900/1800/1900MHz



	Communication module chip	RDA8955L
	SIM Card	Micro SIM Card
	Antenna specifications	FPC
<b>Positioning Features</b>	Positioning module chip	AT6558R/HD8122
	Positioning mode	GPS&BDS
	Cold start time	60s
	Hot start time	15s
	Tracking sensitivity	-160dBm
	Antenna Type	Ceramic
	Antenna specification	18mm*18mm*2mm
	GPS frequency range	L1: 1575.42±1.023MHz
	BDS frequency range	B1: 1561.098±2.046MHz



	Number of satellite channels	Track: 22 Capture: 66
	Positioning accuracy	<10m (1 $\sigma$ )
	Timing accuracy	<30ns (1 $\sigma$ )
	Speed measurement accuracy	<0.1m/s (1 $\sigma$ )
	Maximum acceleration	4g
	Maximum speed	515m/s
	Maximum height	18000m
<b>Outside specification</b>	Size	77mm(L) *23mm(W)*12.5mm(H)
	Weight	23.6g
	Material	ABS
	IP Grade	IP65



## 02.Product Function

NO.	FUNCTION	DESCRIPTION
1	Real Time Tracking	More precise positioning with high performance chipset. Update position every 10 seconds with continuous tracking.
2	Historical Playback	Support up to 3 months' historical track, operate through platform or APP.
3	GEO Fence	After setting the area of the GEO Fence, APP will receive an alarm when entering or exiting this fence
4	Oil Remotely Cut Off	Remotely Cut off/supply fuel remotely through server or SMS.
5	ACC Detection	There will be an alert to users when ACC on or off.
6	Power off Alarm	Turn on backup battery, Power off will receive an alarm.
7	Over-speed Alarm	When vehicle is over speed, device will upload an alarm to the server.



8	Vibration Alarm	Turn on backup battery, the device will be in defense automatically after power off 5 minutes (time can be set), you will receive an alarm if it will vibrate.
9	Light Sensor Alarm	Once the tracker is removed, there will be light sensor alarm on your app, platform or SMS according to your setting.
10	Driving Behavior Detection	The driver's behavior report, such as rapid acceleration/deceleration and sharp turn, could be detected and generate on platform, see the overall behavior of your fleet.(This function can be turned on or off)
11	Collision Alarm	When the vehicle undergoes dangerous driving behavior such as sudden acceleration, sudden braking, sharp turns, etc., and a sudden vibration occurs, a collision alarm will be triggered.
12	Low power mode	The 3D sensor detects vibration status of device in real time, the device will change to low power mode after 3 minutes without vibration, close the GPS module, just upload heart beat package, when vibration is detected, the device changes to work mode automatically.



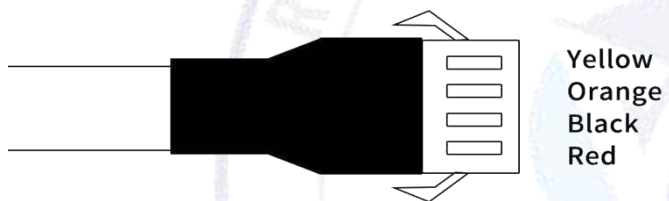
13	Blind Area Data Upload	Data will be stored up to 999pcs in places with poor signal, and upload stored data when signal is good.
14	Inflexion Upload	When the angle that vehicle turned is more than a setting scale it will send a location data soon to optimize the playback.
15	EPO Located For Assistance	The terminal supports the EPO assisted positioning function to enhance the positioning effect.
16	AGPS	Support AGPS, Capture signal quickly.
17	OTA	The software can be upgraded remotely and continuously optimized and updated to achieve a better user experience.





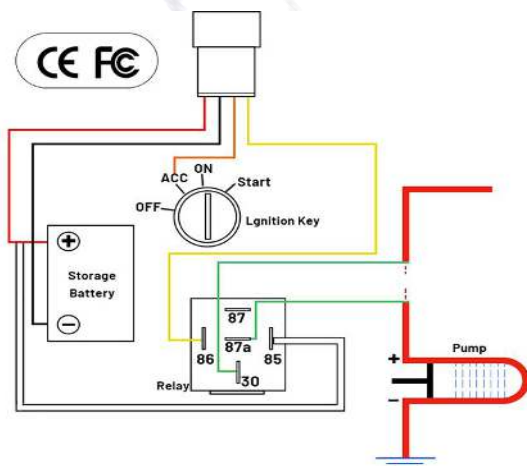
## 03.Product Installation Instructions

### 3.1 Device Wiring Definition



1	Yellow	Relay
2	Orange	ACC
3	Black	GND
4	Red	+9...90V

### 3.2 Product Wiring Diagram



### 3.3 Definition Of Light Indicator

COLOR	TYPE	STATUS	DEFINITION
Red Light	GSM	Light flashes quickly	GSM is in initialization.
		Light is always on	GSM communication is normal.
		Light is always off	Device is in sleep or shut down.
Yellow Light	GPS	Light flashes quickly	GPS signal is searching.
		Light is always on	GPS has been located.
		Light is always off	Device is in sleep or shut down.

### 3.4 Installation&Use

Steps for the correct use of device: Install→Start→Set→Register

#### 1. Install:

The GPS device should be installed at hidden position, keep away from emission sources (such as radar, anti-theft device and other vehicle communication equipment), and ensure that the GPS antenna front is upward, and there is no metal object above.

The recommended installation position as below:

- (1) Hidden place under the dashboard of the motorcycle;



- (2) Under the seat of the motorcycle;
- (3) Inside the tail light or inside the tail plastic parts or inside the headlight cover of the motorcycle;
- (4) The hidden place in the decorative panel under the front windshield of the car;
- (5) Hidden places around the front dashboard or under the rear windshield of the car.

### 2. **Start:**

You need to install the SIM card into the device in the correct direction (please activate the GPRS function of SIM card and make sure SIM card has charges; connect the wires according to the wiring diagram, and then switch on.

### 3. **Set:**

After the correct installation and start, set the settings according to the operation manual (command list page 10), suggested order for command:

ABOUTME# (check all parameters and status of device, if APN is null, please set correct APN by command)

CENTER,A,your phone number# (set your cellphone no. as center number to control the device, such as remotely cut off fuel).



4. Register:

Log in to the GPS tracker platform to view the location and status of the vehicle and perform related operations. (check more details on chapter 4.2 Platform Operating Instructions, page 12)

## 04.Product Operation Instructions

### 4.1 Common Command

NO.	DESCRIPTION	COMMAND FORMAT	FEEDBACK
1	Check all information.	ABOUTME#	IMEI: ICCID: Hardware: Software: APN:cmnet; Server:8.211.44.75#7700; TimeZone:E,8,0; Status:offline Speed:20km/h GPS: NETType:2G GSM CQS:28 Position Type:GPS The last position: The last position is Lat:N23.168617,Lon:E23.16817,DateTime:2023-01-06
2	Check parameters	PARAM#	IMEI:863014538374658;APN:cmnet;Server:8.211.44.75#7700 TIMER:10,10;Center Number:13612345678;TimeZone:E,8,0;



3	Check status	STATUS#	IMEI:863014538374658;External power:ON,11.81V; SPEED:12km/h; Status:offline ;ACC: ON;GSM Signal Level:H; GPS:Successful Positioning; GPS Signal Level:H;
4	Location query	WHERE#	Current Position!Lat:N23.168617,Lon:E23.168617,Speed:0KM/H,Date Time:6th-Jan-2023 10:52:49
5		URL#	<04-1110:24> http://maps.google.com/maps?q=+22.60058,+113.08069
6	Set APN.	APN,cmnet,,#	SET APN OK!
7	Set server IP&port	SERVER,ATSGPS,8.211.44.75,7700#	SET IP OK! IP:008.211.044.075,7700
		SERVER,ATSGPS,www.auto-sali.com,7700#	SET IP OK! IP:www.auto-sali.com,7700
8	Set & delete center number	CENTER,A,[phone number1],[phone number2],[phone number3]#	SET CENTER OK!
		CENTER,D1# / CENTER,D2# / CENTER,D3#	DEL CENTER OK!
9	Control Oil/Power	RELAY,0#	Restore Fuel :Success!
		RELAY,1#	Cut Off Fuel :Success!



## 4.2 Platform Operating Instructions

Users can log in to the GPS tracker platform to view the location and status of the vehicle and perform related operations.

### 1. Login and check on web platform:

Enter the URL *www.auto-sali.com*, If individual users, please log in with the device ID number and default password is:123456.

For enterprise users and fleet management users, please log in by users name. The user name and password are set by dealer, please contact the respective dealer to assign.

### 2. Login by mobile APP:

User can search the APP name(*ATS GPS*) in the App store to download.

If individual users, please log in with the device ID number and default password is:123456.

For enterprise users and fleet management users, please log in by users name. The user name and password are set by dealer, please contact the respective dealer to assign.



## 05.Trouble Shooting

COMMON PROBLEM	REASON	SOLUTION
Poor signal reception	Using the terminal in areas with poor reception, such as near high-rise buildings or underground parking lots, radio waves cannot communicate effectively.	Please drive to open air place and run for 10 mins.
First time installation platform display not activated	SIM card not installed.	Install the SIM card correctly.
	Indicator light does not shine.	To charge.
	Indicator light flashes.	Detect SIM card status.
	SIM card is not enabled GPRS function.	Please contact the sim card provider to activate the network function.
Platform map display incorrect location	GPS not fixed.	Please drive to open air place and run for 10 mins.
	The terminal has been standing still after installation.	Take the terminal outside and run a few laps.
Platform shows offline status	The SIM card is overdue or out of charge, or network function is turned off.	Detect SIM card status.
	Weak signal in drop zone.	Please drive to open air place and run for 10 mins.





# WARRANTY CARD

## Special statements

1. If there is any technical modification for this product in the future, no further notice.
2. If the appearance or color of the product were changed, please refer to real product.
3. The warranty card is only applicable to product with IMEI number listed as below.
4. Please keep this card in good condition, please present this card and the original purchase receipt when you apply warranty.
5. Please refer to the table below for the warranty range.

This card is the basic proof of the warranty, please fill in the card carefully and keep it in good condition.

User Name		Telephone Number	
Address			
Model		IMEI	
Purchasing Date		Commercial Invoice No.	
Seller Name			
Seller Add.			
Seller Tel.			

The non-human damage failure is guaranteed for 3 year since the date of purchase. Any of the following conditions is not covered by the warranty, but can be repaired if you pay the cost:

- (1) Exceeding the warranty period;
- (2) Damage caused by unauthorized disassembly or repair without the authorization of our company;
- (3) immersed in water and the circuit board was burnt;
- (4) Damage caused by improper installation, use, maintenance or storage;
- (5) damage of outer casing caused by the improper use;
- (6) The IMEI number of the product is torn or blurred;
- (7) The warranty card and product model No. not match, or the warranty card was altered;
- (8) Damage caused by force majeure.