

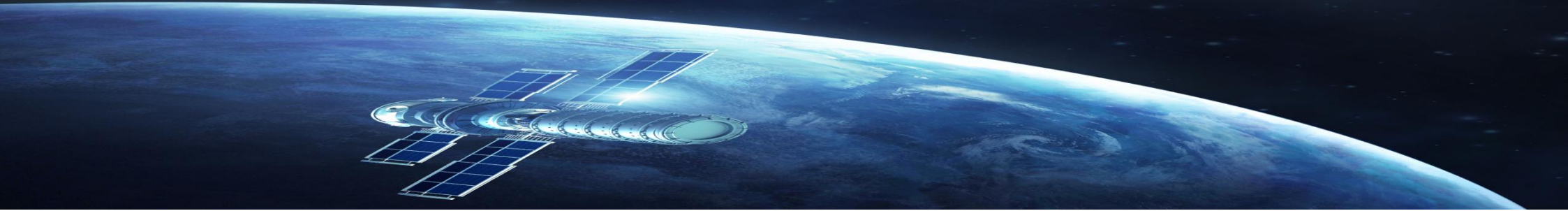
2G GPS TRACKER USER MANUAL (V2.1)



PROCDUT MODEL: AT05

HUIZHOU AUTO-SALI TECHNOLOGY CO., LTD.

<https://autosaligps.com>



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01.Product Parameters

| CLASS | FUNCTION | DESCRIPTION |
|-------------------------------|--------------------------------|------------------------------|
| Electrical Features | Mode of Power supply | Supply of storage battery |
| | Operating voltage | DC 3V |
| | Built-in battery capacity | 3000mAh (Li-MnO2 battery/) |
| | Average standby current | <4mA |
| | Average working current | <55mA |
| | Standby time | 3 years@work 2mins every day |
| Environmental Features | Range of operating temperature | -20°C ~70°C |
| | Range of storage temperature | -40°C ~ 85°C |
| | Range of operating humidity | 5%-95% RH |



| | | |
|-----------------------------|---------------------------|----------------------|
| | GSM/2G | 850/900/1800/1900MHz |
| | Communication module chip | UBLOX |
| | SIM Card | NANO SIM Card |
| | Antenna specifications | FPC |
| Positioning Features | Positioning module chip | AT6558 |
| | Positioning mode | GPS&BDS |
| | Cold start time | 32s |
| | Hot start time | 1s |
| | Tracking sensitivity | -162dBm |
| | Antenna Type | Ceramic |
| | Antenna specification | 18mm * 18mm * 6mm |
| | GPS frequency range | L1: 1575.42±1.023MHz |



| | | |
|------------------------------|----------------------------|------------------------------|
| | BDS frequency range | B1: 1561.098±2.046MHz |
| | Positioning accuracy | <15m (1σ) |
| | Timing accuracy | <30ns (1σ) |
| | Speed measurement accuracy | <0.1m/s (1σ) |
| | Maximum acceleration | 4g |
| | Maximum speed | 515m/s |
| | Maximum height | 18000m |
| Outside Specification | Size | OD31*83mm(L) |
| | Weight | 66g |
| | Material | Medical Grade Shell Material |
| | IP Grade | IP68 |



| | | |
|------------------|--------------------------|--|
| Work Mode | Tracking mode | <p>This mode is used for real-time tracking or engineering testing after the cattle are lost, and the tracking time and upload interval are set through the command, which can be turned on around the clock, but it consumes more power.</p> |
| | Timed power-on work mode | <p>User can set power-on time and number of power-on and power-on interval on request. For example,:</p> <p>(1)command <i>pwontime,123456,8,20,24,1</i>, means device work on 8:20, and work for 5 minutes, power-on every 1 hour;</p> <p>(2)command <i>pwontime,123456,10,00,1,24</i>, means device work for 5 minutes on 10:00 everyday.</p> |



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 | Blind Area Data Upload | Data will be stored up to 999pcs in places with poor signal, and upload stored data when signal is good. |
| 5 | 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. |



| | | |
|---|-------------------------------|--|
| 6 | EPO Located For Assistance | The terminal supports the EPO assisted positioning function to enhance the positioning effect. |
| 7 | AGPS | Support AGPS, Capture signal quickly. |
| 8 | Multi-ple Smart Working Modes | Device have tracking mode and Timed power-on work mode. This mode is used for real-time tracking or engineering testing after the cattle are lost. Timed power-on work mode is used for daily use. |
| 9 | Long standby | 3 years long standby without charging, save more labor cost and energy for battery. |

03.Product Installation Instructions

3.1 Definition Of Light Indicator

| COLOR | TYPE | STATUS | DEFINITION |
|-----------|------|-----------------------|------------|
| Red Light | GSM | Light flashes quickly | Searching |



| | | | |
|------------|-----|-----------------------|-----------|
| | | Light flashes slowly | GMS is OK |
| Blue Light | GPS | Light flashes quickly | Searching |
| | | Light flashes slowly | GPS is OK |

3.2 Installation&Use

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

1. Prepare:

Check the accessories to make sure the device has power.

2. Start:

You need to install the SIM card into the device in the correct direction (please active the GPRS function of SIM card and make sure SIM card has charges; and then switch on.)

3. Set:

After the correct installation and start, set the settings according to the operation manual (command list page 8), suggested order for



command:

param,123456 (check all parameters and status of device, if APN is null, please set correct APN by command)

Admin,123456,1,your phone number (set your cellphone no. as center number to receive the alarm).

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 10)

04.Product Operation Instructions

4.1 Common Command

| NO. | DESCRIPTION | COMMAND FORMAT | FEEDBACK |
|-----|------------------|----------------|---|
| 2 | Check parameters | param,123456 | ID:860016028471642 IMEI:860016028471642 APN:cmnet IP:8.211.44.75:7700 Interval:30(AccOn),60(AccOff) MODE:2 |



| | | | |
|---|----------------------------|----------------------------------|--|
| | | | GPRS ENABLE:1 Time zone:0.0 Admin[1]:Admin[2]:Admin[3]: |
| 3 | Check status | status,123456 | ID:860016028471642 Mileage:0 V-bat:4.11V GSM:100 GPS Sat:7 |
| 4 | Work Mode | tracking,123456,0,45 | Tracking setting ok! |
| | | pwontime,123456,10,00,1,24 | Power on setting ok! |
| 6 | | Url,123456 | http://maps.google.com/maps?q= +22.60058,+113.08069 |
| 7 | Set APN. | APN,123456,cmnet | APN setting ok! |
| 8 | Set server IP&port | ip,123456,8.211.44.75,7700 | IP and port setting ok! |
| | | ip,123456,www.auto-sali.com,7700 | |
| 9 | Set & delete center number | Admin,123456,1,13760116666 | Admin phone number setting ok! |
| | | Admin,123456,1,d | Admin phone number delete ok! |



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.