

2G GPS TRACKER USER MANUAL



PROCDUT MODEL: V7

HUIZHOU AUTO-SALI TECHNOLOGY CO., LTD.

<https://ats-gps.com>

1.Product Parameters

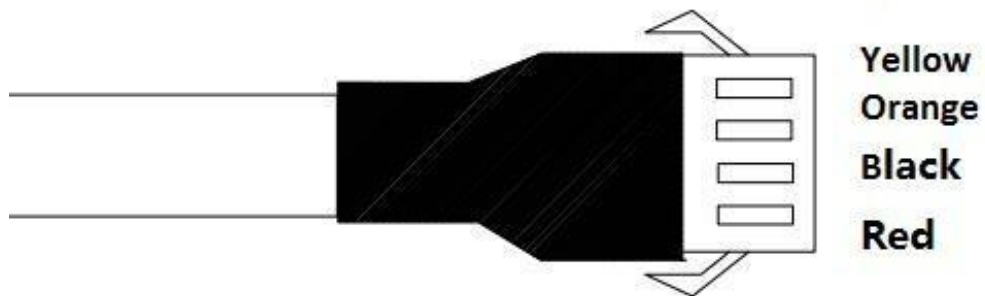
CLASS	FUNCTION	DESCRIPTION
Electrical Features	Mode of Power supply	Supply of power
	Operating voltage	DC 9V - 90V
	Working current	12V/Average 25mA
	Sleep current	12V/Less than 10mA
	Built-in battery capacity	55 mAh (Soft pack lithium battery)
Environmental Features	Range of operating temperature	-25°C - 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
Positioning Features	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 (1σ)
	Timing accuracy	<30ns (1σ)
	Speed measurement accuracy	<0.1m/s (1σ)
	Maximum acceleration	4g

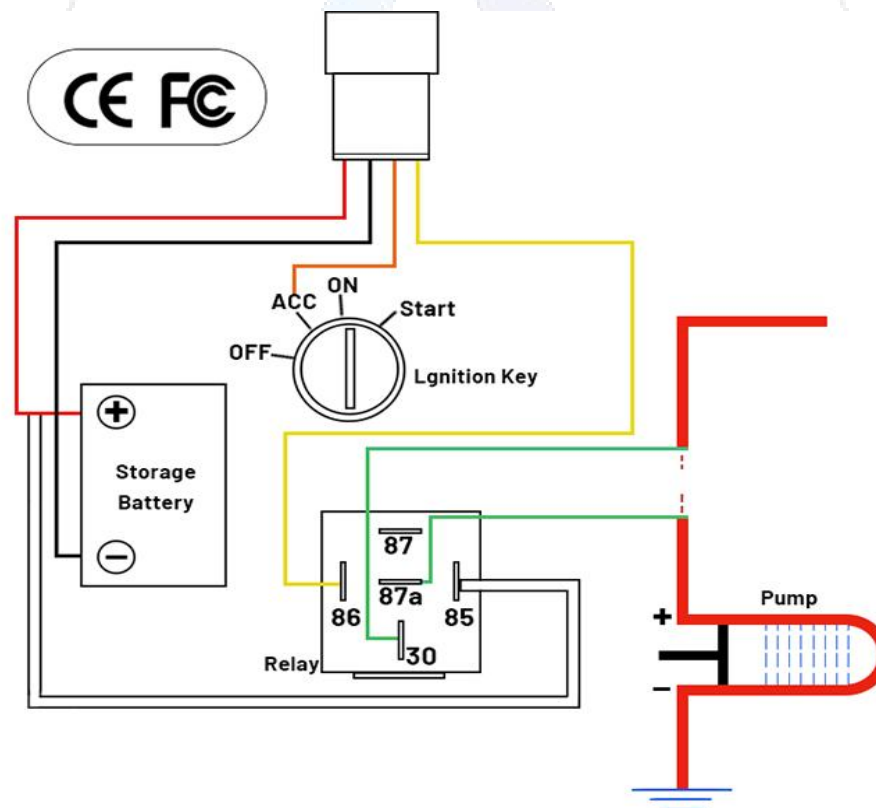
	Maximum speed	515m/s
	Maximum height	18000m
Outside specification	Size	77mm(L) *23mm(W)*12.5mm(H)
	Weight	28g
	Material	ABS

2. Device Wiring Definition



No.	Colour	Interface Definition
1	Yellow	Relay
2	Orange	ACC
3	Black	GND
4	Red	+9...90V

3.Product Wiring Diagram



4. 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.

5.Product Function

NO.	FUNCTION	DESCRIPTION
1	Real Time Tracking	Positioning information such as latitude and longitude is returned according to the set interval.
2	Historical Playback	You can view the trajectory of the device in the past 6 months through the mobile APP and platform.
3	GEO Fence	After adding the name of the GEO Fence, you can choose any point as the center, and the radius distance from 100m to 5000m can be set.
4	Oil Remotely Cut Off	Cut off/supply fuel remotely through server or SMS.

5	ACC Alarm	ACC on/off will receive an alarm, default is off, you can turn on or off through SMS.
6	Power off Alarm	Turn on backup battery, Power off will receive an alarm. Default is on.
7	Over-speed Alarm	Set the maximum speed limit value on the platform or SMS, when the GPS speed is more than the value, you will receive an alarm. Default is off, you can turn on or off through SMS.
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 continuously for 5 times. Default is off, you can turn on or off through SMS.
9	Light Sensor Alarm	It is used to improve the anti-dismantle alarm and reduce the false alarm rate of demolition. a. The visible light is generated first, and the power down within 2 minutes, and the

		terminal reports the alarm; b. Power down first, see light within 2 minutes, the terminal reports the alarm. Default is on.
10	Driving Behavior Detection	The device can detect your driving behavior, such as sharp acceleration, sharp deceleration, sharp turns, collision alarm and you can control the function on or off via SMS. Default is off.
11	Blind Area Data Updating	The data is stored up to 999pcs. if the terminal is located and not online, upload this data when the signal is good.
12	Inflection Data Updating	When the angle of the vehicle turns is more than a certain angle, the device will upload a position information to the platform to optimize the trajectory.

13	EPO Assisted Positioning	The terminal supports the EPO assisted positioning function to enhance the positioning effect.
14	AGPS	Support AGPS, Capture signal quickly.
15	OTA	Support OTA.

6.Product Common Command

NO.	DESCRIPTION	COMMAND FORMAT	FEEDBACK
1	Check parameters.	PARAM#	IMEI:863014538374658; APN:cmnet; Server:8.211.44.75#7700; TIMER:10; Center Number:13612345678 TimeZone:E,8,0;
2	Location query.	URL#	<04-1110:24> http://maps.google.com/maps?q=+22.60058,+113.08069
3	Reset the device.	RESET#	The device will restart after 20s.
4	Set APN.	APN,cmnet,,#	SET APN OK!
5	Set server IP&port	SERVER,ATSGPS,8.211.44.75,7700# SERVER,ATSGPS,www.auto-sali.com,7700#	SET IP OK! IP:008.211.044.075,7700#

7.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.	Use the terminal in a location with good signal.
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 service provider to activate the network function.
Platform map display incorrect location	GPS not fixed.	Please go to the open space for positioning.
	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 in arrears or then network function is turned off.	Detect SIM card status.
	Weak signal in drop zone.	Please go to a place with strong signal to test.

8. FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.