1. Overview

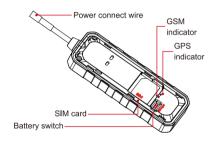
1.1 Main Functions

- · GPS + LBS positioning
- Geo-fence Vibration / Displacement alarm
- · Compact and lightweight

1.2 Specifications

Frequency	GSM 850/900/1800/1900MHz
GPRS	Class 12, TCP/IP
Location accuracy	<10 meters
TTFF (open sky)	Avg. hot start ≤1sec
	Avg. cold start ≤32sec
Battery	100mAh/3.7V industrial grade li-ion
	polymer battery
Working voltage/current	9-90VDC/32mA(12VDC),18mA(24VDC)
Standby current	≤5mA
Operating temperature	-20℃— +70℃
Dimension	73.8(L) x 25.9(W) x 12.2(H) mm
Weight	26.6g

2. Overview



A=ON/OFF, default:ON;

3: GPRS+ call, default: 1; T1=2~60 (second), power off detect

time, default: 10;

time default: 0;

3. POWERALM#

2. POWERALM, OFF#

Turn off the power alarm.

M=0/1/2/3, way of alarming.

0: GPRS only, 1: SMS+GPRS, 2 : GPRS+SMS+phone call,

T2=1~3600 (second), default: 300:

T3=0~3600 (second), ACC ON to

OFF status step alarm prohibition

Check the parameters of the alarm.

2.2 Device

- GPS tracker
- User Manual
- Power cable
- Mileage

· IPX5 waterproof

2.1 Device

• 12V/24V relay (optional)

2.3 LED Indicator

Blue LED

Status	Meaning
Flash quickly	Searching signal
Solid blue	Positioning succeed
Dark	Sleep/Dormant

Green LED

Status	Manadan
	Meaning
Quick flashing	Search network
Slow flashing	Normal network signal
Solid green	Calling/Online
Dark	Abnormal network/No SIM card

LED indicator will be OFF when device electrified for 5 minutes. LED can be controlled by platform and APP.

3. SIM card

SIM card should have access to GPRS. Before SIM card installation, ensure external power is disconnected and battery switch is on OFF.









turn battery switch to ON

When SIM card inserted

Connect to external

Open top cover and turn battery switch to ON. Terminal starts

then power indicator lights up and battery is charging.

up by using backup battery. Connect the device to external power.

Power off

Unable to Low battery

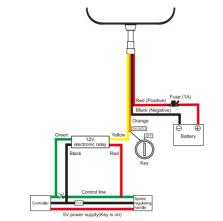
Power on

Disconnect external power and turn battery switch to OFF. Power LED is off and charging stop after device power off.

1. Find the notch and remove bottom cover

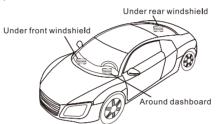
2. Insert the SIM card as shown below

4. Wiring Instruction



5. Installation

Please install the device under the guidance of professional



The device should face up to the sky

Metal thermal barrier or heating layer of the windshield affects the signal. Please change installation places to receive better signal.

6. Platform & APP

6.1 Login service platform

Please login the designated service platform to set and operate

6.2 Download APP

Please download and install the APP in designated website, APP store or Google Play store.

7. Main Functions

7.1 SOS

3 SOS phone numbers can be set. Alerts will be sent to pre-set SOS number

(1) Add SOS number.

Send SMS command to the terminal. Command format: SOS.A.phone number 1.phone number 2.phone number 3#

"A" means to add new numbers, for example: SOS.A.18165542975.18165542976.18165542977# It will reply

"OK! SOS1: 18165542975 SOS2: 18165542976 SOS3: 18165542977"after set successfully.

(2) Delete SOS number.

Command:

Send SMS command: SOS, D, phone number 1, phone number 2,

(3) Check current SOS number. Command: SOS#

7.2 Multiple Alarms

Power cut-off alarm

When the electricity supply of device is cut off, alarm message will be sent to platform and SOS number.

Respond example: SOS1: 12352***, SOS2: 132532***,

Low battery alarm

When backup battery is low, alarm message will be sent to platform and SOS number

Displacement alarm (Default OFF)

Device will send movement alarm when vehicle moves out the pre-set distance.

Overspeed alarm (Default OFF)

Speed limitation can be set in platform or by SMS. When vehicle's speed exceeds the pre-set value, overspeed alarm will be sent.

Vibration alarm (Default OFF)

Device is in defense status if vibration alarm turned on. When vehicle vibrates several times, the vibration alarm will be triggered.

7.3 Remote Restart

Restart the terminal in platform or send SMS command. SMS command: RESET#

8. Frequently Used Command List

	1	Check device status	STATUS#
ı	2	Get device GPS	WHERE#
		latitude/longitude	

1, URL# 8 Low battery alarm 1. BATALM, [A], [M]# 3 Check device 2. POSITION location in Google A=ON/OFF. default:ON: Map link M=0/1, way of alarming, 4 SOS number setting 1. Add SOS number: 0: GPRS only, 1: SMS+GPRS SOS,A,number 1,number 2. BATALM,OFF# 2.number 3# 3. BATALM# Example:SOS,A,12342***,134533*** Check the parameters of the alarm. 135432***# 9 Overspeed alarm 1. SPEED,[A][,B][,C][,M]# 2. Delete the SOS number: A=ON/OFF, turn on/off overspeed SOS,D,phone number# alarm. Default: OFF 3. Query SOS number: B=5~600 (second),time interval. SOS# default: 20 (second) 5 Vibration alarm 1. SENALM.ON# C=1~255(km/h), speed limit, (Default OFF) 2 SENALM OFF# default: 100(km/h): Displacement alarm 1. MOVING,ON,R, M# M=0/1, alarm method, 0: GPRS only, (Default OFF) R=100~1000; Movement radius, 1: SMS+GPRS, default: 1 unit: meter 2. SPEED# M=0~3; 0: only GPRS; Check the parameters of over speed. 1. SMS+GPRS 10 Restart 2: GPRS+SMS+CALL; Device restart 20 seconds after 3: GPRS +CALL; Default: 1 receiving this command 2. MOVING.OFF# 1. POWERALM, [A],[M],[T1],[T2], Troubleshooting Power cut-off alarm IT31#

If you are having trouble with your device, try these troubleshooting procedures before contacting a service professional.

Problems	Causes	Solutions
Poor signal	The signal waves are	Using the GPS tracker
	unable to transmit	in the places that have
	when use the GPS	good signal condition.
	tracker in the places	
	that have poor signal	
	reception, such as: tall	
	building around or	
	basement.	
	Device covered by	Device face up or
	metal objects or face	installed in somewhere
	down	else

boot		power supply to charg
	Fusing	Contact supplier to replace fuse
Unable to connect to	SIM card inserted incorrectly	Insert SIM card again
the network	Dirty things exist above the SIM card	Clean SIM card
	Damaged or invalid SIM card	Replace SIM card
	Not in GSM service area	Move to service area
	Poor signal	Move to area with strong signal
Charge failure	Poor contact	Ensure device power wire connection
Fail to locate	SIM has no access to GPRS	Contact network supplier to get GPRS service
	SIM card charges owed	Charge
Parameters modification	Command format error	Edit and send the command again
failure	No reply after sending command	Check network and ensure SMS available

Warranty instructions and service

1. The warranty is valid only when the warranty card is properly completed, and upon presentation of the proof of purchase consisting of original invoice indicating the date of purchase, model and serial No.of the product. We reserve the right to refuse warranty if this information has been removed or changed after the original purchase of the product from the dealer. 2. Our obligations are limited to repair of the defect or replacement the defective part or at its discretion replacement of the product

3. Warranty repairs must be carried out by our Authorized Service Centre, Warranty cover will be void, even if a repair has been attempted by any unauthorized service centre. 4. Repair or replacement under the terms of this warranty does

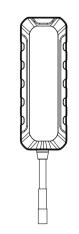
not provide right to extension or renewal of the warranty period. 5. The warranty is not applicable to cases other than defects in material, design and workmanship.

Maintenance Record

Date	Serviced by	
Product Model		
IMEI Number		
Fault Descriptions		
Comments		

Vehicle GPS Tracker User Guide

(Version 2.2)



To ensure quickly and correctly use, please read this manual carefully before using. Any changes to the product appearance, color or accessories are without notice.

Avoid placing the device somewhere that metal will be

One side of the device is marked "THIS SIDE TOWARDS SKY", place the unit upside down will result in connection