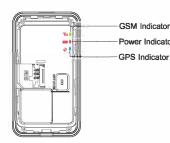
Introducing Your Device

Learn about your device's layout, indications and specifications.

1. Inside the Box

- Check your product box for the following items:
- ▶ Charging cable
- ▶ Relay socket ▶ User manual

2. Overview



Power indicator (red)	Indication
Quick Flashing (flash 0.3s at interval of 0.3s)	Low battery
Solid red	Charging
Flashing (flash 1s at interval of 3s)	Full charge
OFF	Power off or low battery
Slow flashing (flash 0.1s at interval of 3s)	Working normally

	GPS indicator (blue)	Indication
	Flashing (ON:0.3S, OFF:0.3S)	Searching GPS signal
	Slow flashing (flash 0.1s at interval of 3s)	Receive GPS signal normally
	OFF	No GPS signal

	GSM indicator (green)	Indication
	Quick Flashing (flash 0.3s at interval of 0.3s)	GSM initializing
	Flashing (flash 1s at interval of 3s)	Receive GSM signal normally
	Solid green	In communication with phones
	OFF	No GSM signal or no SIM card
	Slow flashing (flash 0.1s at interval of 3s)	GPRS on line

3. Specifications

J. Specification	•
Dimension	78.0(L) x 41.0(W) x 13.0(H) mm
Weight	38g
Working voltage	9-90V
Backup Battery	270mAh / 3.7V

LED Indications

ower indicator (red)	Indication
Quick Flashing (flash 0.3s t interval of 0.3s)	Low battery
olid red	Charging
lashing (flash 1s at nterval of 3s)	Full charge
)FF	Power off or low battery
low flashing (flash 0.1s t interval of 3s)	Working normally

luications	
r indicator (red)	Indication
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red	Charging
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flashing (flash 0.1s erval of 3s)	Working normally

1.Open the SIM card cover

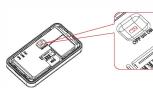


2.Insert the SIM card.



SIM card should be equipped with GPRS and SMS

3.Tum the battery switch to ON.

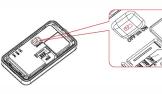


4. Close the SIM card cover and connect the device with the external power line which will be used to charge the terminal and built-in battery.



4.2 Switch off

1.Toggle the battery switch to OFF.



4.3 Charge the device

Plug the device connector into a charging cable. The charging cable with 1A FUSE for short-circuit over current protection.



Improperly connecting the charging cable can cause serious damage to the device. Any damages by misuse are not covered by the warranty.

4.4 Install the device

You need to choose somewhere that it won't be found.

- 1. Your device has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up; any high power devices such as reversing radar, anti-theft device or communication equipment
- would affect the signal of the device. 2. All metallic cases of the windshield will attenuate the signal on the tracking device. It's simply due to the
- shielding effects of the metal compound of the case. 3. The device should be fixed into position with cable ties or wide double-side tape.



Under the dash board below the front windshield;

- In the parcel shelf in the rear,

Installation please refers to below picture

Inside the

taillight cover or the plastic

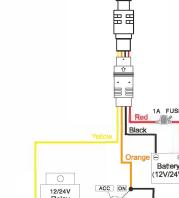
- In the front bumper (non-material face), make sure the device does not get wet; Under the wiper version (non-metal), make sure the
- device does not get wet:
- Non Covert Installation fix the device on the dash board below windshield.

Device Wiring

1. Since the recharging voltage can be much higher than the working voltage, for your safety, please use with vehicle battery voltage no more than 72V. The red wire is

Inside the

the positive, the black wire is the negative. Connect the black wire to ground. 4.5 Device wiring diagram



is no more than 72V and relay remains 12V / 24V.

SMS command to the device to add the SOS number. "A" means to add new numbers, for example: It will reply

4.6 Power/ACC/Tele-cutoff(petrol/electricity) control

1. Your device comes with a power cord and is designed

to use only manufacturer-specified original device. The

red line is positive while the black one is negative (the

side should not be connected with ground wire).

2. The ACC line (orange) connects to ACC switch of the

otherwise the device won't enter ignition detection

3. Tele-cutoff (petrol/ electricity) control line (yellow) is

electricity) relay (equal to the yellow line of the relay

To properly use the device, common parameters should

be set before initial use. This can be done by using the

parameter editor or by sending SMS commands to the

device. (", "should be English comma and no space before

connected to pin 86 of the Tele-cutoff (petrol/

5. Quick Operation Instructions

status when disconnect the ACC line. If you don't need

to anti-theft temporarily, just connect the ACC line to

vehicle. Please be sure to connect the ACC line;

the positive side in parallel.

"OK! SOS1: 18165542975 SOS2: 18165542976 SOS3: Please pay attention to the diagram description battery

after set successfully.

5.1 Add SOS number

5.2 APN setting

To ensure GPRS is activated, please make sure APN is correct. You can send SMS command to set APN: APN command format: APN, APN's N E.g: APN,internet# ("internet" is the APN of carrier) The device will reply "OK" if setting successfully.

Note: The APN of some countries have user name and password, you may need to send SMS command as following: APN,APN name,user name,password#

5.3 Server setting

Default platform is www.tracksolid.com To connect to other platform, please send the SMS command to change the DNS or server IP: E.g: SERVER,1,gpsdev.tracksolid.com,21100,0#

It will reply "OK" after set successfully.

5.4 Set the center number

If you want to cut off/restore oil by SMS command, you have to set a center number firstly. Only the center number can send the cut off/restore oil command to the device. You can set your own mobile number as center

The command for setting center number is:

If set successfully, there is an "OK" reply message.

number can be set.

Only the SOS number can be used to add or delete center number successfully. There is only one center

5.5 Locator Data Upload Interval

Users can modify GPRS uploading time interval by SMS

T1 ranges 5~18000 or 0(seconds), upload interval when ACC ON, 0 means no upload, default is 20; T2 ranges 5~18000 or 0(seconds), upload interval when ACC OFF, 0 means no upload, default is 20.

5.6 Arming time setting

Delay time for device entering arming state after the vehicle power is off and ACC is in low-level. In the arming state, if the vehicle vibrates for a few times, it will activate the vibration alarm system. If the vehicle battery is still not on (ACC is in low level) after 3 minutes, the device will start vibration alarm. SMS format:

The time ranges from 1 to 60 minutes, default is 1.

1. Preset SOS numbers before sending SMS alarm messages and calls.

2. If there is no need for vibration alarm, please SMS SENALM,OFF# to close it.

5.7 Check parameter setting

You can check the parameter setting by command:

Example: PARAM

Information replied: IMEI:358735070292023; TIMER:20,20; SENDS:3; SOS:,,; Center Number:: Sensorset:10.3.5.1: Defense time:1: TimeZone:E.8.0:

uploading Interval, GPS working time, SOS number,

The replied information contains IMEI number, GPS data

1.1 SMS "WHERE#" to the SIM number of device. The device will send a location message automatically. You

center number, sensor time interval, defense time and

5.8 Check GPRS parameters

Operation Temperature

Standby Time

GPS Channel

GPS Sensitivit

Acquisition Sensitivit

Position Accuracy

TTFF (Open Sky)

GSM/GPS Antenna

Geo-fence Alarm

Speeding Alarm

Low Power Alarm

4. Getting Started

4.1 Switch on

LED Indicator

GSM Frequencie

-20°C - 70°C

20% - 80%

Class 12, TCP/IP

Hot Start: <1s

Built-in design

specified area

running out

Get started by assembling and setting up your device for

the pre-set value. Alarm when backup battery is

TCP SMS

850/900/1800/1900 MHz

GSM-green, GPS-blue. Power-red

Alarm when get in or get out a

Report when speeds higher than

Movement alarm based on built-in 3D motion sensor

Cut off petrol/electricity

Track by time/distance interval

60 hours

SMS command format:

Example: GPRSSET:

Reply message: GPRS:ON; Currently use APN:cmmtm,,; Server:1, GPSDEV.TRACKSOLID.COM,21100,0;

URL:http://maps.google.com/maps?q=;

6. Operation of device

6.1 Power on/ Power off

Power on: Once insert a valid SIM card and connect all the wires, turn on the device, then Power LED will flash first, during signal searching process, GSM and GPS LED will flash. Once GPS LED keeps slow flashing, it means the device has been located and it starts to work. Power off: Just turn off the power switch.

The device will begin to upload positioning data to server once inserting a valid SIM card and power on. During the working time, it can upload data to server every 10

To power on / power off, please remove the back cover first, refer to 4. Getting Started.

6.2 Check location 1. Via SMS

can get the coordinates. If the device does not search any information of location, it will send "No data" to the cell

Current position!

Lat:N22.577156,Lon:E113.916748,Course:131.99,Speed:0. 00Km/h.Date

Time:2013-10-08 17:35:32

1.2 SMS "URL#" to the SIM number of device. The device will send a location Google Map link. If the device does not search any information of location, it will send "No data" to the cell phone.

Example: <10-08

17:36>http://maps.google.com/maps?q=N22.577156,E1 13.916748

2. Via platform

Go to the platform website offered by dealers to check

your vehicle location. 6.3 Wire cut-off alarm

When the electricity supply of device is cut off, it will activate cut-off alarm. In this case, the device will send related SMS to the SOS numbers and dial the numbers in circles. If nobody answers, the call just keeps 3 loops at most. At the meantime, the device will upload power cut off alarm data to the server. And it will send: Cut Power! < Date Time: 13-06-17 14; 53; 06>, http://maps.google.com/maps?q=N22576713,E113.9165

The SOS numbers should be preset, please refer to 5.1.

When the device is only working with battery, once the internal voltage of battery is less than 3.7V, device will send low battery alarm SMS to SOS number and alarm on

Low battery alarm SMS content

example: "Attention!!!Battery is too low, please charge." Which means the battery is too low, inform user charging

The SOS numbers should be preset, please refer to **5.1**.

6.5 Vibration alarm

The vibration alarm function is off by default. To activate this function, please send the following command:

ACC OFF & in arming state

If 5 times (times can be set) of vibration detected in 10 seconds, 1) ACC OFF in the following 30 seconds, the device will send vibration alarm. 2) ACC ON in within 30 seconds, no vibration alarm will be triggered.

1. The SOS numbers should be preset. 2. Send "SENALM, OFF#" to tum off the vibration alarm

6.6 Oil cut-off 1. via platform

Send oil cut-off command on platform. To make sure the security of vehicle, tracker can only indicate to cut off oil

when GPS is in valid position status, and the speed is less than 20KM/H or in static. Platform account password is

2. Via SMS Firstly, you should set a center number. Please refer to 5.4. Only center number can send the command to the device

needed when sending oil cut off command.

to cut off and restore oil. The format is: RELAY,1# After the command is carried out, it will reply "Cut off the

fuel supply: Success! Speed:0 Km/h". If the command didn't carry out, it will reply the reason about fail to carry

To ensure the safety of the driver and the car, this command is valid only under two conditions: the GPS is located; the speed is less than 20km/h.

6.7 Restoring Oil 1. Via platform

cut off command.

When the alarm is off, sending recover oil commands manually. Device will restore oil supplying, and vehicle will work normally again. Platform account password is needed when sending oil

Only center number can send the command to the device to restore oil.

The format is: RELAY,0# After the command is carried out, it will receive "Restore fuel supply: Success!"

6.8 Over Speed Alarm

When the car is moving over a limited speed in average in a limited time period, then the device will send over

speed alarm SMS to user. To turn on the over speed function, please send below SMS command:

Time range (Second): 5-600s (default as 20s). Limited speed range (km/h): 1-255, default: 50. Way of alarm: 0, GPRS only; 1, SMS+GPRS; default: 1. Means when the car is moving over 50km/h in average in

10 seconds, the device will send over speed alarm to user.

6.9 Restore to factory setting

SMS command format: "FACTORY#" to set all parameter to default factory value. Once received "OK! The terminal will restart after 60s!", it succeeds.

6.10 Reboot device

When there is something wrong with the link of GPRS, e.g., the parameter setting of the device is correct, but you can't track the car on the platform. At this moment you can send a command to the device to reboot the device. The format is: RESET# After receiving this command, the device will reboot after 20 seconds

7. Platform

id.com by account name and passord. The function on the GPS platform can be realized as follows:

▶ Real-time Tracking

Red LED does

when power

 Report and Statistics ▶ Online Configuration

8. Troubleshooting If you are having trouble with your device, try these

not work The fuse blows

Bad signa

unsuitable

The voltage is

Improper connection

troubleshooting procedures before contacting a service professional. Problems Causes

connected Check SIM card Wrong installation of installation (▶ 4.1 Install SIM card) Fifth on the SIM card Clean it Check installation of Improper installation device(▶ 4.4 Install the Use it in effective GSM Bevond GSM service service offer area

Try again in a better

Connect with power

with suitable voltage

Check connection with

signal area



User Manual



This device is only for use with 12V, 24V, 36V, 48V, or 72V One side of the device is marked "THIS SIDE TOWARDS SKY", place the unit upside down will result in connection Avoid placing the device somewhere that metal will be

General Vehicle GPS Tracker

(Version 1.2)