Introducing Your Device

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

1. Inside the Box

- Check your product box for the following items:
- ► Device
- ► Charging cable
- Relay
- ► 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

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

Operation Temperature	-20°C - 70°C
Humidity	20% - 80%
Standby Time	60 hours
GSM Frequencies	850/900/1800/1900 MHz
GPRS	Class 12, TCP/IP
GPS Channel	32
GPS Sensitivity	-162dBm
Acquisition Sensitivity	-148dBm
Position Accuracy	<10m
TTFF (Open Sky)	Cold Start: <35s
	Hot Start: <1s
GSM/GPS Antenna	Built-in design
LED Indicator	GSM-green, GPS-blue, Power-rec
Data Transmit	TCP, SMS
Geo-fence Alarm	Alarm when get in or get out a specified area
Speeding Alarm	Report when speeds higher than the pre-set value.
Low Power Alarm	Alarm when backup battery is running out
Non-movement Detection	Movement alarm based on built-in 3D motion sensor
Mileage Report	Track by time/distance interval
Remote Control	Cut off petrol/electricity

4. Getting Started 4.1 Switch on

its first use

Get started by assembling and setting up your device for

1.Open the SIM card cove



2.Insert the SIM card.



NOTE SIM card should be equipped with GPRS and SMS functions

3.Tum the battery switch to ON.



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: DNS · SERV 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 number.

The command for setting center number is: **CENTER A mobile**

E.g. CENTER,A,18165542976#

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

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

5.5 Locator Data Upload Interval

Users can modify GPRS uploading time interval by SMS TIMER, T1, T2

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: ISE TIME

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

NOTE:

- 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: The replied information contains IMEI number, GPS data uploading Interval, GPS working time, SOS number,

center number, sensor time interval, defense time and time zone info.

5.8 Check GPRS parameters 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 seconds

NOTE:

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

6.2 Check location

1. Via SMS

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

6.8 Over Speed Alarm 6.4 Low battery alarm can get the coordinates. If the device does not search any when GPS is in valid position status, and the speed is less Real-time Tracking When the device is only working with battery, once the When the car is moving over a limited speed in average in information of location, it will send "No data" to the cell than 20KM/H or in static. Platform account password is Report and Statistics internal voltage of battery is less than 3.7V. device will needed when sending oil cut off command. a limited time period, then the device will send over Online Configuration phone. speed alarm SMS to user. Example send low battery alarm SMS to SOS number and alarm on Current position! 2. Via SMS To turn on the over speed function, please send below platform. Lat:N22.577156,Lon:E113.916748,Course:131.99,Speed:0. Low battery alarm SMS content Firstly, you should set a center number. Please refer to 5.4. SMS command: 8. Troubleshooting example:"Attention!!!Battery is too low, please charge." Only center number can send the command to the device need way of alarm# 00Km/h.Date Time range (Second) : 5-600s (default as 20s). If you are having trouble with your device, try these Time:2013-10-08 17:35:32 Which means the battery is too low, inform user charging to cut off and restore oil. troubleshooting procedures before contacting a service 1.2 SMS "URL#" to the SIM number of device. The device The format is: RELAY,1# it in time Limited speed range (km/h): 1-255, default: 50. professional. will send a location Google Map link. If the device does After the command is carried out, it will reply "Cut off the Way of alarm: 0, GPRS only; 1, SMS+GPRS; default : 1. fuel supply: Success! Speed:0 Km/h". If the command not search any information of location, it will send "No Example: SPEED.ON.10.120.1 Problems Causes Solutions The SOS numbers should be preset, please refer to **5.1**. data" to the cell phone. didn't carry out, it will reply the reason about fail to carry Means when the car is moving over 50km/h in average in Red LED does 10 seconds, the device will send over speed alarm to user. Example: out not work The fuse blows Replace the fuse <10-08 when power 17:36>http://maps.google.com/maps?q=N22.577156,E1 6.5 Vibration alarm 6.9 Restore to factory setting NOTE: connected The vibration alarm function is off by default. To activate 13,916748 To ensure the safety of the driver and the car, this SMS command format: "FACTORY#" to set all parameter Check SIM card this function, please send the following command: command is valid only under two conditions: the GPS is to default factory value. Once received "OK! The terminal Wrong installation of installation (> 4.1 2. Via platform SENALM. ON# SIM card located; the speed is less than 20km/h. will restart after 60s!", it succeeds. Install SIM card) Go to the platform website offered by dealers to check ACC OFF & in arming state Fith on the SIM card your vehicle location. Clean it 6.10 Reboot device 6.7 Restoring Oil ron surface. When there is something wrong with the link of GPRS, Contact internet service If 5 times (times can be set) of vibration detected in 10 1. Via platform 6.3 Wire cut-off alarm Iseless SIM Fail to e.g., the parameter setting of the device is correct, but you When the alarm is off, sending recover oil commands seconds, 1) ACC OFF in the following 30 seconds, the When the electricity supply of device is cut off, it will connect can't track the car on the platform. At this moment you Check installation of device will send vibration alarm, 2) ACC ON in within 30 manually. Device will restore oil supplying, and vehicle will activate cut-off alarm. In this case, the device will send network can send a command to the device to reboot the device. Improper installation device(> 4.4 Install the seconds, no vibration alarm will be triggered. work normally again. related SMS to the SOS numbers and dial the numbers in The format is: **RESET#** Platform account password is needed when sending oil circles. If nobody answers, the call just keeps 3 loops at After receiving this command, the device will reboot after cut off command. Use it in effective GSM Bevond GSM service most. At the meantime, the device will upload power cut 20 seconds 1. The SOS numbers should be preset. service offer area off alarm data to the server. And it will send: 2. Via SMS Try again in a better 2. Send "SENALM, OFF#" to tum off the vibration alarm Cut Power ! < Date Time: 13-06-17 14 ; 53 ; 06>, Bad signa Only center number can send the command to the device signal area if don't need. http://maps.google.com/maps?q=N22576713,E113.9165 to restore oil. Connect with power 7. Platform The voltage is 85 The format is: RELAY,0# with suitable voltage unsuitable 6.6 Oil cut-off

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





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

NOTE

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;
- 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 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.

4.6 Power/ACC/Tele-cutoff(petrol/electricity) control line (4 pin)

- the positive side in parallel. connected to pin 86 of the Tele-cutoff (petrol/ socket).

5. Quick Operation Instructions

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 and after the comma)

5.1 Add SOS number

SOS A No.1 No.2 No.3 "A" means to add new numbers, for example: SOS A 1816554 It will reply "OK! SOS1: 18165542975 SOS2: 18165542976 SOS3:

after set successfully.

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

After the command is carried out, it will receive "Restore fuel supply: Success!"

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

Check connection with

charger





Fail to charge

Improper connection

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 vehicle. Please be sure to connect the ACC line; otherwise the device won't enter ignition detection status when disconnect the ACC line. If you don't need to anti-theft temporarily, just connect the ACC line to

3. Tele-cutoff (petrol/ electricity) control line (yellow) is electricity) relay (equal to the yellow line of the relay

SMS command to the device to add the SOS number.

