

SECURESHOP



SS-LK209B/C

**GPS Tracker Manual
Version 1.0**

Preface

Thank you for purchasing this GPS tracker at Securitashop. We have decided to make our own manual as the one we have received from the manufacturer is hard to read. Despite our best efforts to change this it remains below our standards which is why you receive our own manual – with additional information on setup on platform too.

This manual shows how to operate the device smoothly and correctly. Make sure to read this manual carefully before using this product. Please note that specification and information are subject to changes without prior notice in this manual. Any change will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

Summary

Working Based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS or internet. The most advanced technology of GPS and AGPS dual positioning.

HARDWARE DESCRIPTION



Content Specifications

Content	Specifications
Dim.	120 x 64 x 35 mm
Weight	305 / 465 gram
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS chip	UBLOX
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Cold status 35-80s Warm status 35s Hot status 1s
Car charger	12—24V inp 5V output
Wall charger	110—220V input 5V output
Battery	Chargeable changeable 3.7V 10000mAh (SS-LK209B) or 20000mAh Li-ion battery (SS-LK209C)
Standby	90/150 days
Storage temperature	-40°C to +85°C
Operation temperature	-20°C to +55°C
Humidity	5% - 95% non-condensing

SIM card installation

- Open the rubber plug – Fig. 1
- Insert the GSM SIM card as shown below fig. 2.
- Close the rubber slip



Fig. 1



Fig. 2

Battery and Charger

Charge the battery to maximum capacity for 8-12 hours the first time. Please use the battery and charger provided by the manufacturer. This unit adopts built-in Li-ion battery and full battery can standby 90 to 150 days. After first use, the battery usually should be charged fully in 5-8 hours.

Cautions

- Li-ion batteries contain harmful chemicals and may burst, please do not bump, puncture it violently and expose it to fire.
- Please charge the battery in time to keep it working normally.

Startup

- Put the SIM card and battery in place.
- Turn on the unit outdoors by pushing the button to "On".
- For first use, please initialize the unit and restore it to default setting
- In 10 or 40 seconds, the unit will begin to work and acquire the GSM signals as well as the GPS signals. The indicator will keep flashing every 3 seconds when the unit has received the signals.
- When the unit receives GPS and GSM signals normally, you can use it and do any setting as the instructions of this manual.

Green LED for GPRS working status

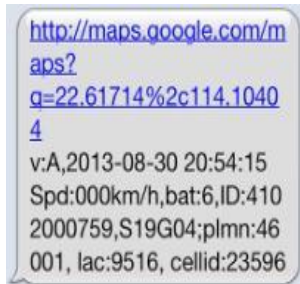
Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	GSM/GPRS conversation start
Continuously in bright status	No GPRS signal
Green led off	Device fault or inactive

Blue LED for GPS working status

Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	GPS location successful
Continuously in bright status	Searching GPS signal
Blue led off	Device fault or inactive

Red LED for power charging status

Status of indicator	Meaning
red led on all the time	Charging
red led flash	Low battery
red led off	Full battery or charged full



<http://maps.google.com/maps?aps?q=22.61714%2c114.10404>
v:A,2013-08-30 20:54:15
Spd:000km/h,bat:6,ID:4102000759,S19G04;plmn:46001,lac:9516,cellid:23596

Google link: click link, there is map when positioning ok, no map means no positioning.
V:A GPS signal ok.**V:V** no GPS signal
2013-08-30 20:54:15: the last time receive GPS signal.
Spd:000km/h: the speed of the tracker.
Bat:6 battery balance. Range is from 1 to 9

ID: 4102000759: ID code of device (used for connect tracking website or APP)

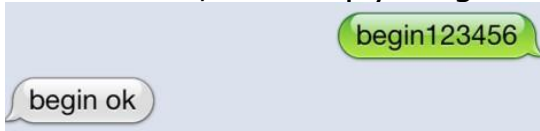
S19G04; plmn: 46001 GSM operator data

Lac: 9516, cellid:23596 LBS data

Initialization

Send; *begin+password* in SMS to the unit, it will reply *begin ok* and initialize all the settings. (default password:123456)

For example, send SMS: begin123456 to the tracker via a cell phone, if succeeded, it will reply "begin ok".



begin123456
begin ok

Change the password

Set Password: send sms: password+old password+space+new password" to the unit to change the password.

For example, send sms: password123456 000000 to terminal device, it will reply sms: password OK. New password 000000 changed in success.



password123456 000000
password ok

Make sure the new password is in 6 digits Arabic numbers or the tracker cannot recognize the password.

Authorization

Send SMS: admin+password+space+cell phone number" to set up an authorized number. The first authorized number should set the other authorized numbers. If the number is successfully authorized, the unit will reply "admin ok!" in SMS.

Send SMS: noadmin+password+space+authorized number" to delete the authorized number.

for example, send: admin123456 13265790180 to tracker to set 13265790180 as an authorized number.



When the authorized number call the device, it will hang up your phone and reply a real-time latitude and longitude information as below:



Single Locating

If there is no authorized number when any number dials up the unit, it will report a geo-info. If there is already an authorized number, it will not respond when an *unauthorized* number calls it up.

Single message inquires the latitude and longitude information, any telephone number can send instruction "where" to the equipment, then the equipment will reply the latitude and longitude information to this telephone.

When an authorized number dials up the unit, it will hang up and report a real-time Geo-info as below:

*Tracking location, When GPS signals is weak, the position of latitude and longitude included in the SMS is the position that the tracker received GPS signals at last. If it is different with its exact current location, pay attention to check the time included in the SMS you got.

Auto Track

Send SMS command "t030s005n+password" to the tracker device, it will report the "no reply" at 30s intervals for 5 times. (s:second, m:minute, h:hour). This command setting must be in 3 digits and the maximum value is 255.

Unlimited times auto track: Send SMS "t030s***n+password" to the tracker device, it will reply the "no reply" continuously at 30 seconds intervals.

Cancellation: Send SMS "notn+password" to the tracker device, it will report the "notn ok".

Note: the interval must not less than 20s.

Monitor (voice surveillance)

The command to switch between track and monitor are "tracker" and "monitor".

The default mode is "track" (track mode).

- Send SMS "monitor+password" to the unit and it will reply "monitor ok!" and switch to "monitor" mode.
- Send SMS "tracker+password" to the unit, it will reply "tracker ok!" and restore to "track" mode.



Geo-fence

Set up a geo-fence for the unit to restrict its movements within an area. The unit will send the message to the authorized numbers when it breaches that area.

Geo-fence setup

When the unit stays immobile in a place for 3-10 minutes, the user can send SMS:

"stockade+password+space+latitude,longitude; latitude,longitude" to unit to set the restricted area.

Remark: The first latitude & longitude is coordinate of the top left corner of the Geo-fence while the second latitude & longitude is the coordinate of the bottom right corner.

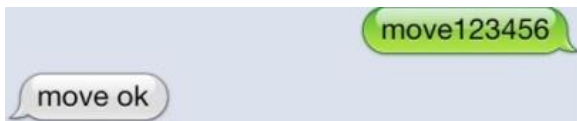
Cancel geo-fence: send SMS: nostockade+password to deactivate this function, tracker will reply nostockade ok.



Movement alert setup

When the unit stays immobile in a place for 3-10 minutes the user can send SMS: "move+password" to the unit, then the unit will reply "move ok!". In case of such a movement (the unit default distance is 500M), it will send SMS "move ALARM+latitude and longitude" to the authorized number

Cancel: Send SMS:" nomove+password" to deactivate the movement alert, tracker will reply "nomove ok".



Overspeed alert setup

Send SMS: speed+password+space+080 to the unit (suppose the speed is 80km/h) and it will reply speed ok!. When the target moves exceeding 80 km/h the unit will send SMS: speed ALARM!+ latitude and longitude" to the authorized numbers every 5 minutes.

To cancel: Send SMS "nospeed+password" to deactivate the overspeed alarm, tracker will reply "nospeed ok".

Remark: The recommended speed should be not less than 50km/h. For below that rate, it will be effected the accuracy by gps signals drift etc.



Low battery alert

When GPS device battery is going to be about 3.7V, it will send SMS: "bat:l" at 30 minutes interval.



Terminal (local) Time Setting

Send SMS "time+space+zone+password+space+local time".
 For example, send SMS: time zone123456 1 (time zone of Denmark).
 If the local time zone is negative as "-3", then it should set as SMS:
 time zone123456 -3

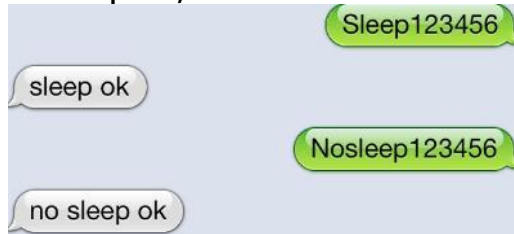


Sleeping power-save mode

On normal status when the unit stops over 10minutes it will change to sleeping mode- In this mode the power consumption is 4mah/h only. When it get any command or been moved it will start GPS locating automatically.

Forced sleeping mode setting: Send SMS sleep+password, the unit will reply "sleep ok", it enter to forced sleeping power-save mode.

Start device, send SMS: nosleep+password, the unit will reply nosleep ok, it start GPRS and GPS locating.



Shock alert

Note: It is effective sending by authorized number

Send SMS command"shock+password", the unit will reply "shock ok."

Cancel: Send SMS command "noshock+password", the unit will reply "noshock ok."

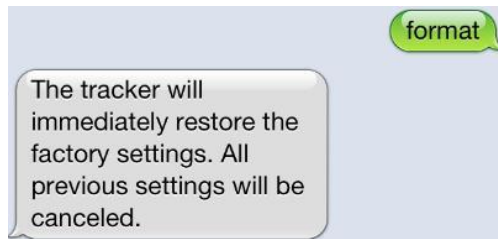


Dropped Alarm.

When device have been attracted on metal 15 seconds after (the dropped button have been pressed 15 seconds), if it device was dropped, it would alarm to the admin number by SMS or calling.

Restore factory settings

Can only be done by authorized number(s). Send SMS command *format*, the unit will reply "The tracker will immediately restore the factory settings. All previous settings will be cancelled."



GPRS setting

User must send SMS via cell phone to set up IP, port and APN before starting GPRS.

Setting up APN

APN standards for Access Point Name and differs from country to country. For more information about the local APN, inquire with your local GPRS network operator. In Denmark many GSM providers use the APN; internet

Send a SMS: apn+password+space+your local APN via a cell phone and if succeeded the tracker will return the message apn ok
E.g. send SMS command: apn123456 internet

Set IP Send SMS command: adminip123456 60.191.150.102 7700.
If succeeded, "adminip ok"

Cautions

- Keep the unit dry.
- Do not use and store the unit in dusty places
- Handle carefully

- Do not vibrate or shake it violently.
- Clear the unit with a piece of dry cloth.
- Do not clean in chemicals, detergent.
- Do not paint the unit as it may cause loss of GSP signal

Function	SMS command	SMS reply
Initialize	begin123456	begin ok
Change password	password123456 new password	password ok
Authorization number	admin123456 phone number	admin ok
Autotrack SMS	t030s005n123456	no reply (every 30 seconds for 5 times)
Monitor mode	monitor123456	monitor ok!
Track mode	tracker123456	tracker ok!
Geo-fence	stockade123456 114.104150E,22,614140N;1 14.103740E,22,614130N	stockade ok!
Movement alert	move123456	move ok
Cancel movement alert	nomove123456	nomove ok
Speed alert	speed123456 080 (if speed is set to 80 km/hour)	speed ok!
Cancel speed alert	nospeed123456	nospeed ok
Time setting	time zone123456 1	time ok
Sleep mode	sleep123456	sleep ok
Cancel sleep mode	nosleep123456	no sleep ok
Shock alert	shock123456	shock ok
Restore	format	The tracker will
APN setting	apn123456 apnname	apn ok
IP setting	adminip123456 ipaddress space port number	adminip ok
No sleep mode	sleep123456 off	Always on
Time sleep mode	Sleep123456time5 (5 can be 1-60)	Working 5 min then sleep

Securitashop Internet platform setup and APP's

Securitashop offers in cooperation with Wialon access to paid internet tracking platform where you can track, set geo-fence, control fuel, set drivers, monitor tracks over a period and many other things. We have chosen Wialon as our partner as they are #1 in GPS software platform, is reliable and have support and backup services.

Setup:

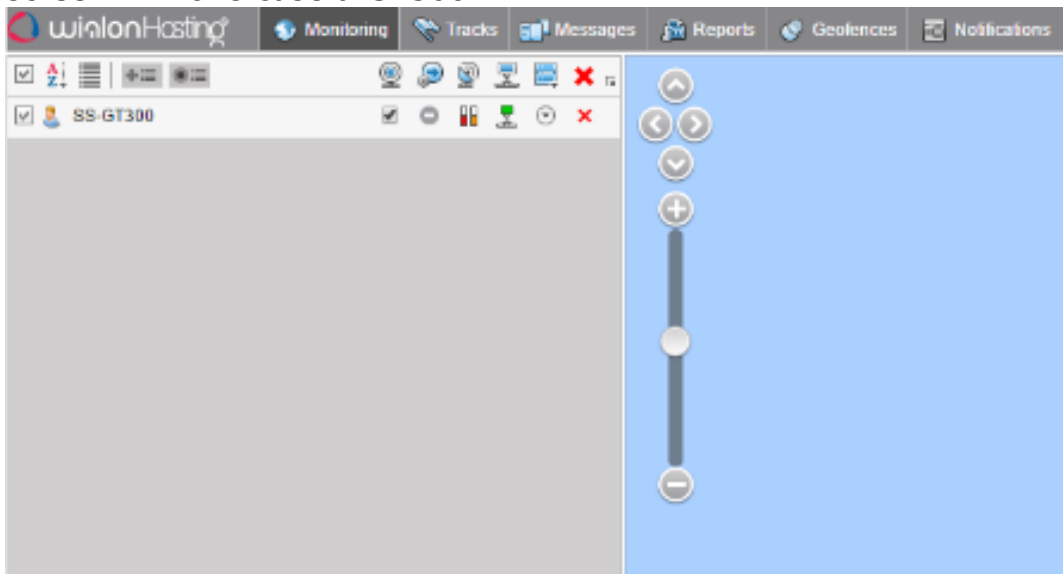
To setup your GPS tracker you need 2 things:

1. A standard SIM card from a mobile phone provider – not a 3G or 4G card only.
2. Your IMEI number mentioned on either the box or the GPS tracker itself. On the PET100 it is mentioned on the back of the unit.

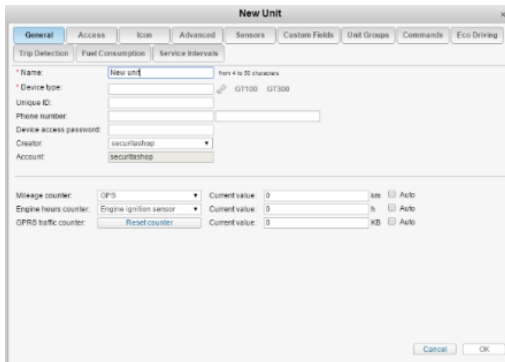
Once you have noted these numbers you have to login to the platform at <http://gps.securitashop.com>

Username and password will be provided by Securitashop if you have signed up for this option.

When logged in you will see like this in your top left corner of your screen – in this case a GT300



You should click on the  and chose  and you will see this screen



- I. Give the unit a name of your choice
- II. Device type is the name of the unit without the SS. For the SS-LK209 it is LK206
- III. Unique ID is the IMEI number of the unit (written on the box or on the unit itself)
- IV. Phone number is the number of the SIM card that you have inserted into the unit – remember to put your country code in front of the number – for Denmark it is +45
- V. Click OK and go back to “Monitoring”

Next step is to send commands into your unit so it can communicate with the platform:

- I. Make sure you have set your APN as written in 4.1 – otherwise you cannot send/receive data
- II. Send following SMS to the GPS tracker adminip123456
193.193.165.165 20912
- III. You will receive an “OK”
- IV. Wait some minutes for the GPS tracker to go online.

You are all setup and ready to see your unit go online in a matter of minutes. Full setup can be seen at:

<http://docs.wialon.com/en/hosting/user/quick/quick> or if you are in doubt call our support at +45 6053 4077 or e-mail support@securitashop.com

APP for Ipad, Iphone and Android

- I. Find the APP by searching for Wialon and chose the APP called Wialon. For Apple it looks like this:



- II. Once downloaded enter the connectivity settings as below (below is a SS-GT100). Unique ID is the IMEI number of the unit.



- III. You are all set – go back and click MAP. You should see your GPS tracker on the map.