

LKGPS LK209 GPS Tracker User Manual

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Power magnetic GPS Tracker Manual



Preface LK209

Thank you for purchasing the tracker. 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.

FCC RF Exposure Information and Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1. 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.

2. Applications

- 1. Vehicle rental / Fleet management etc
- 2.Container/cargo/asset tracking

3. Hardware Description



4. Content Specs.

Content	Specs.		
Dim.	120mm x 65mm x 35mm		
Weight	250g		
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		
Wall charger	110-220V input		
	5V output		
Battery	Battery Chargeable changeable 3.7V 10000mAh Li-ion battery		
Standby	120 days		
Storage Temp.	-40°C to +85°C		
Operation Temp.	-20°C to +55°C		
Humidity	5%95% non-condensing		

5.Userage:

5.1 SIM card installation

- 1. Open the rubber plug
- 2.Insert the GSM SIM card.
- 3.close the rubber plug.

5.2 Battery and Charger

Do charge the battery to capacity in 8 -12 hours for first time. Please use the battery and charger provided bythe manufacturer. This unit adopts built-in Li-ion battery, and full battery can standby 120days. After first use, the battery usually should be charged fully in 5–8 hours.

Cautions:

a: For it's Li-ion battery, which contains harmful chemicals and may burst, please don't bump, puncture it violently and keep it off fire.

b: Please charge the battery in time to keep it working normally.

5.3 Startup

- Put the SIM card and battery in place.
- Turn on the unit outdoors by Pushing the button to "On" the indicator is on.
- Set admin number, APN, IP and open GPRS

Eg: Step1.admin123456+space+your phone number

Step2.apn123456+ space+local apn content

Step3.adminip123456+space+101.1.16.228+space+7700

Step4. gprs123456

- 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 this unit receives GPS signals normally, you can use it and do any setting as the instructions of this manual.

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 dormant		
.ED 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 dormant		
Red LED for power charging status			
Status of indicator	Meaning		
Red led on all the time	Charging		

http://maps.google.com/m
aps?
q=22.61714%2c114.1040
4
v:A,2013-08-30 20:54:15
Spd:000km/h,bat:6,ID:410
2000759,S19G04;plmn:46
001, lac:9516, cellid:23596

1.Google link: click link, there is map when positioning ok, no map means no positioning.

2.V:A GPS signal ok.V:V no GPS signal

3.2013-08-30 20:54:15: the last time receive GPS signal.

4.Spd:000km/h: the speed of tracker ran.

5.Bat:6 battery balance the range is from 1 to 9

6.ID:4102000759: ID code of device(used for connect

tracking website or APP)

7.S19G04 plmn 46001 GSM operator data

8.Lac 9516 cellid:23596 LBS data

5.4Change the password

5.4.1 Set Password: Send sms: "password+old password+space+new password" to the unit to change the password. Status of indicator Meaning Red led on all the time Charging red led off Full battery or charged full For Example, pls send sms: "password123456 000000" to terminal device, it will reply sms: "password OK". New password 000000 changed in success.



- **5.4.2** Be sure keep the new password in mind, you have to upload the software to restore the original setting in case of losing the new password.
- **5.4.3** Make sure the new password is in 6 digits Arabic numbers, or the tracker can not recognize the password.
- **5.4.4** Make sure that all the symbol"+"in sms commends is just for quick understanding, which don't need to enter "+" in sms, and "space" means press the spacebar button of the cell phone.



5.5Authorization

- **5.5.1** Send SMS "admin+password+space+cell phone number" to set up a authorized number. The other authorized numbers should be set by the first authorized number. If the number is successfully authorized, the unit will reply "admin ok!" in SMS.
- 5.5.2 Send SMS "noadmin+password+space+authorized number" to delete the authorized number.
- **5.5.5** When the authorized number call the device, it will hang up your phone and reply a realtime latitude and longitude information, as below:

```
http://maps.google.com/m
aps?
q=22.61714%2c114.1040
4
v:A,2013-08-30 20:54:15
Spd:000km/h,bat:6,ID:410
2000759,S19G04;plmn:46
001, lac:9516, cellid:23596
```

5.6Single Locating

- **5.6.1** If there is no authorized number, when any number dials up the unit, it will report a Geoinfo; If there is already an authorized number, then it will not respond when an unauthorized number calls it up.
- **5.6.2** 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.
- **5.6.3** When an authorized number dials up the unit, it will hang up and report a real-time Geoinfo 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.

5.7Auto Track

5.7.1 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.

- **5.7.2** Unlimited times auto track: Send SMS "t030s***n+password" to the tracker device, it will reply the "no reply" continuously at 30 seconds intervals.
- **5.7.3** Cancellation: Send SMS "notn+password" to the tracker device, it will report the "notn ok". Note: the interval must not less than 20s.

5.8 Monitor (Voice Surveillance)

- 5.8.1 The command to switch between Track and Monitor are "tracker" and "monitor".
- 5.8.2 The default mode is "track" (Track mode).
- **5.8.3** Send SMS "monitor+password" to the unit, and it will reply "monitor ok!" and switch to "monitor" mode.
- **5.8.4** Send SMS "tracker+password" to the unit, it will reply "tracker ok!" and restore to "track" mode.



5.9Geo-fence

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

5.9.1 Set up: 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 district. 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.

5.9.2 Cancel: Send SMS:" nostockade+password" to deactivate this function,tracker will reply "nostockade ok"



5.10Movement alert

5.10.1 Set up: 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

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



5.11 Overspeed alert:

5.11.1 Set up: 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.

5.11.2 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.



5.12Low battery alert

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



5.13Terminal (local) Time Setting

Send SMS "time+space+zone+password+space+local time".

For example, Send SMS "time zone123456 8" (time zone of China).

If the local time zone is negative as "-3", then it should set as SMS: "time zone123456 -3".



5.14Sleeping power-save mode

On normal status, when the unit stoped over 10minutes, it will change to sleeping mode, on 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

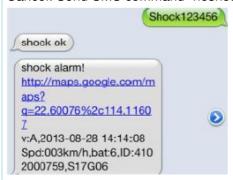


5.17 Shock alert

Note: It is effective sending by authorized number

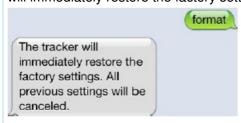
Send SMS command "shock+password", the unit will reply "shock ok."

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



5.15Restore factory settings

Note: It is effective sending by authorized number Send SMS command "format", the unit will reply "The tracher will immediately restore the factory settings. All previous settings will be canceled."



or

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".



5.16 GPRS setting

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

5.16.1 Setting up APN

- **5.16.1.1** 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.
- **5.16.1.2** Text the tracker a SMS "apn+password + Space + your local APN" via a cell phone and if succeeded in setup, the tracker will return the message "apn ok".
- **5.16.1.3** e.g. send SMS command "apn123456 cmnet". If succeeded, "apn ok" is returned by the tracker in SMS.

Notes: 123456 refer to password of tracker and CMNET is the APN of China Mobile (One of GSM Operator in china).

5.16.1.4 Set IP Send SMS command adminip123456 101.1.16.228 7700 If succeeded, "adminip ok"

5.16.1.5 Dropped Alarm

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

6.command list(pls note 123456 is the default password) .

Feature name	Active command	Reply	Cancel command	reply
Begin(blank before set)	Begin123456	Begin ok	Commissio	
Admin number	Admin123456+s pace+number	Admin ok	Noadmin123456 +space+number	Noadmin ok
Sos number	Sos123456+spa ce+number	Sos number ok	Nosos123456+s pace+mmber	Nosos number ok
Sossms	Sossms123456	Sossms ok	Nosossms12345 6	Nosossms ok
Soscall	Soscall123456	Soscall123456 ok	Nososcall12345 6	Nososcall ok
Password	Password12345 6+space+new	Password ok		
Sever ip&port	Adminip123456 +space+ip+spac e+port	Adminip ok		
APN	Apn123456+spa ce+local apn content	Apn ok		
LBS	Addjz=1	Open LBS	Addjz=0	Close LBS
GPRS	Gprs123456	Gprs ok	Nogprs123456	Nogprs ok
Time Zone	Timezone12345 6+space+8	Timezone ok	Timezone12345 6+space+-8	Timezone ok
Language	Lagl	Switched to english	•	
Restore factory setting	format	No reply	8	
Upload frequency(10- 180s)	Upload123456+ time	Upload ok		
Sleep working mode	Sleep123456+sp ace+time	Sleep time ok	Wake up by sms,call,press button	
Shock working mode	Sleep123456+sp ace+shock	Sleep shock ok	Wake up by shock,sms,call,p ress button	
No sleep working mode	Nosleep123456	Nosleep ok		
Get location	Where or G123456#	Google map link	N 17 11 11 11 11 11 11 11 11 11 11 11 11	
One way communication	monitor	Monitor123456	In this mode, you could hear the voice around units after call it	
Shock alarm	Shock123456	Shock ok	Noshock123456	Noshock ok
Shock call alarm	vibcall123456	Shock call alarm ok		
Shock sms alarm	vibsms123456	Shock sms alarm ok		
Move alarm(distance:1 00-5000m)	Move123456+s pace+distance	Move ok	Nomove123456	Nomove ok
Overspeed alarm(50- 120km/h)	Speed123456+s pace+max speed	Speed ok	Nospeed123456	Nospeed ok
Set a geo-fence (stockade)	stockade+12345 6+space+long,la t;long,lat	stockade ok	nostockade1234 56	Nostockade ok
Check setting of device	Paraml	Software version,date,ime i,ip&port,apn,w eb platform	Param2	Admin number,sos number,move distance,speed,e tc
Status of device	status	Bat:4,gprs:1.gs m:3,gsm:1,acc:0 ,oil:0,power:1,s: 0		

7. Web platform and sever ip&port

Website Sever IP Port www.lkgps.net 101.1.16.228 7700

8.App download

8.1 android version: scan below QR code

APP



8.2 ios version: search "LKGPS" in app store



9. Faults & The solutions

Faults	Solution		
Startup Fail	Check the battery and see if it is fully charged or correctly installed.		
Hang up Fail	In existence of an authorized number, an unauthorized number dials up the unit. Please initialize the unit and re-set up the authorized numbers.		
Monitoring failure	Please check the authorization number is set to the correct time		
No GSM Signal	Please make sure SIM Card is GSM Net and installed correctly; also call dis should be on; but no call transfer and PIN code off.		

https://fccid.io/2AI9PLK209/User-Manual/Users-Manual-3082858.pdf

Manuals+, home privacy