

GPS Tracker

车载定位器

Operation Commands

操作指令

VERSION / 版本: V1.7

BASED ON EELINK PROTOCOL

2018.4.24

©



1. APN Setting.....	5
2. Server Setting.....	5
3. GPRS Upload Time Interval.....	6
4. Time Zone Setting.....	6
5. Language Setting.....	7
6. Add SOS Administrator Number.....	8
7. Delete SOS Administrator Number.....	9
8. Add Center Number.....	9
9. Delete Center Number.....	10
10. Working Mode Setting.....	10
11. Administrator's Call Delay.....	11
12. Heartbeat Packet Upload.....	12
13. Add Geo-fence.....	12
14. Delete Geo-fence.....	14
15. Vibration Alarm Setting.....	14
16. Open Shift Alarm.....	15
17. Close Shift Alarm.....	15
18. Remote Upgrade.....	15
19. Cut off Oil / Power.....	16
20. Restore Oil / Power.....	16

21. Restart.....	17
22. Restore factory settings.....	17
23. Version Inquiry.....	17
24. Parameter Inquiry.....	18
25. Status Inquiry.....	18
26. Latitude&Longitude Inquiry.....	19
27. Edit Map URL.....	20
28. Map URL Inquiry.....	20
29. Address Inquiry.....	20
30. SMS Forwarding.....	21
1、APN 设置.....	23
2、服务器设置.....	23
3、GPRS 上传时间间隔.....	24
4、时区设置.....	24
5、语言设置.....	25
6、设置 SOS 管理员.....	25
7、删除 SOS 管理员.....	26
8、设置中心号码.....	27
9、删除中心号码.....	28
10、工作模式设置.....	28

11、管理员来电接通延时.....	29
12、心跳包上传时间设置.....	29
13、添加电子围栏.....	30
14、删除电子围栏.....	32
15、振动报警设置.....	32
16、位移报警设置.....	33
17、关闭位移报警.....	33
18、固件升级.....	33
19、断油/电.....	34
20、恢复油/电.....	34
21、重启设备.....	34
22、恢复出厂设置.....	35
23、查询软件版本.....	35
24、查询参数.....	35
25、查询状态.....	36
26、查询经纬度.....	37
27、编辑查询地图链接.....	37
28、查询地图链接.....	38
29、查询位置地址.....	38
30、短信转发.....	39

Explanation about the commands

1. All commands are case-insensitive.
2. All commands can be edited and sent by Cell phone(SMS) or Platform(GPRS). The symbols of the commands are English symbols (One symbol length accounted for a byte).
3. Parameters of the commands separated by Comma, the parameters with italic. and Consolas font type need be altered by users or are altered by terminals automatically.

For example, Upgrade the newest firmware, Use the following command:

UPGRADE, *C4_2_0_2.EXF, Update.SKY*
200.COM, 69#

1. APN Setting

APN,Network name[,name,password]#

Examples :

APN,CMNET#(if no name & Password)

APN,internet,internet,internet#

If the setup is successful, device will reply:
SET APN OK

2. Server Setting

SERVER,1,Domain,Port#

SERVER,0,IP,Port#

Examples :

SERVER,1,hkgps.sky200.com,32001#

SERVER,0,42.120.22.24,32001#

If the setup is successful, device will reply:
SET SERVER OK

3. Data Upload Time Interval

`TIMER, Gathering interval[, Packet number]#`

Examples:

TIMER, 30#

Means uploading data per 30s

TIMER, 15, 8#

Means gathering one packet per 15s, upload data every $15 \times 8 = 120$ s (after gathering 8 packets)

Note:

Gathering time interval: 0 or 10 ~ 18000s, 0 means forbid uploading, default is 30s .

Package number : 1-20, default is 1

If the setup is successful, device will reply:

SET TIMER OK

4. Time Zone Setting

`GMT, Time zone orientation, Whole Time Zone[, Half Time Zone] #`

Examples :

GMT,E,8# *(if no half time zone)*

GMT,W,9,30#

Note:

Parameter : E / W ; 0 ~ 12 ; 0/15/30/45

If the setup is successful, device will reply:

SET GMT OK

5. Language Setting

LANG,1/0#

Examples :

LANG,1#

LANG,0#

Note:

1 represents Chinese

0 represents English

If the setup is successful, device will reply:

SET LANG OK

6. Add SOS Administrator Number

SOS,A,1st number,2nd number,3rd number#

Examples :

SOS,A,13800138000,13800138001,13800138002#

Means to set 3 numbers at a time .

SOS,A,13800138000#

Means to set 1st number.

SOS,A,,13800138001#

Means to set 2nd number.

SOS,A,,,13800138002#

Means to set 3rd number.

Note : SOS Administrator will get SOS call and receive alarm SMS messages from devices.

If the setup is successful, device will reply:
SET SOS OK

7. Delete SOS Administrator Number

SOS,D,1st number,2nd number,3rd number# or *SOS,D,1,2,3#*

Examples :

SOS,D,13800138000#

Means to directly delete the number.

SOS,D,1#

Means to delete 1st number.

SOS,D,3#

Means to delete 2nd number.

SOS,D,2,3#

Means to delete 2nd and 3rd number.

If the setup is successful, device will reply:

DEL SOS OK

8. Add Center Number

CENTER,A,center number#

Example :

CENTER,A,13800138000#

Note: Center number is only used for cutting off power & oil, it can **only be set by SOS Administrator** when using this command by SMS.

If the setup is successful, device will reply:
SET CENTER OK

If the setup failed, device will reply error and reason.

9. Delete Center Number

CENTER, D#

If the setup is successful, device will reply:
DEL CENTER OK

10. Working Mode Setting

SAVING, 0/1/2/3#

Example:

SAVING, 1#

Note: There are 4 kinds of working mode, if the device type is built-in battery and need long standby(like GPT06/K9/K20), choose different working mode to save power.

0# Tracking Mode : GPS always on ;

1# Saving Mode : GPS off when device is static, GPS on when device is moving or being inquired (Devices' movement detected by Motion Sensor)

2# Sleeping Mode : GPS on when device was being inquired;

3# Hibernation Mode : GPS always off;

If the setup is successful, device will reply:

SET SAVING OK

11. Administrator's Call Delay

`DELAY, time#`

Example :

DELAY, 30#

Means get through after 30s administrator's ringing

Note: The Call from Administrator will automatically get through after a delay time . It can be used for listen. (Need Call ID display service)

Range :5-60s, default is 10s.

If the setup is successful, device will reply:

SET DELAY OK

12. Heartbeat Packet Upload

HBT, *time*#

Example:

HBT, 3#

Note: Function see EELINK Protocol

Range :1-60min, default 3min.

If the setup is successful, device will reply:

SET HBT OK

13. Add Geo-fence

FENCE, *fence ID, fence*

tag, parameter1, parameter2, parameter3, parameter4#

Example:

FENCE, 1, OR, , , 500#

Set No.1 round fence, OR alarm type: out-fence alarm; current point as the center, radius 500 m.

FENCE, 2, IR, , , 500#

Set No.2 round fence, IR alarm type: in-fence alarm; current point as the center, radius 500 m.

FENCE, 3, CR, , , 500#

Set No.3 round fence, CR alarm type: across-fence alarm; current point as the center, radius 500 m.

FENCE, 4, OR, 113.5, 22.5, 500#

Set No.4 round fence, OR alarm type: out-fence alarm; Latitude and longitude (113.5,22.5) as the center, radius 500 m.

FENCE, 5, IR, 113.5, 22.5, 500#

Set No.5 round fence, IR alarm type: in-fence alarm; Latitude and longitude (113.5,22.5) as the center, radius 500 m.

FENCE, 6, CR, 113.5, 22.5, 500#

Set No.6 round fence, CR alarm type: across-fence alarm; Latitude and longitude (113.5,22.5) as the center, radius 500 m.

FENCE, 1, OS, 113.2, 22.2, 113.8, 22.8#

Set No.1 rectangular fence, OS alarm type: out-fence alarm; In longitude and latitude (113.5, 22.5), (113.8, 22.8) forming a rectangle.

FENCE, 2, IS, 113.2, 22.2, 113.8, 22.8#

Set No.2 rectangular fence, IS alarm type:
in-fence alarm; In longitude and latitude (113.5, 22.5), (113.8, 22.8) forming a rectangle.

FENCE, 3, CS, 113.2, 22.2, 113.8, 22.8#

Set No.3 rectangular fence, CS alarm type:
across-fence alarm; In longitude and latitude (113.5, 22.5), (113.8, 22.8) forming a rectangle.

14. Delete Geo-fence

FENCE, 0# or FENCE, N#

Examples:

FENCE, 0#

Delete all fences

FENCE, 5#

Delete 5th fence

15. Vibration Alarm Setting

MOTION, sensitivity, duration#

Example:

MOTION, 2, 5#

Note:

Sensitivity Level : **0-9** ; **1-9** is the sensitivity level of vibration, this value the smaller, device will more sensitive for vibration ; **0** means close Vibration alarm.

Duration time : 0-60 seconds

16. Open Shift Alarm

SHIFT, *shift range*#

Example :

SHIFT, 100#

Means Setting 100 meters shift alarm range, when the ignition turned off, Vehicle's 100 meters' shift will trigger the alarm.

17. Close Shift Alarm

SHIFT, 0#

Close Shift alarm.

18. Remote Upgrade

**UPGRADE, *upgrade package,*
*domain name / IP, port #***

Example :

**UPGRADE, C4_2_0_2.exf, update.
sky200.com, 69#**

Firmware package: C4_2_0_2.exf

Domain: update.sky200.com

Port: 69

19. Cut off Oil / Power

RELAY, 1#

Note:

The Command can only be executed by Center Number When it was sent by SMS,.

The Command can not be executed when GPS is not positioned or vehicle speed higher than 20KM / H

If the setup is successful, device will reply:

RELAY ENABLE OK

Otherwise, Command can not be executed and reply the reasons.

20. Restore Oil / Power

RELAY, 0#

If the setup is successful, device will reply:

RELAY DISABLE OK

21. Restart

RESET#

If the setup is successful, device will reply:
RESET OK

22. Restore factory settings

FACTORY#

If the setup is successful, device will reply:
FACTORY OK

23. Version Inquiry

VERSION#

Device Reply Example :

IMEI:354188046912460

IMSI:9460025500276617

ICCID:898602A51314F1298017

SYSTEM:M6000_V1.8.7

VERSION:MXAPP_V2.0.2
BUILD:OCT 19 2016 16:31:00

24. Parameter Inquiry

PARAM#

Device Reply Example :

IMEI:354188046912460
APN:CMNET
IP:HKGPS.SKY200.COM:32001
TIMER:30,1
CENTER:
SOS:13267052361,,
LANG:CN
GMT:E8.00
SAVING:1

25. Status Inquiry

STATUS#

BATTERY: XX% (Built-in Battery Power Percent)
GPRS: CLOSED (No Network)
 FAILED (Connecting Network or Failure)

SUCCESS (Connected to Network)

GSM: NONE (No GSM Signal)

HIGH / MED / LOW (Signal Strength)

GPS: CLOSED (GPS Module Closed)

FIXED,N (Positioned and satellite number)

UNFIX,0 (Not Positioned yet)

ACC: ON / OFF (ACC on or off)

RELAY: ON / OFF (Relay on or off)

POWER: OK / NC (Power Connected or Break)

MS: LIS3DH (Motion Sensor type or No display if device don't have that component)

Device Reply Example :

BATTERY:100%

GPRS:SUCCESS

GSM:HIGH

GPS:FIXED,10

ACC:OFF

RELAY:OFF

POWER:OK

MS:LIS3DH

26. Latitude&Longitude Inquiry

WHERE#

Device Reply Example:

LAT:N23.02930,LON:E114.32180,COURSE:0.00,S
PEED:0.00KM/H,DATE TIME:2015-05-23 14:39:11

27. Edit Map URL

EURL, *webmap url#*

Example :

EURL, *http://maps,google.com/
maps?q=#*

If the setup is successful, device will reply:
SET EURL OK

28. Map URL Inquiry

URL#

Device Reply Example:

http://map.google.com/?q=22.557868,113.935090
<0.0km/h 0.0>
<2014-12-12 07:32:13>
IMEI:354188047752402

29. Address Inquiry

POSITION#

Device Reply Example:

3 Songpingshan Qimin Road, Nanshan,
Shenzhen, Guangdong, China, 518057

Note: Reply message's language is determined by device's language setting, if get position content failed, device will reply Google Map location link.

30. SMS Forwarding

FW,forwarding number,content#

Examples:

FW,10086,CXYE#

FW,10010,CXHF#

When receives this command, device will send a SMS to ***forwarding number*** with the ***content***, If get a reply from forwarding number in 5 minutes , device will forward the reply to the command sender.

The command usually be used for check the balance of SIM card.

指令说明

- 1、所有指令字符不区分大小写。
- 2、指令各功能参数可以通过短信(SMS 通道)或平台(GPRS 通道)编辑、发送，指令的符号为英文符号（长度占一个字节。
- 3、指令参数之间以逗号分隔，斜体字符需要客户输入相关内容，以#结尾。

例如：要将设备升级到最新程序
需要发送如下指令：

**UPGRADE, C4_2_0_2.EXF, Update.SKY
200.COM, 69#**

1、APN 设置

APN, 网络名[, 登录名, 登录密码]#

举例：

APN, CMNET# (如 APN 无用户名、密码)

APN, internet, internet, internet#

注：

APN# (无参数) 恢复出厂 APN 设定。

若设置成功，设备会回复：

SET APN OK

2、服务器设置

SERVER, 1, 域名, 端口#

SERVER, 0, IP, 端口#

举例：

SERVER, 1, hzgps.sky200.com, 32001#

SERVER, 0, 42.120.22.24, 32001#

若设置成功，设备会回复：

SET SERVER OK

3、GPRS 上传时间间隔

TIMER, 采集时间间隔[, 打包条数]#

举例：

TIMER, 30#

表示 30 秒上传一次

TIMER, 15, 8#

表示 15 秒采集一条数据包，打包 8 条后上传一次，时间间隔为 $15 \times 8 = 120$ 秒

注：

采集时间间隔：0 或者 10~18000s，0 表示禁止上传，默认为 30s

打包条数：1-20 条，默认为 1 条

若设置成功，设备会回复：

SET TIMER OK

4、时区设置

GMT, 时区方位, 整时区[, 半时区]#

举例：

GMT,E,8# (如果没有半时区)

GMT,W,9,30#

参数范围：E/W；0~12；0/15/30/45

若设置成功，设备会回复：

SET GMT OK

5、语言设置

LANG,1/0#

举例：

LANG,1#

LANG,0#

1 表示中文，0 表示英文

若设置成功，设备会回复：

SET LANG OK

6、设置 SOS 管理员

SOS,A,号码1,号码2,号码3#

举例：

**SOS,A,13800138000,13800138001,
13800138002#**

一次设置 3 个 SOS 号码

SOS,A,13800138000#

设置第 1 个 SOS 电话

SOS,A,,13800138001#

设置第 2 个 SOS 电话

SOS,A,,,13800138002#

设置第 3 个 SOS 电话

注：SOS 管理员号码用于紧急求救呼叫及接收各类报警短信。

若设置成功，设备会回复：
SET SOS OK

7、删除 SOS 管理员

SOS,D, 号码 1, 号码 2, 号码 3#

SOS,D,1,2,3#

举例：

SOS,D,13800138000#

直接删除该 SOS 号码

SOS,D,1#

删除第 1 个号码

SOS,D,3#

删除第 3 个号码

SOS,D,2,3#

删除第 2 和第 3 个号码

若设置成功，设备会回复：

DEL SOS OK

8、设置中心号码

CENTER,A,中心号码#

举例：

CENTER,A,13800138000#

注：中心号码仅用于短信断油电。若用短信指令设置该号码，须先设置 SOS 管理员号码，然后用管理员号码设置中心号码。

若设置成功，设备会回复：

SET CENTER OK

9、删除中心号码

CENTER,D#

若设置成功，设备会回复：

DEL CENTER OK

10、工作模式设置

SAVING,0/1/2/3#

举例：

SAVING,1#

注：设备有 4 种工作模式，对有续航要求的设备类型（如 GPT06/K9/K20），选择不同的工作模式可以延长设备的续航能力。

0# 追踪模式：GPS 一直开启；

1# 智能省电：设备静止时 GPS 关闭，运动或被查询位置时，GPS 会开启；（此模式仅适用有传感器的设备类型）

2# 睡眠模式：被查询位置时，GPS 会开启；

3# 冬眠模式：GPS 一直关闭；

若设置成功，设备会回复：

SET SAVING OK

11、管理员来电接通延时

DELAY, 时间#

举例：

DELAY, 30#

注：当设备接到管理员打来的电话，经过以上设定时间后通话会自动接通，设备SIM卡需开通来电显示，可用作打入监听。

时间范围：5-60 秒，默认 10 秒

若设置成功，设备会回复：

SET DELAY OK

12、心跳包上传时间设置

HBT, 心跳时间#

举例：

HBT, 3#

注：心跳包的作用详见移联通信协议
范围：1-60 分钟,默认 3 分钟

若设置成功，设备会回复：

SET HBT OK

13、添加电子围栏

FENCE,<围栏编号>,<围栏标记>,<围栏参数 1>,<围栏参数 2>,<围栏参数 3>,<围栏参数 4>#

举例：

FENCE,1,OR,,,500#

设定 1 号圆形围栏，OR 报警方式：出围栏报警；以当前点为圆心，半径 500 米。

FENCE,2,IR,,,500#

设定 2 号圆形围栏，IR 报警方式：入围栏报警；以当前点为圆心，半径 500 米。

FENCE,3,CR,,,500#

设定 3 号圆形围栏，CR 报警方式：跨越围栏报警；以当前点为圆心，半径 500 米。

FENCE,4,OR,113.5,22.5,500#

设定 4 号圆形围栏，OR 报警方式：出围栏报警；以经纬度（113.5,22.5）为圆心，半径 500 米。

FENCE, 5, IR, 113.5, 22.5, 500#

设定 5 号圆形围栏，IR 报警方式：入围栏报警；以经纬度（113.5, 22.5）为圆心，半径 500 米。

FENCE, 6, CR, 113.5, 22.5, 500#

设定 6 号圆形围栏，CR 报警方式：跨越围栏报警；以经纬度（113.5, 22.5）为圆心，半径 500 米。

FENCE, 1, OS, 113.2, 22.2, 113.8, 22.8#

设定 1 号矩形围栏，OS 报警方式：出围栏报警；以经纬度（113.5, 22.5）、（113.8, 22.8）对角线构成的矩形。

FENCE, 2, IS, 113.2, 22.2, 113.8, 22.8#

设定 2 号矩形围栏，IS 报警方式：入围栏报警；以经纬度（113.5, 22.5）、（113.8, 22.8）对角线构成的矩形。

FENCE, 3, CS, 113.2, 22.2, 113.8, 22.8#

设定 3 号矩形围栏，CS 报警方式：跨越围栏报警；以经纬度（113.5, 22.5）、（113.8, 22.8）对角线构成的矩形。

14、删除电子围栏

FENCE, 0# 或
FENCE, N#

举例：

FENCE, 0#

删除全部围栏

FENCE, 5#

删除 5 号围栏

15、振动报警设置

MOTION, 灵敏度, 持续时间#

举例：

MOTION, 2, 5#

注：

灵敏度参数：**0-9**；**1-9** 表示敏感度，数值越小，设备对振动越敏感，设置为 **0** 将关闭振动报警；

振动持续时间：0-60 秒

若设置成功，设备会回复：

SET MOTION OK

16、位移报警设置

SHIFT, 位移范围#

举例：

SHIFT, 100#

设置 100 米的位移报警范围, 仅当车辆熄火时, 且车辆被动位移 100 米触发报警。

17、关闭位移报警

SHIFT, 0#

关闭位移报警。

18、固件升级

UPGRADE, 升级包, 域名/IP, 端口#

举例：

UPGRADE, C4_2_0_2.exf, update.sky200.com, 69#

升级包为：**C4_2_0_2.exf**

升级域名： update.sky200.com

升级端口： 69

19、断油/电

RELAY, 1#

注：用短信方式执行断油电指令时仅中心号码可执行；GPS 未定位且速度>20KM/H时该命令无法被执行；

若设置成功，设备会回复：

RELAY ENABLE OK

否则，回复错误原因。

20、恢复油/电

RELAY, 0#

若设置成功，设备会回复：

RELAY DISABLE OK

21、重启设备

RESET#

若设置成功，设备会回复：
RESET OK

22、恢复出厂设置

FACTORY#

若设置成功，设备会回复：
FACTORY OK

23、查询软件版本

VERSION#

设备回复样例：

IMEI:354188046912460

IMSI:9460025500276617

ICCID:898602A51314F1298017

SYSTEM:M6000_V1.8.7

VERSION:MXAPP_V2.0.2

BUILD:OCT 19 2016 16:31:00

24、查询参数

PARAM#

设备回复样例：

IMEI:354188046912460

APN:CMNET

IP:HZGPS.SKY200.COM:32001

TIMER:30,1

CENTER:

SOS:13267052361,,

LANG:CN

GMT:E8.00

SAVING:0

25、查询状态

STATUS#

BATTERY: XX%（内部电池电量）

GPRS: CLOSED（无网络连接）

FAILED（仍未成功连接）

SUCCESS（成功连接到网络）

GSM: NONE（无 GSM 网络）

HIGH / MED / LOW（信号强度）

GPS: CLOSED（GPS 模块被关闭）

FIXED,N（GPS 已定位，搜星数）

UNFIXED,0（GPS 未定位）

ACC: ON / OFF（ON: ACC 开；OFF: ACC 关）

RELAY: ON / OFF (ON: 断油电; OFF: 恢复)
POWER: OK / NC (外部电源连接/断开)
MS:LIS3DH (有传感器的设备才会显示此行)

设备回复样例:

BATTERY:100%
GPRS:SUCCESS
GSM:HIGH
GPS:FIXED,10
ACC:OFF
RELAY:OFF
POWER:OK
MS:LIS3DH

26、查询经纬度

WHERE#

设备回复样例:

LAT:N23.02930,LON:E114.32180,COURSE:0.00,S
PEED:0.00KM/H,DATETIME:2015-05-23 14:39:11

27、编辑查询地图链接

EURL, 网络地图链接#

举例：

EURL, *http://ditu,google.cn/maps?q=#*

若设置成功，设备会回复：
SET EURL OK

28、查询地图链接

URL#

设备回复样例：

HTTP://DITU.GOOGLE.CN/?Q=23.029595,114.31
8740
<10.4KM/H 16.6>
<2015-05-23 16:21:35>
IMEI:354188046912460

29、查询位置地址

123

设备回复样例：

中国广东省深圳市南山区松坪山齐民
道 3 号 邮政编码：518057

注：

回复的信息为中文还是英文，由终端设置的语言决定，且需要服务器支持，如获取位置不成功，将返回谷歌地图的位置链接。

30、短信转发

FW, 转发号码, 转发内容#

举例：

FW, 10086, CXYE#

以上可为移动卡查询话费

FW, 10010, CXHF#

以上可为联通卡查询话费

注：

设备收到该指令后，会将**转发内容**发短信到**转发号码**，并把 5 分钟内收到的短信回复再转发给指令发送者。

可用来做查询话费，流量等功能。