

TK-STAR MINI GPS TRACKER USER MANUAL



PREFACE

Thank you for purchasing the GPS 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 not to be responsible for any errors or omissions in this document.

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 GSM dual positioning.

Content	Specs.
Dim.	47mm x 24mm x 18mm(1.85''*0.94''*0.71'')
Weight	25g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Cold status 45s Warm status 35s Hot status 1s
Wall charger	DC 5V--1.0A
Battery	Chargeable changeable 3.7V 600mAh Li-ion battery
Stand by	200hours
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

2. Hardware Description



**1.USB PORT 2.COVER 3.GSM Card Slot 4. INDICATOR
LIGHT**

INDICATOR LIGHT STATUS	MEANING
Green light -Solid	No GPRS signal
Green light -Flash	GPRS connection
Blue light -Solid	No GPS signal
Blue light -Flash	GPS connection
Red light-Solid	Charging
Red light-off	Full charged

Note: GSM SIM CARD INSTALLATION GUIDE: **Only GSM SIM** card works in this model



3.TURN ON THE DEVICE

- ◆ Open the cover, insert the SIM card, the device auto starts.



- ◆ In 30 or 60 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.
- ◆ The device automatically turns off when the SIM card removed.

4.SMS TRACKING

4.1. Call the SIM card phone number in tracker,you will receive a Google Maps link of position, or sending message “G123456#” to SIM card phone number in tracker .

E.g:



4.2. Admin number setting (After admin number setting, all SMS operations to the device are under this number only.)

Command: `admin123456 phone number` (This phone number is your own mobile phone number , not the SIM card number in tracker .)

Reply: `admin ok`

E.g: `admin123456 xxxxxxxxxx`



When the unit is in over-speed alarm, shake sensor alarm, or low battery alarm, it will send alert to the admin number. (13265790180)

Admin number Canceling:

Command : `noadmin123456`

Reply: `noadmin ok`

4.3.Terminal (local) Time Setting (factory setting GMT 0)

Command: `timezone123456 local time zone`

Reply: `time ok!`

E.g: `timezone123456 1`
`timezone123456 -1`
`timezone123456 0`

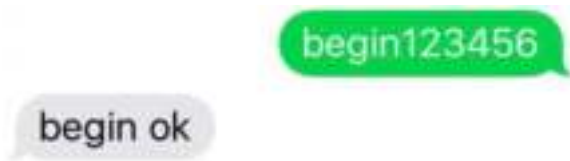


4.4. Reset Hardware

Command: `begin123456`

Reply: `begin ok`

E.g:



5. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE



Pic (1)



Pic (2)

Pic 1: Replied real-time tracking information under GPS satellites signal.

- ◆ **Lat:22.63952 lon:114.17122** Positioning of the latitude and longitude values.
- ◆ **Spd: 000** This refers to the device moving speed. The unit is km/h.
- ◆ **T:24/09/15 16:00** real-tracking time, the Default is London time. You can set language and time zone in APP.
- ◆ **Bat: 100%** The battery value is between 10% and 100%. Once it is less than 20%, it alarms.
- ◆ **2015070203:** Device ID No. to log in APP and platform.
- ◆ **Google Link:** This is the link to the Google map showing the position of the device.

Pic 2: Replied LBS tracking information without GPS satellites signal.

- ◆ **Lac:27a4 1223:** Real-time LBS positioning data.
- ◆ **T:24/09/15 15:17** LBS positioning time.
- ◆ **Bat: 100%** The battery value is between 10% and 100%. Once it is less than 20%, it alarms.
- ◆ **Last: T:25/09/15 03:04** The date and time stamp when the unit last received a GPS signal.



Google Link: This is the position of last gps signal appeared

6. 0 START ONLINE TRACKING

Pls activate GPRS by sending command “[gprs123456](#)” when the tracker is on, and set APN by following steps.

Every sim card carrier has own APN content, we have two methods to find out apn content : check sim card carrier on internet or put sim card into cell phone to find out APN

Two steps to set apn:

- 1), Turn on gprs function by sending command “[gprs123456](#)”
- 2),Set apn by sending command “[apn123456 content](#)” , “[apnuser123456 content](#)” ,“[apnpasswd123456 content](#)” pls note the content is from SIM card carrier , there is small blank after 123456 in every command.

6.1. WEBSITE TRACKING

Platform : www.mytkstar.net

IMEI/ID No. : on the back side of cover

Password: 123456

6.2. APPLICATIONS FOR ANDROID/IOS

Search “TKSTAR GPS” in the Apple App Store/Google Play Store or Scan the QR Code to install the applications on your cell phone.



TKSTAR GPS
li yi

Select “Log in by **IMEI/ID**” on the bottom of screen

Server: www.mytkstar.net

IMEI/ID : on the back side of cover

Password: 123456

6.3. GPRS and APN Setting

Turn on GPRS function by sending command “[GPRS123456](#)” to the tracker, and set the APN for the tracker, then its online tracking by APP and platform works. (if you did it already in 6.0, no need to it one more time)

COMMAND INSTRUCTION TO SET APN

INSTRUCTION	COMMAND	REPLY
Turn on GPRS	GPRS123456	GPRS OK
Set APN (any existing will be replaced)	apn123456 xxxx	apn ok
Set APN username	apnuser123456 xxxx	apnuser ok

Set APN password	apnpasswd123456 xxxx	apnpasswd ok
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E.g:

For tesco mobile SIM card in UK, we got APN information below.

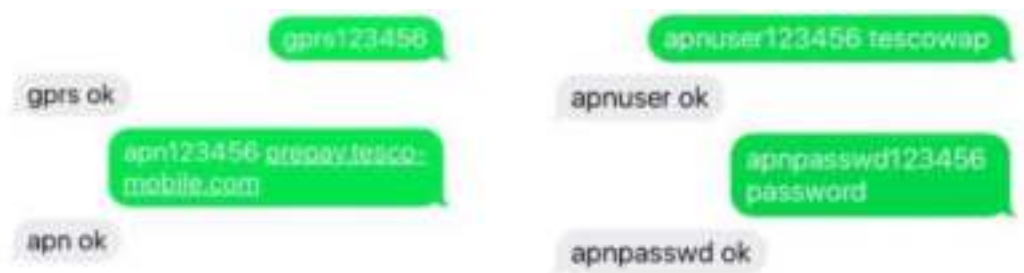
APN name:prepay.tesco-mobile.com

APN username:tescowap

APN password:password

Send SMS to set apn below

1. [gprs123456](#)
2. [apn123456 prepay.tesco-mobile.com](#)
3. [apnuser123456 tescowap](#) (no need to set if without apnuser)
4. [apnpasswd123456 password](#) (no need to set if without password)




6.4 Login the app

Click the icon “TKSTAR GPS” on desktop and then login the ID and the password of the device (the default password is 123456). User can login by ID or by username, user need to contact reseller to register a username if need to login by username.



6.5 Real-time tracking

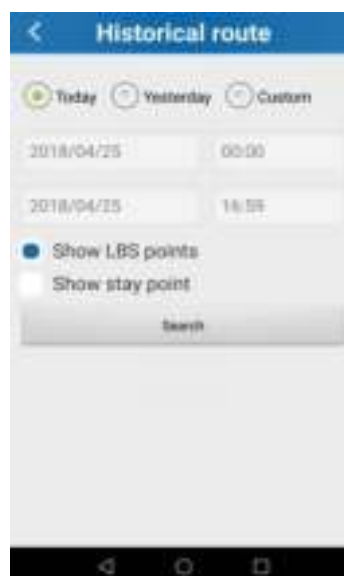
Real-time tracking can not only track the position of the device, but also can track the position of smart phone, user can click “+” and “-” to zoom in and zoom out the map.

Click“” once , APP will show you the latest position ; or call the phone number in tracker , you will get the Google link in SMS.



6.6 Historical track playback

Historical track could find the route map for nearly six months by choosing the beginning and ending time.



6.7 Geo-fence

Click on the upper right corner “+” under main menu for setup geo-fence. Then the device will lock device’s present position as center automatically, then adjust the radius distance by “+”

“ - ” on map (default radius is 100 meters, recommended radius is 500 meters) .Save settings by clicking “OK” . The device will send message when the device is out of the range.



7. Notices:

1. GPS tracking can be worked outdoor.
2. Please make sure GSM SIM card supports making calls, sending messages, GPRS network.
3. Please make sure GSM SIM card is with sufficient balance.
4. Please make sure the GSM card has opened the call shows and turned off the call transfer.
5. Please insert the GSM phone card correctly.
6. Do not assembly and disassembly device at will.

8. FAQ and processing methods.

FAQ	Instructions/Solutions
Fail to turn it on	Please check if battery is charged
No GSM signal	<ul style="list-style-type: none">● Please check if SIM card installed correctly.● Please check if SIM card is GSM network.● Don't turn on the PIN code● no calls can be diverted
No GPS signal	A more open view of the sky is recommended to make sure the device can receive the GPS signal normally.
No reply to SMS command	Password wrong or the format is wrong.
No reply to calling & No alarm message	Authorized / admin phone number is incorrect or has not setup.
SMS position OK, cannot use the APP and web platform	Pls check if APN is correctly set. And pls find out the correct APN content of the SIM card. (Pls refer to 6.3 setting.).
Platform position is difference from the actual position.	No uploading position time or no GPS signal: call the device phone number and receive the position message. If it shows like Pic 2, it means no GPS signal. The position is the last GPS positioning location; If it shows like Pic 1, it means the device doesn't reach the uploading time.