

# TK-STAR GPS TRACKER USER MANUAL



## PREFACE

Thank you for purchasing TKSTAR GPS tracker. This manual shows how to operate the device smoothly in details, please make sure to read this manual carefully before using the device. Please be noted that any update of the manual is made without prior notice. Each time the update of the manual will be released in the latest product sales. The manufacturer won't assume any legal responsibility for any errors or omissions made in this manual.

## 1. SUMMARY

Working based on existing GSM/GPRS network and GPS satellites, this product can locate and monitor any remote targets by SMS, APP and Internet. It adopts the most advanced technology of GPS and AGPS dual positioning.

This device can directly connect with the car OBD port.

Content	Specs.
Dim.	53mm *46mm*23mm(2.1"*1.8"*0.90")
Weight	45g
Network	GSM/GPRS
GPS sensitivity	-159dBm
GPS accuracy	5m
Time To First Fix	Cold status 45s Warm status 35s Hot status 1s
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

## 2. HARDWARE DESCRIPTION



INDICATOR LIGHT STATUS	MEANING
Yellow light -Solid	No GPRS signal
Yellow light -Flash	GPRS connection
Blue light -Solid	No GPS signal
Blue light -Flash	GPS connection

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



### 3.TURN ON THE DEVICE

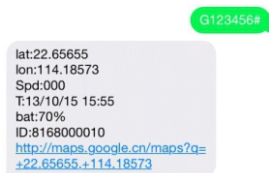
- Turn on the unit outdoors by inserting sim card.
- In 10 or 40 seconds, the unit begin to work and get the GSM signal as well as the GPS signal. The indicating light keep flashing every 3 seconds when the unit has received the signals.
- Insert the unit into the car OBD port.When this unit receives GPS signals normally, you can use it and do any setting as the instructions of this manual.
- Turn off the unit by taking away sim card.

### 4. SMS TRACKING

**Note :** The yellow space  is a blank in SMS command.

**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 set, 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:

admin12345613265790180

Admin123456 13265790180

admin ok

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

Admin number Canceling:

Command :noadmin123456

Reply:noadmin ok

### 4.3.Over-speed Alarm setting

Over-speed Alarm setting:

Command:speed123456 070 (Suppose speed is 70km/h)

Reply:speed ok

E.g:

speed123456 070

speed ok

When the unit speed is over 70km/h, it will send message “speed alarm!” to the admin number every 5 minutes.

Over-speed Alarm canceling:

Command :nospeed123456

Reply:nospeed ok

#### 4.4. Shake Alarm setting

Command:shock123456

Reply:shock ok

E.g:



**Note:**Pls keep the tracker being stationary for 5 minutes, this function will work.

The tracker will send SMS “sensor alarm!” to the admin number when the unit get shocked.

Shake alarm Canceling:

Command:noshock123456

Reply:noshock ok

#### 4.5. Device working mode setting

Sleep by time mode setting:

Command:sleep123456time

Reply:sleep time ok

E.g :



(Tracker only works for 5 minutes after being waked up, and back to sleep mode, GPS shut off, GSM works in low consumption mode. SMS command, calling tracker can wake up the tracker.)

Sleep by shock sensor mode setting: (Factory setting is “Sleep by shock mode“)

Command:sleep123456 shock

Reply:sleep shock ok

E.g:

Sleep123456 shock

sleep shock ok

(No shock for 5 minutes, the tracker will work in “sleep by shock” mode, GPS shut off, GSM works in low consumption. Vibration, SMS, calling can wake up the tracker.)

#### 4.6. Terminal (local) Time Setting (factory setting GMT 0)

Command:timezone123456 local time zone

Reply:time ok

E.g:

timezone123456 +1

timezone123456 -1

timezone123456 0

Timezone123456 +1

time ok

#### 4. 7. Reset Hardware

Commanda : begin123456

Reply : begin ok

E.g :

begin123456

begin ok

## 5. EXPLANATION OF PARAMETERS/CODES IN SMS MESSAGE

lat:22.63952  
lon:114.17122  
Spd:002  
T:24/09/15 16:00  
bat:100%  
ID:2015070203  
[http://maps.google.com/maps?  
q=+22.63952,+114.17122](http://maps.google.com/maps?q=+22.63952,+114.17122)

Pic (1)

lac:27a4 1223  
T:24/09/15 15:17  
bat:100%  
ID:2015070203  
Last:T:25/09/15 03:04  
[http://maps.google.com/maps?  
q=+22.63949,+114.17188](http://maps.google.com/maps?q=+22.63949,+114.17188)

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 30%, it alarms.
- ◆ **2015070203** Device IMEI 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 30%, it alarms.
- ◆ **Last:T:25/09/15 03:04** This is the time when tracker got last 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 “**apn123456content**” , “**apnuser123456content**” , “**apnpasswd123456content**” , pls note the content is from SIM card carrier , there is small blank after 123456 in every command.

## 6.1 WEB ONLINE TRACKING

Platform : [www.mytkstar.net](http://www.mytkstar.net)

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

IMEI 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” on the bottom of screen

Server: [mytkstar.net](http://mytkstar.net)

IMEI : on the back side of cover

Password: 123456

**6.3. 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 apn content	apn ok
Set APN username	apnuser123456 content	apnuser ok
Set APN password	apnpasswd123456 content	apnpasswd ok

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.apn123456prepay.tesco-mobile.com

3.apnuser123456tescowap (no need to set if without apnuser)

4.apnpasswd123456password (no need to set if without password)



## 8. 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.

## 9. 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"><li>◆ Please check if SIM card installed correctly.</li><li>◆ Please check if SIM card is GSM network.</li><li>◆ Don't turn on the PIN code.</li><li>◆ no calls can be diverted.</li></ul>
No GPS	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.
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.