Vehicle GPS Tracker Instruction

Content

Part One. Preface

Thank you so much for using our product!

The device administers your vehicle via GPS (Global Position System), mobile communication, and Internet. It works stable, accurate, and easy to be installed and operate.

Main functions: Our product can locate the device position via GPS accurately. The users can select mobile phone SMS and network (computer network address: www.gps155.com; mobile phone APP) to locate the device and track the target in real-time.

Special Statement:

We will neither undertake any responsibility of personal data loss and accidental damage due to user's improper operation and maintenance, nor any damages it includes.

Without our company's authorization, anyone must not copy, transmit, or transcribe any part of this manual in any form or by any means.

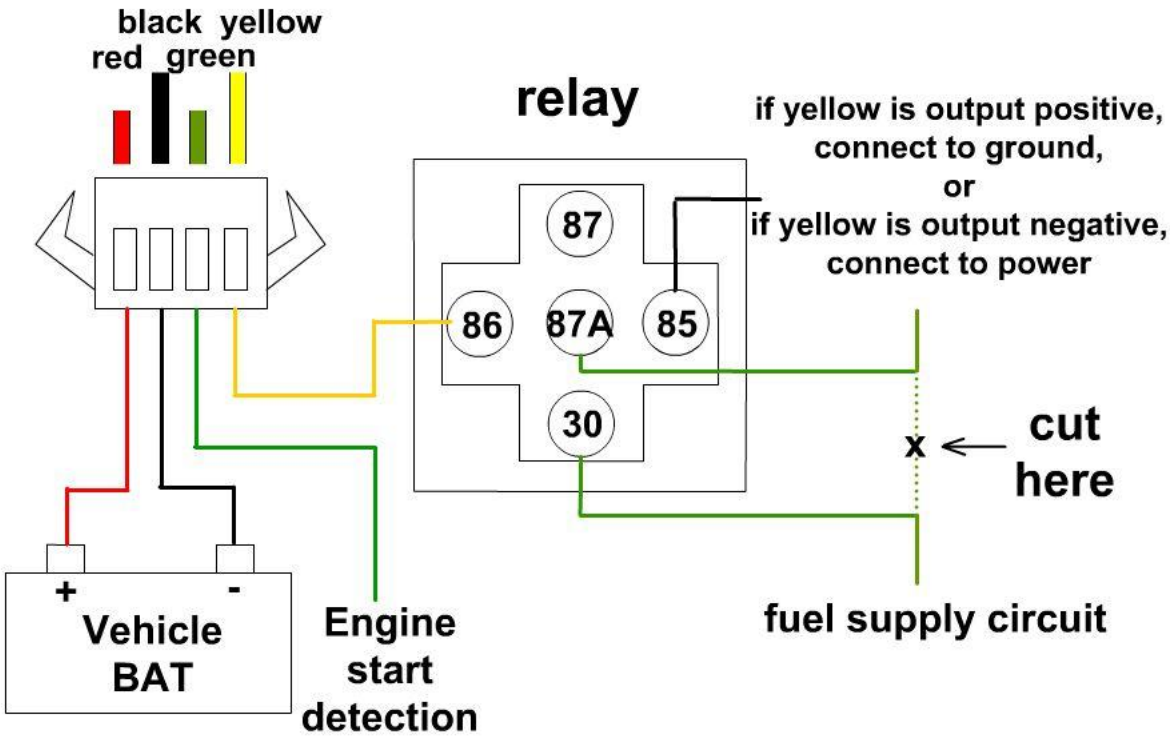
Part Two. Specifications

Working Voltage: refer to markings on the device
Working Environment: -20~65°C, 40% to 80% RH
GSM frequency:
2G device: Quad bands 850/900/1800/1900MHz
4G device:
LTE-FDD: B1/B3/B5/B7/B8/B20/B28
LTE-TDD: B38/B40/B41
BDS/GPS/GLONASS supportable
GPS sensitivity: -162 dBm
Positioning accuracy: 5~10 m (2D RMS)

Working current: less than 30mA (12V); less than 20MA (24V)
Lowest current in power saving mode: below 3mA (12V)

Part Three. Installing

1. Red wire connect to positive 6~30V DC
2. Black wire connects to negative
3. Yellow wire connects to relay device Pin86. If yellow is output positive, Pin85 connect to ground, or if yellow is output negative, Pin85 connect to power. Pin 30 and 87A of the relay device connect to oil pump line in series.
4. Green wire connects to ACC or other alarm devices



- Extensive connections: (optional)
  Contact manufacturer according to function demands

The recommended positions to place device

Note:
Non-waterproof models cannot get wet by rain;
The device side with “This side up” marking should be upward to the sky;
There should be no metal sheet above the device.

Part Four. Start to use device

To use the device, user should insert a SIM card in the device. (some models have SIM card slot, some models needs to open

the lid)
And then send SMS command to device SIM card to perform different functions. (After sending SMS commands to device, device will reply with SMS to user to advice the status of execution. If the SMS command content or format is incorrect, device will tell you the SMS command is invalid)

LED light indication:
User can see LED light from SIM card slot or through the plastic case (some models have semi transparent plastic case).
RED indicates to GPS, if flashing, means got GPS signal.
Blue indicates to GPRS, if flashing, means connected to server.

Set Access Point Name

Firstly need to set APN. In different countries, the user needs to set correct APN to get GPRS for device.
SMS format: **APN***aa*xx*yy
Here “aa” is the name of telecom operator, “xx” is the username and “yy” is the password. You can contact local telecom operator to get related information. If the username and password is blank, you cannot omit the “*”, that is APN*aa**
For example, the telecom operator Jersey Telecom of United Kingdom, its APN name is “pepper”, username is “abc”, password is “abc”, so the SMS command to set APN is
APN*pepper*abc*abc
Default setting of APN is China Mobile.

Register device on server and get username

Send SMS command **REG**000000# (**reg**ister)
Note: default security password is 000000.
After registered, the device will reply SMS of the username and

password to log in the web tracking system.
Note: if the SIM card in device has no GPRS or did not set correct APN, the device will reply SMS to tell you the registration is failed.

User could also authorize 3 other mobile phone number to assist the management of monitoring.
ASSImobile number 1# mobile number 2#…… (**assi**stant)
While setting subsidiary monitoring mobile phone number, need to add country code, e.g.: UK is +44, Brazil is +55
Example to set subsidiary monitoring number: ASSI+44xxxxxx#
CLRASSI mobile number 1# mobile number 2#…… (**cl**ea**r assi**stant)
To delete one of the subsidiary number
CLRASSI
To delete all the numbers
CHKASSI (**ch**ec**k assi**stant)
To query all the subsidiary monitoring mobile phone number

Part Five. Detail of functions

- SMS functions

5.1Basic functions

5.1.1 Get position information

LOCA (**loca**te)
This is to query address of device(need device connected to server. Otherwise will only reply coordinates)
GOOGLE
This is to get Google link from Google map for device
LBS (**L**ocation **B**ased **S**ervice)
This is to query location from LBS data (need server support

LBS database)

AUTOLOCAn

This is to set device to report position information automatically by replying SMS to user's mobile phone. (here n is interval by hours. Value range 0 to 99. 0 is to turn off)

5.1.2 Geo-fence

The user can set geo-fence to get noted that the device is entering or quitting some areas. The center of the geo-fence is the current position of the device

FENCEx*y*n

This is to set a fence. "x" is the number of fence (user can set 3 fences); "y" is the mode of fence (a is "out of the fence", b is "into the fence", and c is "into or out of the fence"); and "n" is the radius of the fence by meter. (value range from 100 to 65535 meters)

For example, if you need to set first fence to be out of fence reminding, and radius is 600 meters, you can send SMS like this FENCE1*A*600

FENCEMODEx*y

This is to modify fence mode. "x" is the number is fence, and "y" is the mode

CLFENCE (**cl**ea**r** fence)

This is to clear all fences which are set

5.1.3 Remote control of engine power

If the device has connected with a relay device, user can cut the supply of engine power

ENGOFF (**Eng**ine **off**)

This is to cut engine power supply

Note: after sending this command, device will control the stop of

vehicle intelligently to ensure safety. If the vehicle speed is above 40 km/h, the execution of cutting power intermissive, that is, to cut and supply alternately; if the vehicle speed is below 40 km/h, the execution of cutting of power will be done in one-time.
The way to resume power and gas supply:
ENGON (**Eng**ine **on**)
This is to resume power supply.

5.2 Settings

- Basic parameter settings

5.2.1 SMS language reply

SMS format:
EN (set to English), **CN** (set to Chinese)

5.2.2 Data transmitting interval

User can set the GPRS data transmission interval according to his demand for device while car is moving or parking.
HBn
To set data transmission interval while moving. n=5~120 seconds. If “n” is set to 0, the data transmission is stopped.
SHBn
To set data transmission interval while parking. n=5~65530 seconds. If “n” is set to 0, the data transmission is stopped.

5.2.3 Time zone

User can set time zone for device if in different countries.
TZEn or **TZW**n (**t**ime **z**one **e**ast / **t**ime **z**one **w**est)
“n” is the number of time zone, TZE is to set eastern hemisphere, TZW is to set western hemisphere. For example, to set time zone for China is TZE8, and to set for Brazil is TZW3

5.2.4 Car name

CARNAME#xxx#

This is to set car name which is displayed in web/SMS reply. "xxx" is the name, consisting letters and digits.

5.2.5 Mileage

DK

This is to query mileage

DKn

This is to modify mileage record. N is digit for KM

5.2.6 SMS reply on/off

SMS1 is to turn on SMS reply

SMS0 is to turn off SMS reply

- Network settings

5.2.7 GPRS on/off

GPRS1 is to turn on GPRS data communication

GPRS0 is to turn off GPRS data communication

5.2.8 IP, port, DNS setting

Format for IP setting is like this: **IP**1#IP address#port#

CXIP is to query IP setting

Format for DNS setting is like this: **DNS**#name#[port#]

DNS is to delete DNS setting

5.3 Alarms

ALARMMODE

This is to turn on vibration and movement alarm.

(After set, if the vehicle is moving at speed above 20km/h, or

device sensed vibration, device will send SMS to user's mobile phone)

CLALARM (**Cl**ear **Alarm**)

This is to turn off vibration and movement alarm.

SENSEn

This is to set vibration alarm sensitivity.(n is a value from 0 to 10. Level 1 is most sensible. Default is level 2. If set to 0, is to turn off vibration alarm)

SPEEDn

This is to set over speed reminding. "n" is the value of speed by kilometer, from 0 to 1000. If speed is above set value, device will send SMS to remind user. If set to 0, is to turn off over speed alarm

BJ1 is to turn on alarm SMS

BJ0 is to turn off alarm SMS

BJ command controls vibration, movement and geo fence alarm SMS, but GPRS data record will still send

Other alarms:

PWROFFALM1 is to turn on external power off alarm

PWROFFALM0 is to turn off external power off alarm

PWRLOWALM1 is to turn on low battery level alarm

PWRLOWALM0 is to turn off low battery level alarm

5.4 power saving mode

Device can be set to power saving mode that after engine is off and no movement, so that to reduce power consumption and GPRS data flow. Once engine is on or sensed vibration, device will go back to normal working mode.

SDMS0 is to turn off power saving mode

SDMS1~3 is to set different modes, level 3 is high level

WAKEn (0<=n<=65530 minutes, 0=turn off power saving mode. Default setting is 5 minutes, which means, after 5 minutes engine power off, and without vibration, device will go to sleep mode.)
While device is in sleep mode, this is to set how long time device in sleep, and then wake up automatically:
SLEEPn (0<=n<=65530 minutes; 0=no wake up. Default setting is 3 hours, which means, after device go to sleep, each 3 hours, device will wake up automatically.)
DEEPSLEEP1 is to set device unable to be wake up by vibration
DEEPSLEEP0 is to set device be able to be wake up by vibration

5.5 Check settings

CHECK to check status of device
ET to check firmware version
ICCID to check SIM card ICCID
IMEI to check device IMEI

5.6 Other functions

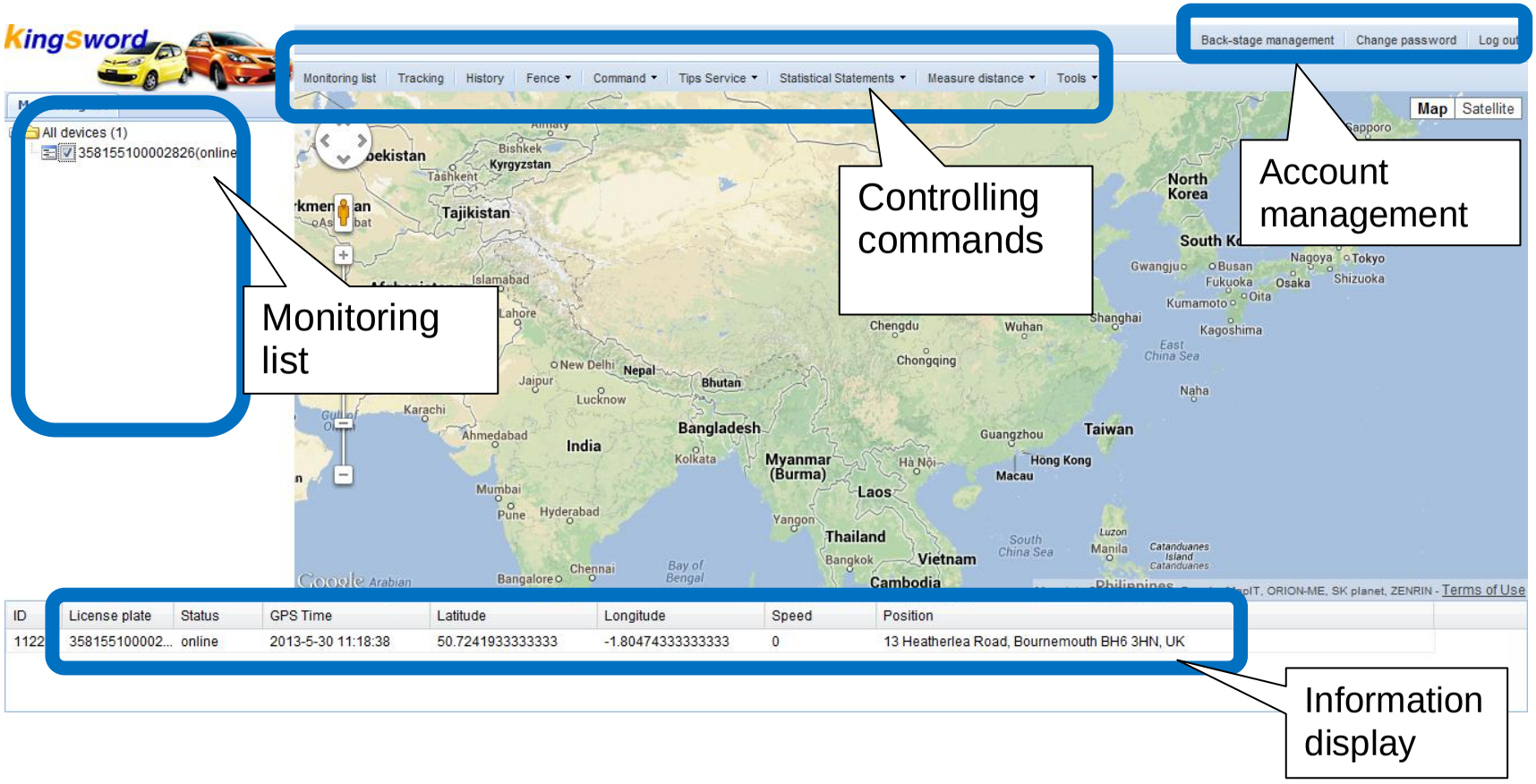
RESTART to reboot device
RST to reset to default setting
TURNDETON to send data while make turning in driving
TURNDETOFF not to send data while make turning in driving
CALLxxx to control device call to phone number xxx
TCP to set device communicate via TCP mode
UDP to set device communicate via UDP mode
MODIFYPW000000123456 to modify device password from 000000 to 123456
PLFMPW to query log in password for device

- Network functions

A. Log on to the web tracking system to track online with PC.
Address: www.gps155.com

The main functions of web tracking system including: real time tracking, check history, geo-fence, over speed alarm, cut/resume power supply, vibration alarm, power-saving mode, mileage, etc. Besides, all SMS command can be sent from web tracking system.

Monitoring and controlling page



B. Mobile APP

Part Six. FAQ

Below are some problems which users met frequently:

1. No SMS reply from device
2. Device replied SMS "protocol error"
3. Cannot register
4. Cannot log in to web system
5. Cannot get location

Main points to check:

1. Device is well connected to power
2. SIM card is well inserted to device
3. SIM card supports SMS function
4. Device SIM card has enough balance
5. SMS command content is correct
6. APN is well set
7. Login username and password is correct
8. Antenna side is upward to the sky
9. No metal object around or above device

Part Seven. SMS command list

Basic functions
Locating: **LOCA, GOOGLE, LBS, AUTOLOCA**
Geo Fence: **FENCE, FENCEMODE, CLFENCE**
Engine control: **ENGOFF, ENGON**
Setting
Language: **EN, CN**
Data interval: **HB, SHB**
Time Zone: **TZE, TZW**
Car name: **CARNAME**
Mileage: **DK**
SMS/GPRS switch: **SMS, GPRS**
IP, DNS: **IP, CXIP, DNS**
Alarms
Antitheft: **ALARMMODE, CLALAM, SENSE**
Other alarms: **SPEED, PWROFFALM, POWLOWALM, BJ**
Power saving
SDMS, WAKE, SLEEP, DEEPSLEEP
Checking
CHECK, ET, ICCID, IMEI
Other
RESTART, RST, TURNDETON, TURNDETOFF
CALL, TCP, UDP, MODIFYPW, PLFMPW