

Magnetic GPS Tracker Manual



Preface

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.

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.

2. Applications

1. Vehicle rental / Fleet management etc

2. Container / cargo / asset tracking

3. Hardware Description

1. ON-P3A-2G Device
2. Charger
3. USB Cable
4. Manual
5. Warranty card

4. Content Specs.

Content	Specs.
Dim.	130mm x 30mm x 20mm
Weight	300g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS chip	UBLOX
GPS sensitivity	-162dBm
GPS accuracy	10m
Time To First Fix	Cold status 35-80s Warm status 35s Hot status 1s
Car charger	12—24V input 5V output
Wall charger	110—220V input 5V output
Battery	Chargeable changeable 3.7V 10000mAh Li-ion battery
Standby	100 days
Storage Temp.	-40°C to +85°C
Operation Temp.	-20°C to +55°C
Humidity	5%--95% non-condensing

5. Usage:

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 by the manufacturer. This unit adopts built-in Li-ion battery, and full battery can standby

100days. 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



- Insert the SIM Card then the unit starts to work.
- When this unit receives GPS signals normally, you can use it and do any setting as the instructions of this

manual.

1. Blue LED for GPS working status

Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	Searching GPS signal
Continuously in bright status	GPS location successful
Blue led off	Sleep mode

2. Red LED for power charging status

Status of indicator	Meaning
Red led on all the time	Charging
red led off	Full battery or Device off

3. Yellow LED for GPRS working status

Status of indicator	Meaning
Slow flash (flash 1s after every 2s)	GSM / GPRS signal Searching
Continuously in bright status	GSM/GPRS Successful
Yellow Led off	Device sleep

5.5 Change the password

5.5.1 Set Password: Send sms: “**password+old password+space+new password**” to the unit to change the password.

For Example, please send sms: “ **password123456 000000**” to terminal device, it will reply sms: “**password OK**”. New password 000000 changed in success.

5.5.2 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.

5.5.3 Make sure the new password is in 6 digits Arabic numbers, or the tracker can not recognize the password.

5.5.4 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.

5.6 Authorization

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.

5.7 Single Locating

Single message inquires the latitude and longitude information, any telephone number can send command: “**g1234**” to the equipment, then the equipment will reply the latitude and longitude information to this telephone

*Tracking location, When GPS signals is too 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.

5.8 Work mode

5.8.1 Auto work mode (default)



Auto track mode sms: **auto123456** ,
reply: **OK**.

In this mode, in ten minutes if there is any alarm, it will enter sleep mode. GPS and GPRS will be off. If you call it or send sms or there is vibration alarm. It will be waken up.

5.8.2 No Sleep mode

No sleep mode sms: **ns1p123456** , reply: **OK**.

The unit will work always and don't sleep.

Set time interval SMS: **upmove123456 120** reply: **OK**.

(120 stands for the time interval is 120 seconds.)

Note: the interval must not less than 20s.

5.9 Movement alert

5.9.1 Set up: you can send SMS: **move123456 300** reply: **move ok**.

(300 Stands for 300meters)

5.9.2 Cancel: Send SMS:” **nomove123456**” to deactivate the movement alert, tracker will reply “**nomove ok**”.

5.10 Overspeed alert:

5.10.1 Set up: Send SMS: “**speed+password+space+080**” to the unit (suppose the speed is 80km/h), and it will reply “speed ok!”.

5.10.2 Cancel: Send SMS “**speed+password+space+000**” 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.

5.11 Low battery alert

When GPS device battery is going to be about 3.6V, it will send low battery alert SMS .

5.12 Shock alert

Note: It is effective sending by authorized number

Open Shock SMS alert SMS: **125#** Reply: OK.
Cancel Shock SMS alert SMS: **126#** Reply: OK.

Open Shock Call alert SMS: **122#** Reply: OK.
Cancel Shock Call alert SMS: **121#** Reply: OK.

5.13 Voice monitor

SMS Format: **88**

First you need to set the authorized number. Then send SMS “**88**” to the SIM Card number of the device. Then the device will call back you.

Notes: you must set the authorized number.

5.14 GPRS setting

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

5.14.1 Setting up APN

5.14.1.1 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.

5.14.1.2 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”.

5.14.1.3 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).

5.14.2 Set IP

Send SMS command: “**IP 103.4.244.217 7018**” (**IP + Space + IP+Space+Port**) If succeeded, the tracker will return the message ,“**set IP OK**” .

5.15 Reboot and Factory Settings command

5.15.1 Reboot command format: **CQ**

5.15.2 Factory Settings command format: **FORMAT**

6.0 Cautions

6.1 Keep the unit dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.

6.2 Don't use & store the unit in dusty places.

6.3 Don't put the unit in overheated or overcooled places.

6.4 Handle carefully. Don't vibrate or shake it violently.

6.5 Clean the unit with a piece of dry cloth. Don't clean in chemicals, detergent.

6.6 Don't paint the unit, this may cause some foreign materials left in between the parts.