

GPS/GPRS/SMS BRACELET PERSONAL / PET TRACKER

MODEL ET9000/ET9000N



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I. Operation Notices

Thank you for purchase of our ET900N System. This system fully complies European GSM standard, please read carefully for optimal results of the unit.

- Do not disassemble by person. The unit will loose warranty and maintenance service guaranteed by ExtremTrac
- Any unauthorized maintenance of the unit by manufacturer will cause guarantee period invalid.
- Please use peripherals provided by manufacturer, should any damage caused by components of non-manufacturer, the product will fail to acquire the remaining warranty right on quality and maintenance service provided by the original factory.
- The product is a hi-tech product; keep out of excessively high-humidity areas to avoid damages.

2.Application & Functionality:

ET9000 is a personal remote position device with build-in GPS and GSM/GPRS modules. It is a small size, high accuracy remote location tracking device. Based on GPS satellite , it provides accurate position information under dynamic conditions . Personal remote position device transmit the longitude and latitude coordinate to authorized cell phone.

You can use these features for protecting and searching car, boat, Pet ,children and old persons. Further , you can use it as a security purpose and other purpose which needs remote positioning such as asset protection and animal tracking.

- Transportation : Locating the trucks
- Car : Locating the missing car
- Child care: Tracking the lost child
- Elderly care : Dementia sufferers' and senior safety
- Animal Tracking: Finding the missing pets location
- Outdoor activities: Bike riding and hiking

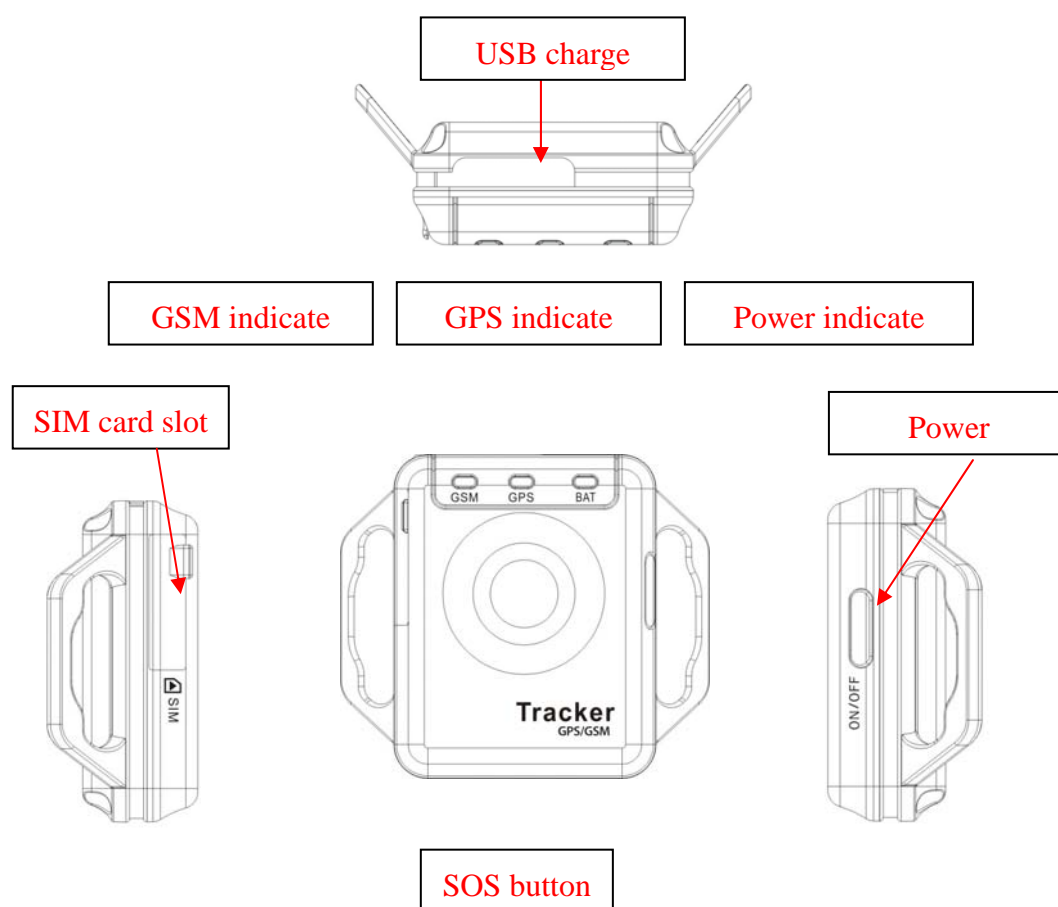
Functionality

Types of reporting	<ol style="list-style-type: none"> 1. SMS, 2. GPRS 3. If user uses no GPRS, can also use SMS alone.
Tracking and alarm	<ol style="list-style-type: none"> 1. Fix time report 2. SOS alarm (ET9000N) 3. Speeding 4. Automatic sleep mode
Auto tracking	<ol style="list-style-type: none"> 1. SMS position request 2. GPRS position request
Geofence	<ol style="list-style-type: none"> 1. Geofence remote setting 2. automatic Geofence alarm to center
Low battery	<ol style="list-style-type: none"> 1. Low battery warning by LED 2. Low battery warning report <p>Inform the user for low battery by keeping the red light on and report to the control center by SMS or GPRS at the same time.</p>
Long Standby hours	The standby time of ET9000 is 40 hours
Optional wrist band Pet collar	<ol style="list-style-type: none"> 1. Wrist band for ET9000N 2. Dog collar for ET9000
Waterproof	Optional waterproof sleeve
External power charging	Using vehicle power to charge the unit

3 Get Started

(3.1) Accessories

1. ET9000
2. AC adapter
3. Tool for inserting SIM card



(3.2) Charge Battery

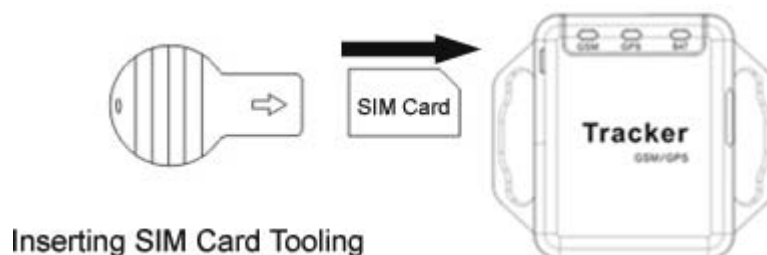
- i. The tracker is operated by its built-in and irreplaceable lithium polymer battery.
- ii. The FULLY charged battery can supply power for the tracker for about 35 hours(In standby mode)
- iii. Do not remove, puncture or damage the battery or throw the battery into fire or water. The battery might burst , explode or release dangerous chemicals.
- iv. Before you can use the ET9000, you must FULLY charge the battery by AC adapter or Cigarette car charger at least 3 hours under the power off condition.
- v. Charge state indicate:
 - a) Red light is on, it indicates that it is in charging.
 - b) Red light is off, it indicates that it already completed to charge.

(3.3) Buy SIM card

Buy SIM card from local service provider.

(3.4) Install SIM card

- Insert a Valid GSM SIM card into the “SIM Card” slot on the left of the tracker
- (Note: Use the given tool to push the SIM card into the slot and the SIM card will be locked automatically.)



4 Operation

Fast Startup Operation

- Place the tracker in an open area and press ON/OFF button for 3 seconds to power on the tracker.
- The tracker starts to work within 10 sec.~ 20 sec. and to receive the GSM signals. When the tracker has GSM signals, the GSM indicator light will flash every 3 seconds. If there is no GSM network, the GSM indicator light will bright 1 second and then shutoff 0.5 second.
- While GSM is connecting with the network, the GPS starts searching for satellite signals. The GPS indicator light flases every 2 seconds. When the GPS functions successfully, the GPS indicator light is on.
- When both GPS and GSM of the tracker work, you can use your mobile phone to dial to the number of the tracker to locate it.

5. Configuration (SMS /GPRS):

Standard GPS report format:

\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

note:

UTC Time: 09:23 13.299

(A) Data is valid

Latitude: 22°38.8947",North

Longitude: 113°55.2253",East

Speed: 0.00 (sea mile) 1mile=1852meter

Course: 311.19

Date: 01032007

Standard report send to Center number by SMS, and all alarm message send to Master number

- 🚧 Default mode: SMS do not send report; GPRS report at every 10 minutes. In order to stop GPRS report and start SMS mode, user have to send *GP008 to change GPRS into SMS communication mode. But in any mode, the tracker accept the SMS command sent from center number defined by *GP001

- ✚ But if want to send command through GPRS, user have to let tracker work in default GPRS mode, or send *GP0081 command to tracker, in order to open GPRS if device currently working with SMS.
- ✚ In both GPRS working mode and SMS mode, the tracker accept the control command from GP001 center number.

A: *GP001,<Cent.No.>,<Password>

Function: SET CENTRAL No. COMMAND

Syntax: *GP001,<Cent.No.>,<Password>

Acknowledge by SMS: *CR001, <Cent.No.>

Ack by GPRS: *CR001,IMEI,<Cent.No.>

Parameters: <Cent.No.> Set new host Central No.
<Password> Command password

For example:

*GP001,13728791848,0000

Return:

Acknowledge by SMS: *CR001, 13728791848

Ack by GPRS: *CR001,IMEI,13728791848

Comment:

*GP001 is command header, red text is new host central No.

Note: The password is system password.

C: *GP003,<TOTAL>,<time>,<Password>

Function: FIX TIME REPORT (this setting command can change the SMS report time and GPRS time interval.

Default mode: SMS do not send report; GPRS report at every 10 minutes. In order to change the GPRS and SMS working mode, user have to send *GP008 to change GPRS and SMS.

<*GP003> command head ,

Parameter:

<TOTAL> length max 4 BYTE; min 1 =0(OFF)

<time> length max 8 BYTE; min 60s; <60(OFF) It's need set when

GPRS mode

<Password>length 4 BYTE Command password

Ack by SMS: *CR003,,02,90

Ack by GPRS: *CR003,IMEI,02,90

For example: * GP003,123,90,0000

Total=123times 90second/times

Return:

Ack by SMS: *CR003,02,90

Ack by GPRS: *CR003, IMEI,02,90

D: *GP004,<aaaaaaaaaaaa>,<Password>

Function: Set tracker ID

Syntax: *GP004, <aaaaaaaaaaaa>,<Password>

Ack by SMS: *CR004, IMEI

Ack by GPRS: *CR004, IMEI

Parameters: <aaaaaaaaaaaa>= 11 digit numbers for **IMEI**
<Password>

Command password

For example: *GP004,13728791848,0000

Return:

Ack by SMS: *CR004, IMEI

Ack by GPRS: *CR004, IMEI

Tracker ID set to be 13728791848

Note: if **IMEI** is set, the report format will become:

13728791848,\$GPRMC ,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.1
9,010307,0,,

If **IMEI** not set, tracker report format is:

\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

E: *GP005,<MASTER.No.>,<Password>

Function: SET MASTER MOBILE No. COMMAND

Syntax: *GP005,<13728791848>,<Password>

Ack by SMS: *CR005,<13728791848>

Ack by GPRS: *CR005,IMEI, <13728791848>

Parameters: <Password>

Command password

For example: *GP005,13728791848,0000

Return:

Ack by SMS: *CR005,13728791848

Ack by GPRS: *CR005,IMEI, 13728791848

SOS, low battery alarm send to master NO :

Emergency

alarm,\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

low battery! Please

charge,\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

speed

alarm,\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

geofence

alarm,\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

F: *GP006,<Password>

Function: SINGLE POSITION REQUEST
Syntax: *GP006,<Password>
Parameters: <Password>
 Command password
For example: *GP006,0000

Ack by SMS:

\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

Ack by GPRS:

IMEI,\$GPRMC,092313.299,A,2238.8947,N,11355.2253,E,0.00,311.19,010307,0,,

G: *GP007,<SPEED>,<Password>

Function: SET SPEED LIMIT COMMAND
Syntax: *GP007,< SPEED >,<Password>
Ack by SMS: *CR007,< SPEED >
Ack by GPRS: *CR007, IMEI, < SPEED >
Parameters: < SPEED > length max 3 BYTE ;max 999km / min 001km / 000(OFF)
 <Password> Command password
For example: *GP007,123,0000
 (*command: limited speed=123km/h)
Return:
Ack by SMS: *CR007, 123
Ack by GPRS: *CR007, IMEI,123

H: *GP008,<a>,<Password>**Function:** SET GPRS or SMS MODE. COMMAND**Syntax:** *GP008, <a>,<Password>**Ack by SMS:** *CR008, <a>**Ack by GPRS:** *CR008, IMEI, <a>**Parameters:** <a>

a=1 GPRS/Internet MODE

a=0 SMS MODE(Default)

<Password>

Command password

For example: *GP0080,0000**Return:****Ack by SMS:** *CR008, <a>**Ack by GPRS:** *CR008, IMEI, <a>

The tracer is after send outing the data with GPRS, and receive 10 command datas .

Tracker default mode is GPRS, users need to send a command to change into SMS mode.

L: *GP012,<CMNET>,<user name>,<user password>,<IP>,<PORT>,<Password>**Function:** GPRS setting**Command :** *GP012,CMNET,user name,user

password,IP,PORT,<Password>

Return: *CR012,IMEI,APN,user name,user password,IP,PORT,**Parameters:**APN length max 29 BYTE 兼容目前最长的.

user nam length max 20 BYTE 兼容目前最长的.

password length max 9 BYTE 兼容目前最长的.

IP length max 17 BYTE www 或 IP.

PORT length max 5 BYTE

<Password>length 4 BYTE Command password

For example:***GP012,CMNET,,,202.96.134.133(WWW.163.COM),80,<Password>****Return:****Ack by SMS:*****CR012,CMNET,,,202.96.134.133(WWW.163.COM),80****Ack by GPRS:*****CR012,123456789012345,CMNET,,,202.96.134.133(WWW.163.COM),80**

S: *GP018,<Password>**Reset****Function:** reset the tracker**Syntax:** *GP018,<Password>**Ack by SMS:** *CR018,**Ack by GPRS:** *CR018, IMEI**Parameters:** <Password>

Command password

For example: *GP018,0000**Return:****SMS:** * CR018**GPRS:** * CR018, IMEI**T. *GP0F1,<DIST>,<Password>****Function:** SET GEO FENCE**Syntax:** *GP0F1,<DIST>,<Password>**Parameters:** 1234 meter Square district

SET FENCE: The current position is an original point

Ack by SMS:

*CR0F1,1234

Ack by GPRS:

*CR0F1, IMEI,1234

For-example:***GP0F1,1234,0000****For-example:****SMS:** * CR0F1,1234**GPRS:** * CR0F1, IMEI,1234**NOTE: all the above command can also be sent from server by GPRS.**

users can set below parameters in PC program.

C_NO= -Center number
M_NO= -Master number
ID= -Tracker GSM IMIE
TIME=60 -Fix time report,need Parameters,0 or other
TOTAL=0 -Fix TOTAL report,need Parameters,0 or other
DIST=5000 -Fix Geofence report,need Parameters,0 or other
SPEED=40 -Speed limit,need Parameters,0 or other
APN=cmnet GPRS APN
NAME= GPRS NAME
PASSWORD= GPRS PASSWORD
IP=116.24.87.74 GPRS IP
PORT=1234 GPRS PORT
GPRS_MODE=0 GPRS MODE(default 0) ,need Parameters,0 or 1

6. Specification

GPS Module	20 Channels all in view tracking GPS module
Sensitivity	-158 db
Acquisition time:	Reacquisition < 0.1 sec • Hot Typically < 6sec Time To First Fix (TTFF) • Warm Typically < 35sec TTFF • Cold Typically < 45sec TTFF
Positioning Accuracy :	Less than 10 meters

•Frequency	Multi-band 850/900/1800/1900 MHz
•GSM Antenna	Internal GSM/GPRS antenna
•GPS Antenna	Internal active GPS antenna
•Operation time:	• With Battery alone: 35 hrs after fully charged; in standby mode
• Device Size:	49*39*19mm
• Weight:	50g
•Operating Temperature:	-30°C to + 70°C
•Storage Temperature:	-40°C to + 85°C
•Relative Humidity:	5% to 95%, non-condensing

7 Frequently Asked Questions

7.1 Q: The first time to use tracker but it do not reply you the current locate just reply "last locate"

A: Switch on the tracker to received the GPS signal in opening field and call it again to get the current position

7.2 Q: Tracker do not reply SMS to your mobile phone after you call it

A: The PIN code should be set in empty

7.3 Q: Cannot set the authorized user with sent SMS

A: Please notice the SMS should be write in capital letter and end with a comma