

GPS Personal Tracker

User Manual

V7.0

GT30i



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1 Product Overview

The GT30i is a GPS/GPRS based personal tracking device, which is compact and easy to use.

GT30i has inbuilt GPS module to obtain accurate position data and utilizes its GSM capability to send the position data to a specified mobile phone or server base to allow users to monitor people or pets using the tracker.

GT30i supports two way voice communications and can be activated either by the guardian calling the tracker or the tracker holder activating the SOS button. The tracker can be configured to report its location to the server base or mobile phone at preset intervals.

With internal memory, GT30i can store GPS coordinates when there is no GPRS connection or at a specified interval requested by the user.

GT30i has the following functions and features:

- SMS and GPRS TCP/UDP Communication (Meiligao Protocol)
- AGPS (with GSM Base Station ID)
- Track on Demand
- Show Location Directly on Mobile Phone
- Track by Time Interval
- Track by Distance
- Two-way Audio
- Listen-in (Voice Monitoring)
- GSM Blind Area Memory
- Internal Memory for Logging
- Inbuilt Motion Sensor for Power Saving
- SOS Panic Button
- Movement Alarm
- Geo-fencing Control
- Low Battery Alarm
- Speeding Alarm
- GPS Blind Area Alarm (in/out)
- Three Buttons for Making Phone Call and/or Sending Message
- Built-in Super Magnet (optional)

2 For Your Safety

Read these simple guidelines. Not following them may be dangerous or illegal.

Switch on safely

Do not switch on GT30i when wireless phone use is prohibited or when it may





cause interference or danger.

Switch off in hospitals

Follow any restrictions. Switch GT30i off near medical equipment.

Switch off in aircraft
Switch off when refueling

Follow any restrictions. Wireless devices can cause interference in aircraft. Do not use GT30i when at a refueling point. Do not use near fuels or

chemicals.

Switch off near blasting

Follow any restrictions. Do not use GT30i when blasting is in progress.

Qualified service

Only qualified personnel can repair GT30i.

Water resistance GT30i is not fully water resistant. Keep it dry. Use waterproof bag if

necessary.

3 GT30i Characteristics

Items	Specification
Charging Voltage	DC 4.2-5.5V/400mA (Mini USB port)
Internal Battery	Rechargeable and replaceable 1350 mAh battery (3.7V),
Dimension	77 mm × 51 mm × 25 mm
Weight	80g (with battery)
Operating temperature	-20° to 55° C
Humidity	5% to 95% Non-condensing
GSM module	Quad Band GSM 850/900/1800/1900Mhz
GPS Chipset	latest GPS SIRF-Star III chipset
GPS Sensitivity	-158Db
GPS Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Position Accuracy	10 meters, 2D RMS
Velocity Accuracy	0.1 m/s
Time Accuracy	1 us synchronized to GPS time
Default datum	WGS-84
Reacquisition	0.1 sec., average
Hot start	1 sec., average
Warm start	38 sec., average
Cold start	42 sec., average
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/second (1000 knots) max.
Acceleration Limit	Less than 4g
Jerk Limit	20 m/sec
Work time	55 hours in power-saving mode and 12 hours in normal mode
Memory	4MB flash memory
LED	3 LED lights to show power, GPS, GSM and other status.
Button	3 buttons(SOS/B/C) for making phone calls and sending SMS



4 Getting Started

This section will describe how to set up your GT30i.

4.1 Hardware and Accessories

GT30i is supplied in a box which includes:



4.2 View



4.3 Functional Parts

Your GT30i has four buttons and three LEDs with three different colors to indicate the status of the unit.



Red LED - indicating battery status		
Off Power is off or charging is complete		
Flashing (every 0.1 second)	Low battery	



On Charging Flashing (1 second on and 2 seconds off) Working Blue LED - Indicating GPS status On One button is being pressed Flashing (every 0.1 second) The unit is being initialized Flashing (1 second on and 2.9 seconds off) GT30i has a GPS fix Green LED - indicating GSM status GT30i has no GPS fix On One call is coming in / one call is being made Flashing (1 second on and 2.9 seconds off) GT30i is connected to the GSM network Flashing (1 second on and 2.9 seconds off) GT30i is not connected to the GSM network Flashing (1 second on and 2.9 seconds off) GT30i is not connected to the GSM network Buttons To make a phone call and/or send an SMS to the preauthorized phone number. Power On/Off Button To make a phone call and/or send an SMS to the preauthorized phone number. Press it to increase volume during conversation. Call B Call B To make a phone call and/or send an SMS to the preauthorized phone number. Press it to reject a call, cancel calling or complete a conversation. One see a phone call and/or send an SMS to the preauthorized phone number. Press it to decrease volume during conversation. One see a phone call and/or send an SMS to the preauthorized phone number.		The state of the s
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Earphone Plug For connecting earphone		firmware update, configuration and exporting stored data)
	SIM Card	To insert SIM card here
Lanyard LoopFor connecting lanyard.	Earphone Plug	For connecting earphone
	Lanyard Loop	For connecting lanyard.

4.4 First Use

Please read this manual before using your GT30i.

- 4.4.1 Ensure that your GT30i has a working SIM installed.
- Check that the SIM has not run out of credit (Test the SIM in a phone to make sure it can send and receive SMS)
- Check that the SIM Lock code is turned off
- If you require the function of sending an SMS location report to the authorized phone number when it makes a call to the GT30i, please make sure the SIM installed supports displaying caller ID.





4.4.2 Charge the battery for at least 3 hours in power-off status using the wall charger or car charger. Or you can connect the tracker directly to computer by USB for charging. Red light is on during charging and off when charging is complete.



4.4.3 Push the Power On/Off button to the ON side and wait for about 20 seconds. It will then enter standby mode. It is suggested that you be in an outer place where it can receive better GPS when you turn on the device.



Check that the Red LED (Battery) is flashing 1 second on and 2 seconds off.

Check that the Green LED (GSM) is flashing 0.1 second on and 2.9 seconds off

Check that the Blue LED (GPS) is flashing 0.1 second on and for 2.9 seconds off.



5. Change Password

Command: W******,001,#####

Description: Change user's password.

Note

- 1. ****** is user's password and the default password is 000000. The tracker will only accept commands from a user with the correct password. Commands with wrong password will be ignored.
- 2. ##### is the new password. Password should be 6 digits.

Example:

W000000,001,123456 W123456,001,999999

6. Time Zone

Command: W*****,032,T

Description: Correct time into your local time

Note:

- 1. Default time of the tracker is GMT
- 2. This correction is applied to location reports by SMS and SMS alarms.

T=0, to turn off this function.

T=[-32768,32767] to set time difference in minute to GMT.

For those ahead of GMT, just input the time difference in minute directly. For example, GMT+8, W000000,032,480

'-'is required for those behind GMT. For example, W000000,032,-120.

Example:

W000000,032,480



7. Track

7.1 Track by SMS

- Track on Demand - Reply with longitude, latitude, speed and date

Command: W*****,000

Description: Get the current location of the tracker, send this SMS or make a telephone call directly to the tracker and it will report its longitude and latitude by SMS with format as follows:-

Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed = 2.6854Km/h, 2008-12-24,01:50

Example:

W000000,000

- Track on Demand - Reply with a link to Google Map

Command: W*****,100

Description: Send this command to the tracker and then you receive an SMS with an http link. Click on the link then the location can be shown directly on Google Map on your mobile phone. For example:

 $\underline{http://maps.google.com/maps?f=q\&hl=en\&q=22.540103,114.082329\&ie=UTF8\&z=16\&iwloc=addr\&om=12.540103,114.082329\&ie=UTF8\&z=16\&iwloc=addr\&ow=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082329\&iw=12.540103,114.082320,114.08200,114.08200,114.0000,114.0000,114.0000,114.0000,114.0000,114.0000,114.0000,114.0000,114.0000,114.0$

Note: Only smart phones and PDA support this function.

Example:

W000000,100







7.2 Track by Calling

Make a missed call to the tracker and it will report its longitude and latitude by SMS with format as follows:-Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed = 2.6854Km/h, 2008-12-24,01:50

7.3 Track by Preset Interval

Command: W******,002,XXX

Description: Set an interval for the tracker to continuously return its location by SMS

Note:

- 1. XXX is the interval in minute.
- 2. If XXX=000 to turn off tracking by time



Example:

W000000,002,030

The tracker will send location data back to your mobile phone every 30 minutes.

7.4 Google Earth and Google Map

Download Google Earth from http://earth.google.com/.

Start Google Earth (For more information about Google Earth please refer to http://earth.google.com/) or go to http://maps.google.com in your Internet Explorer

Input the latitude and longitude that you receive from the tracker by SMS and click the search button. Google Earth or Google Maps will display the location for you.

Example:

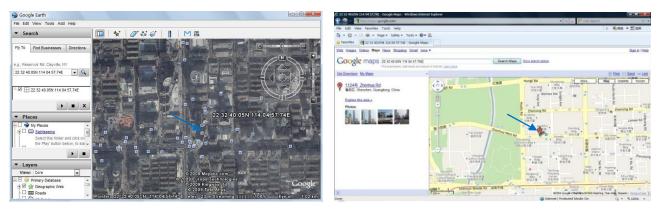
When you receive: Latitude = 22 32 40.05N Longitude = 114 04 57.74E

Type as the following picture shows:

(Note: you should input the latitude and longitude as: 22 32 40.05N 114 04 57.74E)



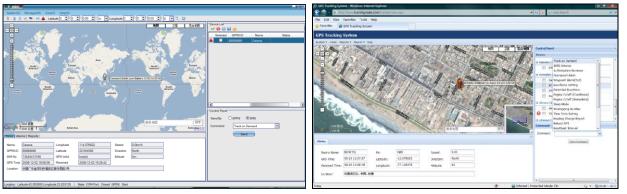
And then you can find the location of your tracker:



Or you can use local map software on PDA or car navigation device to input the coordinates.

7.5 Track by MS01/MS02

If you have bought our GPS Tracking Software MS01 or MS02, after proper configuration, you can do tracking on MS01/MS02.





Please refer to MS01/MS02 User Guide for more information.

7.6 Track by GPRS (Meiligao Protocol) between Server and Tracker

7.6.1 Set Tracker's GPRS ID

Command: W******,010,ID

Description: Set a digital GPRS ID for the tracker.

Note: GPRS ID must not over 14 digits.

Example:

W000000,010,00001

7.6.2 Set APN

Command: W******,011,APN,Username,Password

Description: Set APN details for the tracker

Note:

- 1. APN username and password are optional. If no APN username and password are required, just input APN only;
- 2. APN defaulted as 'CMNET';
- 3. APN + username + password should not over 39 characters.

Example:

W000000,011,CMNET,Meiligao,6688

W000000,011,CMNET

7.6.3 Set IP and Port

Command: W******,012,IP,Port

Description: Set IP and Port for tracker for GPRS communication.

Note:

1. IP is your server's IP or the domain name.

2. Port: [1,65534]

Example:

W000000,012, 220.121.7.89,8500 W000000,012,www.meiligao.net,8500

7.6.4 Set DNS Server IP (optional)

Command: W******,009,DNS Server IP

Description: In case the domain name you set by the last command (W******,012,IP, Port) doesn't work, which means your server IP is not properly set. You can first use this command to set DNS Server IP (please check with your DNS server provider for the DNS Server IP) and then redo the command W******,012,IP, Port.

Example: W000000,009,220.23.4.90

7.6.5 Enable GPRS Tracking

Command: W*****,013,X

Description: Enable GPRS tracking function.

Note:



X=0, to turn off GPRS tracking (default);

X=1, to enable GPRS tracking via TCP

X=2, to enable GPRS tracking via UDP

Example: W000000,013,1

7.6.6 Set GPRS Interval

Command: W******,014,XXXXX

Description: Set time interval for sending GPRS packets.

Note:

XXXXX should be in five digits and in unit of 10 seconds.

XXXXX=00000, to turn off this function;

XXXXX=00001~65535, time interval for sending GPRS packet and in unit of 10 seconds.

In this example, the tracker will send every 600 seconds (10 minutes).

Example: W000000,014,00060

The tracker will send every 600 seconds (10 minutes).

For more information regarding GPRS tracking please refer to <GPRS Communication Protocol>

7.7 Track by GpsGate

The GT30i supports GpsGate Software.

Please contact us or GpsGate for more information of settings.

8. Authorization

Command: W*****,003,F,P,T1 or W*****,003,F,P,T1,T2 (optional)

Description: Authorize phone numbers for the buttons/inputs for receiving location reports or SMS alarms or phone calls

Note:

F=0, to turn off this function; (default)

F=1, only send SMS to the authorized phone number;

F=2, only call the authorized phone number;

F=3, both SMS and calling

P=1, set an authorized number for SOS button (Input 1)

P=2, set an authorized number for B button (Input 2)

P=3, set an authorized number for C button (Input 3)

T1: Preset phone number. Max.16 digits

If you need to set different numbers for receiving SMS and phone call, you can then use W******,003,F,P,T1,T2, In this case T1 is the phone number for receiving SMS and T2 for receiving phone call.

Example:

W000000,003,3,1,88888888

W000000,003,3,1,88888888,99999999



9. Call Function

You can use the earphone for conversation purpose.

9.1 Receiving Phone Call

Use your phone or mobile phone to call the tracker, the green LED will be on. Press SOS button to receive the incoming call or press Call B button to reject the call.

9.2 Making Phone Call

After you have authorized phone numbers for SOS/Call B/Call C button, you can press one of these buttons to make a call to the preset phone number.

Press Call B button to cancel a calling or to end a conversation.

9.3 Volume Adjustment

During a conversation, press SOS button to increase the volume or press Call C button to decrease the volume.

10. Speeding Alarm

Command: W*****,005,XX

Description: Turn on speeding alarm. When the tracker speeds higher than the preset value, it will send an SMS to the authorized phone number for SOS.

Note: XX is the preset value of speed and in 2 digits.

=00 , to turn off this function =[01, 20] (unit: 10Km/h) **Example**: W000000,005,08

When the tracker's speed is over 80km/h, an SMS alarm will be sent out.

11. Movement/Geo-fence

11.1 Movement Alarm

Command: W*****,006,X

Description: When the tracker moves out of a preset circle scope, it will send an SMS alarm to the authorized phone number for SOS.

Note:

1. X is the preset radii to the tracker's original place

=0, to turn off this function

=1, 30m	=2, 50m	=3, 100m	=4, 200m
=5, 300m	=6, 500m	=7, 1000m	=8, 2000m



2. Radii: [1, 4294967295] meter(s), suggest to be set above 100 meters;

3. GPRS command is 0x12 **Example**: W000000,006,1



When tracker moves out of this circle scope, it will send out an SMS alarm.

11.2 Geo-fence Alarm

Command: W*****,302,X

Description: Turns on Geo-fencing alarm. When the tracker moves in/out the preset scope, it will send an SMS alarm to the authorized phone number for SOS.

Note:

- 1. X is the parameters which includes: latitude, longitude, radii, in, out;
- 2. Latitude and lonitudes should be in ASCII format as follows:

Latitude is ddd.dddddd, '0' is needed to be stuffed if no value available. '-' should be added for south. Longitude is dd.ddddd, '0' is needed to be stuffed if no value available. '-' should be added for west.

- 3. Radii: [1, 4294967295] meter(s), suggest to be set above 100 meters, if set above 8, it is corresponding radii;
- 4. If In and Out are 0, corresponding function is invalid, if are 1, valid;
- 5. Reply as Geo-Fence Alarm;
- 6. GPRS exiting command is 0x12, entering command is 0x13;
- 7. Send W*****, 302 to turn off Geo-fence function;

Example:

W000000,302,22.000000,-114.123456,3000,1,1

Remarks:

- 1. Only one alarm can be set in either In or Out;
- 2. Only one alarm can be set in either Movement Alarm or Geo-fence Alarm.

12. Track by Distance

Command: W*****,303,X

Description: Send this command to set distance interval

Note:

1. X= [1, 4294967295], suggest to be set above 300 meters

2. X=0, turn off

Example: W000000,303,1000



13. Set Sensitivity of Tremble Sensor

Command: W*****,035,XX

Description: Send this command to set sensitivity of tremble sensor

Note:

1. XX=[1,255], it will more sensitive if XX is more smaller

2. Default value is 30

Example: W000000,035,30

14. Listen-in (Voice Monitoring)

Command: W******,030,T

Description: Authorize a phone number to make a silence call to the tracker, the track answers the call automatically and allows the caller to listen to what happens around the tracker. There is no voice indication that the call is in progress

Note:

- 1. T is the telephone number for wiretapping and max. 16 digits
- 2. Calls from unauthorized number are treated as normal incoming calls and indicated by beeps.

Example:

W000000,030,88888888

15. Heartbeat

Command: W*****,015,data

Description: Set an interval for heartbeat.

Note:

data is the interval in unit of minute data=0, to turn off this function; data=1~65535, set interval for heartbeat.

Example:

W000000,015,10

In this example, the tracker will send heartbeat every 10 minutes.

16. Track Log

16.1 Log by Interval

Command: W*****,031,X

Description: Set time interval for logging GPS information. The information is stored within the device memory. When the memory gets full, the newest record will be overwritten on top of the oldest (FIFO - First In, First Out). In that case, only the newest information is stored.

Note:

1. X=0, to turn off this function. X=[1, 65535] to set interval in the unit of SECOND.



2. The logged message is in GPRMC format and includes:

Date and time

Longitude

Latitude

Speed

Direction

- 3. All data, stored within the memory, may be exported to the PC using the USB connector. For this matter the "GPSLog" program has to be used (please refer to < GPSLog User Guide> and < GPRS Communication Protocol> for more information).
- 4. The device has 4MB internal memory space for storing the track log and is able to store up to 180,000 records within the memory.

Example:

W000000,031,60

The tracker will store GPS data every 60 seconds.

16.2 Auto Log when no GPRS

When there is no GPRS connection, the tracker can store all GPS information triggered by preset tracking interval, alarms, request, or button activation and send this information (FIFO - First In, First Out) to server by GPRS or preauthorized mobile phone by SMS when GPRS connection recovers.

The interval memory can store up to 1500 SMS and 4600 GPRS message.

16.3 Format Buffer

Command: W*****, 503

Description: if need latest data to upload, you can use this command to clear the data stored in the buffer.

Note: Deleted data can't recover any more.

Example: W000000,503

17. Power Down

Command: W******,026,XX

Description: Make the tracker into power down mode when it is inactive or immobile for a period of time. In Power Down states, GPS stops working and GSM enters sleep and stop sending out message until it is activated by message, incoming calls or movement or triggered by three buttons.

Note:

XX=00, to turn off this function.

XX=01~99, to turn on Power Down after a specified period of being inactive (or stationary). It is in unit of minute.

Example: W000000,026,10

The tracker will enter power down mode after it is inactive (or stationary) for 10 minutes.



18. Get IMEI

Command: W*****,601

Description: Get IMEI of the tracker. IMEI is 15 digits

Example: W000000,601

19. Initialization

Command: W******,990,099###

Description: This is to make all settings (except for the password) back to factory default.

Note: Send SMS "Default?" to the device, and then send (within 120 seconds) this SMS command to the

tracker.

is the ending character and is required in the text message.

Example: W000000,990,099###

20. Password Initialization

Command: W888888,999,666

Description: This is to make the password back to factory default in case you forget your password.

Note: Send SMS "Default?" to the device, and then send (within 120 seconds) this SMS command to the tracker to make the password back to factory default (000000).

If you had set authorized telephone number, when password preset successfully, the telephone will get

W88888,999,666

Example: W888888,999,666

For more details regarding SMS commands, please go to Annex 1 Command List.

21. Parameter Editor

The tracker can be configured by computer using the Parameter Editor.



GPS Tracker Parameter Editor V1.39

Please refer to <GPS Tracker Parameter Editor> for more information.



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Annex 1. SMS Command List

Note: ***** is user's password and the default password is 000000. The tracker will only accept commands from a user with the correct password. Commands with wrong password will be ignored.

Description	SMS Command	Example
Track on Demand	W*****,000	W000000,000

Remarks: To get the current location of the tracker, send this SMS or make a telephone call directly to the tracker and it will report its longitude and latitude by SMS with format as follows:-

Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed = 2.6854Km/h, 2008-12-24,01:50

Track on Demand	W*****,100	W000000,100
-Google Link		

Remarks: Send this command to the tracker and then you receive an SMS with an http link. Click on the link then the location can be shown directly on Google Map on your mobile phone. For example:

 $\underline{\text{http://maps.google.com/maps?f=q\&hl=en\&q=22.540103,114.082329\&ie=UTF8\&z=16\&iwloc=addr\&om=1.082329\&iw=16$

(Note: Only smart phones and PDA support this function.)

Change Password W*****,001,##### W000000,001,123456	
---	--

Remarks: To change user's password. ##### is the new password. Password should be 6 digits.

Track by Interval	W*****,002,XXX	W000000,002,030
-------------------	----------------	-----------------

Remarks: To set interval for automatic timed report.

XXX is the interval in minute. If XXX=000 to turn off tracking by time.

In this example, the tracker will send location data back to your mobile phone every 30 minutes.

Authorization	W*****,003,F,P,T1	W000000,003,3,1,88888888
	(W*****,003,F,P,T1,T2)	W000000,003,3,1,88888888,99999999

Remarks: To authorize phone numbers for Inputs for receiving location reports or SMS alarms or phone calls.

F=0, to turn off this function; (default)

F=1, only sends SMS to the authorized phone number;



F=2, only calls the authorized phone number;

F=3, both SMS and calling

P=1, set an authorized number for Input 1

P=2, set an authorized number for Input 2

T1: Preset phone number. Max.16 digits

If you need to set different numbers for receiving SMS and phone call, you can then use W*****,003,F,P,T1,T2, In this case

T1 is the phone number for receiving SMS and T2 for receiving phone call.

Note: VT310 doesn't support two-way conversation. Calling only gives ring and reminder to the authorized phone

Speeding Alarm

W*****,005,XX

W000000,005,08

Remarks: When the tracker speeds higher than the pre-set value, it will send an SMS to the authorized phone number for SOS. XX is the preset value of speed and in 2 digits.

=00, to turn off this function

=[01, 20] (unit: 10Km/h)

In this example, when the tracker's speed is over 80km/h, an SMS alarm will be sent out.

Movement Alarm

W*****,006,X

W000000,006,6

Remarks: When the tracker moves out of a preset circle scope, it will send an SMS alarm to the authorized phone number for SOS.

X is the preset radii to the tracker's original place

=0, to turn off this function

=1, 30m	=2, 50m	=3, 100m	=4, 200m
=5, 300m	=6, 500m	=7, 1000m	=8, 2000m

Geo-fence Alarm

W*****,302,X

W000000,302,22.000000,-114.123456,3000,1,1

Remarks: Turns on Geo-fencing alarm. When the tracker moves in/out the preset scope, it will send an SMS alarm to the authorized phone number for SOS.

Note:

- 1. X is the parameters which includes: latitude, longitude, radii, in, out;
- 2. Latitude and lonitudes should be in ASCII format as follows:

Latitude is ddd.dddddd, '0' is needed to be stuffed if no value available. '-' should be added for south.

Longitude is dd.dddddd, '0' is needed to be stuffed if no value available. '-' should be added for west.

- 3. Radii: [1, 4294967295] meter(s), suggest to be set above 100 meters, if set above 8, it is corresponding radii;
- 4. If In and Out are 0, corresponding function is invalid, if are 1, valid;
- 5. Reply as Geo-Fence Alarm;
- 6. GPRS exiting command is 0x12, entering command is 0x13;
- 7. Send W*****, 302 to turn off Geo-fence function;

Track by Distance

W*****,303,X

W000000,303,1000

Remarks: Send this command to set distance.

Note:

1. X= [1, 4294967295], suggest to be set above 300 meters



2	V_0	turn	~ff
<i>/</i> .	A=U.		OHI

Extended Functions	W*****,008,ABCDEFGHIJ##	W000000,008,1011100011###
	#	

Remarks:

- **A=0**, turn off the function of sending SMS location report after a phone call is made to the tracker.
- **A=1**, turn on the function of sending SMS locaiton report after a phone call is made to the tracker.
- **B=0**, location data of NMEA 0183 GPRMC will be interpreted into normal text for easy reading.

For example, Latitude = 22 32 36.63N Longitude = 114 04 57.37E, Speed = 2.6854Km/h, 2008-12-24,01:50

B=1, location data complies with NMEA 0183 GPRMC protocol.

For example, \$GPRMC,161509.000,A,2232.5485,N,11404.6887,E,0.3,153.7,290709,,*03

- **C=0**, turn off the function to automatically hang up an incoming call.
- **C=1**, turn on the function to automatically hang up an incoming call after 4 5 rings.
- **D=0**, turn off the function of sending an SMS when the tracker is turned on.
- **D=1**, turn on the function of sending an SMS to the authorized phone number for SOS when the tracker is turned on.
- E, defaulted as 1 (the tracker shuts down automatically when the power voltage is lower than 3V).
- **F=0**, turn off the SMS alarm when the tracker enters GPS blind area.
- **F=1**, turn on the SMS alarm when the tracker enters GPS blind area. SMS is to be sent to the authorized phone number for SOS.
- **G=0**, all LEDs work normally.
- **G=1**, all LEDs stop flashing when the tracker is working.
- H, reserved and defaulted as '0'
- I=0, turn off the function of sending SMS alarm when the extra power of the vehicle tracker is cut.
- **I=1**, turn on the function of sending an SMS alarm to the authorized phone number for SOS when the extra power of the vehicle tracker is cut.
- J, defaulted as 1
- ### is the ending character

(ABCDEFGHIJ defaulted as 1000100001)

Presetting by SMS for GPRS tracking (Ensure that your SIM card supports GPRS connection prior to setting)

Set Tracker's GPRS ID	W*****,010,ID	W000000,010,00001

Remarks: to set a digital GPRS ID for the tracker.

GPRS ID must not over 14 digits.

Set APN	W*****,011,APN,Username,	W000000,011,CMNET,Meiligao,6688
	Password	W000000,011,CMNET

Remarks: If no APN username and password are required, just input APN only;

APN defaulted as 'CMNET';

APN + username + password should not over 39 characters.

Set IP and Port	W*****,012,IP,Port	W000000,012, 220.121.7.89,8500
		W000000,012,www.meiligao.net,8500
_ , , ,		

Remarks: IP is your server's IP or the domain name. Port: [1,65534]



Set DNS Server IP

W*****,009,DNS Server IP

W000000,009,220.23.4.90

Remarks: In case the domain name you set by the last command (W******,012,IP, Port) doesn't work, which means your server IP is not properly set. You can first use this command to set DNS Server IP (please check with your DNS server provider for the DNS Server IP) and then redo the command W******,012,IP,Port.

Enable GPRS Tracking

W*****,013,X

W000000,013,1

Remarks:

X=0, to turn off GPRS tracking (default);

X=1, to enable GPRS tracking via TCP

X=2, to enable GPRS tracking via UDP

Set GPRS Interval

W*****,014,XXXXX

W000000,014,00060

Remarks: to set time interval for sending GPRS packets.

XXXXX should be in five digits and in unit of 10 seconds.

XXXXX=00000, to turn off this function;

XXXXX=00001~65535, time interval for sending GPRS packet and in unit of 10 seconds.

In this example, the tracker will send every 600 seconds (10 minutes).

Set Heartbeat Interval

W*****,015,data

W000000,015,10

Remarks: to set interval for heartbeat.

Data: in unit of minute

data=0, to turn off this function;

data=1~65535, set interval for heartbeat.

In this example, the tracker will send heartbeat every 10 minutes.

Set Sensitivity of Tremble

W*****,035,XX

W000000,035,30

Remarks: Send this command to set sensitivity of tremble sensor

Note:

1. XX=[1,255], it will more sensitive if XX is more smaller

2. Default value is 30

Example: W000000,035,30

Heading Change Report

W*****,036,degree

W000000,036,90

Remarks: when the heading direction of the tracker changes over the preset degree, a message with location data will be sent back to the server by GPRS.

degree=0, to turn off this function.

degree=[1,360], to set degree of direction change.

For more information regarding GPRS tracking please refer to <GPRS Communication Protocol>

Sleep Mode W******,021,X W000000,021,2

Remarks: this setting is for power saving.



X=0 turn off sleep mode X=1 Level I X=2 Level II X=3 Level III

Here is some explanation for the sleep mode.

GPS module will be closed for 64 seconds * X (X=1, 2, 3), if it gets continuous GPS fixed for 32 times or Non-GPS fixed for 128 times. After that, GPS module will periodically work and close

Power Down W*****,026,XX W000000,026,10

Remarks: to set power down mode when the tracker is inactive (stationary) for a period of time.

In Power Down mode, GPS stops working and GSM enters sleep and stop sending out message until it is activated by message, incoming calls, movement or input changes.

XX=00, to turn off this function.

XX=01~99, to turn on Power Down after a specified period of being inactive. It is in unit of minute.

In this example, the tracker will enter power down mode after it is inactive for 10 minutes.

Listen-in (Voice Monitoring) W******,030,T W000000,030,88888888

Remarks: T is the telephone number for wiretapping and max. 16 digits.

Set Log Interval W******,031,X W000000,031,60

Remarks: to set the interval for storing GPS data into tracker's flash memory.

(Note: this interval is not relevant to the interval of SMS/GPRS tracking)

X=0, to turn off this function.

X=[1, 65535] to set interval in second.

In this example of W000000,031,60, the tracker will store location data every 60 seconds.

Format Buffer W*****,503 W000000,503

Remarks: if need latest data to upload, you can use this command to clear the data stored in the buffer.

Note: Deleted data can't recover any more.

Time Zone W******,032,T W000000,032,480 W000000,032,-120

Remarks: Default time of the tracker is GMT, you can use this comment to correct it to your local time. This command is for SMS tracking only.

T=0, to turn off this function.

T=[-32768,32767] to set time difference in minute to GMT.

For those ahead of GMT, just input the time difference in minute directly. For example, GMT+8, W000000,032,480

'-'is required for those behind GMT. For example, W000000,032,-120.

Set SMS Header W******,033,P,Char W000000,033,1,help

Remarks: this command is to set initial characters for SOS message when SOS/IN1, Button B/IN2, Button C/IN3 is pressed.

P=1, SOS button/Input1 P=2, B button/Input2 P=3, C button/Input3

Char is the character in SOS message and max 32 characters and defaulted as:

1 SOS Alarm! 2 Cry For Help! 3 Call The Police!

Get Version No. and Serial No. W*****,600 W000000,600

Remarks: to get the version and serial number of tracker's firmware



		Every Step III Tracking	
Get IMEI	W*****,601	W000000,601	
Remarks: to get IMEI of the trace	Remarks: to get IMEI of the tracker		
Reboot GSM	W******,901###	W000000,901###	
Remarks: to reboot the GSM module of the tracker			
Reboot GPS	W*****,902###	W000000,902###	
Remarks: to reboot the GPS module of the tracker			
Initialization	W*****,990,099###	W000000,990,099###	
Remarks: Send SMS "Default?" t	to the device, and then send (with	nin 120 seconds) this SMS command to the tracker to make	
all settings (except for the passy	vord) back to factory default.		
### is the ending character.			
Password Initialization	W888888,999,666	W888888,999,666	
Remarks: In case you forget you	r password, Send SMS "Default?"	to the device, and then send (within 120 seconds) this \ensuremath{SMS}	
command to the tracker to make	e the password back to factory de	fault (00000).	

Annex 2. Troubleshooting

Problem: Unit will not turn on when pushing the power switch to On side	
Possible Cause:	Resolution:
Power switch was not pushed properly	Check and make sure the power button is pushed to On side.
Battery needs charging	Recharge battery for 3 hours
Problem: Unit will not reply with SMS	
Possible Cause:	Resolution:
Green LED is flashing (1 second on and 2 seconds off)	Make GT30i connected to GSM network.
GSM Network is slow	Some GSM networks slow down during peak time or when they have equipment problems.
Unit is sleeping or in power down mode	Cancel sleeping mode or power down
Wrong password in your SMS or wrong SMS format	Write correct password or SMS format
The SIM in GT30i has run out of credit	Replace or top up the SIM card
Problem: Green LED is Flashing (1 second o	n and 2 seconds off)
Possible Cause:	Resolution:
No GSM signal	Check with a mobile phone to see if there is a signal in the area or try to call the unit to see if you hear a ring tone.
No SIM card	Insert a working SIM card. Check in phone that the SIM can send SMS message.
SIM card has expired	Check in phone that the SIM can send SMS message. Replace SIM card if needed.



SIM has PIN code set	Remove PIN code by inserting SIM in you phone and deleting the code.
SIM is warped or damaged	Inspect SIM, clean the contacts. If re-inserting does not help try another to
	see if it will work.
Roaming not enabled	If you are in a different country your SIM account must have roaming
	enabled.
Battery is low	Recharge the unit and the GSM will start working.
Problem: Blue LED is Flashing (1 second on	and 2 seconds off) or the SMS received starts with 'Last'
Possible Cause:	Resolution:
Unit does not have clear view of the sky	Move the unit to a location where the sky is visible. Tall buildings, trees,
	heavy rain, can cause problems with the GPS reception.
Bad GPS reception	Place the front side of GT30i towards sky
Battery is low	Recharge the unit and the GPS will start working.
Problem: Unit Fails to Connect to Server via	GPRS
Possible Cause:	Resolution:
SIM card in GT30i does not support GPRS	Enable SIM card GPRS function.
function	
GPRS function of GT30i is turned off	Turn on GPRS function of GT30i.
Incorrect IP address or PORT	Get the right IP address and PORT and reset to GT30i.
GSM signal is weak	Move the unit to a location with good GSM reception.

Contacts

If you encounter any problems when using our products, and cannot solve them by yourself, please contact our technical support team by writing an E-Mail to info@meitrack.com. We will be pleased to help you.