TL-202 PERSONAL GPS TRACKER

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1. Introduction

This tracker is a personal remote location device with small size,build-in long standby time battery and easy to use.This tracker can be used as an emergency cellular phone and allows speed dialing 5 numbers for 2-way voice communication. This tracker sends alert and call the preset numbers for immediate assistance.The alerts include Date, Time, Coordinate, Speed and Map URL link. It will send the coordinate to the designated server by GPRS and then displaying the location by tracking software.

2. What's new?

2.1 **Smaller size:** As small as a car remote controller which can be linked to the key chain.

2.2 It has **ringing sound** when there is an incoming call in 2-way voice mode.

2.3 Longer battery life (standby time is **200hours**)

Position accurate will combine the **GPS IM and GSM base station IM**.

2.4 By pressing CALL1 (Blue LED will flash) to turn up the volume and pressing CALL2 (Yellow LED will flash) to **turn down the volume**.

2.5 It can **make a call to any phone number** by sending a signal command.

2.6 **Get position by 3 ways:** Search the coordinate in Google map, click the URL and see the position in cell phone directly and view the position and history in tracking software.

3. Main Features

- Locating and tracking via SMS or GPRS
- Support voice call
- Listen in function
- SOS alert
- Geo-fence alarm
- Speeding alert
- Low battery alert
- Combine the GPS IM and GSM base station IM(customer should offer the base station data)
- Configuration with PC directly. **(not standard feature, optional)**
- Position transmit

4. Applications

- Protect the child/elderly/disabled/pet etc.
- Personnel management
- Track the vehicle/ equipment etc.
- Provide peace-of-mind for businessmen
- Tracking system for Express/Carriers/Logistics

5. Specification

Content	Specs.
Dimension	65mm x 40mm x 18mm
Weight	56.4g
Network	GSM/GPRS
Band	850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5m
Cold start	42 sec.
Warm starts	38 sec.
Hot start	1 sec.
Battery	Chargeable 3.7V 1700mA/h
Operation temperature	-20° C to +55° C
Humidity	5%--95% non-condensing

6. Get the position by calling the tracker

You can use the authorized numbers to call the tracker SIM number for at least 2 seconds, then hang up the call before the tracker hangs up or receives it. The tracker will reply a google position URL SMS. You can visit this URL to see the position. The tracker will not reply the SMS If you did not hang up the call before the tracker hangs up or receives it.

Note: The tracker will reply to any incoming call number if you have not set the authorized numbers yet. Once you have set the authorized number, the tracker will reply SMS to the authorized numbers only.

7. Send once position

You can get a google position URL SMS by pressing the power button(around one second) till the Green LED blinking fast.

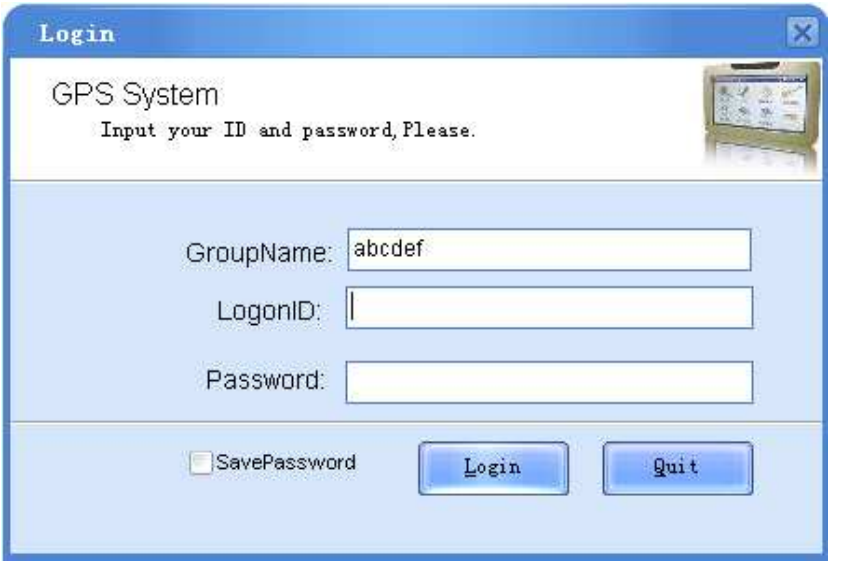
Note: This link SMS will just be sent to the A1,A2 and A3 authorized numbers.

8. Real time tracking on website or PC software

The device can be tracked on our tracking platform, please contact us for more information.

Tracking website

PC software

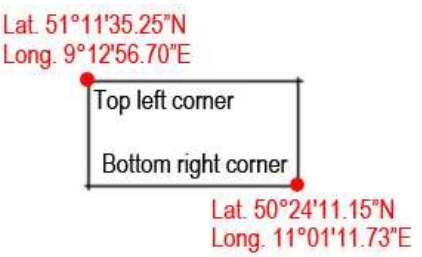


Note: alternative from Tracking website and PC software

9. SMS commands list

➢ name	➢ Sentence content	➢ Description
➢ Set authorized numbers	➢ **123456A1,phone number** ➢ **123456A2,phone number** ➢ **123456A3,phone number** ➢ **123456A4,phone number** ➢ **123456A5,phone number** (**'A' and the comma must be English**)	➢ A1,A2,A3 is for setting the 3 SOS numbers. ➢ A4,A5 is for the call1 and call2 Phone number must include the country code like +8613812345678. +86 is the country code of China. Please do not use '**00**' instead of '**+**'
➢ Sample	➢ 123456A1,+861381234678	➢ Set +8613812345678 as the first SOS number (A1).
➢ Delete authorized numbers	➢ **123456A1,D** ➢ **123456A2,D** ➢ **123456A3,D** ➢ **123456A4,D** ➢ **123456A5,D**	➢ A1,A2,A3 is for deleting the 3 SOS numbers. ➢ A4,A5 is for deleting the call1 and call2
➢ Switch to the Talking mode	➢ **123456U0** **Calling in 2-way voice mode**	➢ The tracker will pick up the incoming call then enter to the 2-way voice mode.
➢ Switch to the Listen-in mode	➢ **123456U1** (**Default Mode**) **Calling in listen-in mode**	➢ The tracker will pick up the incoming call then the call center can hear the sound around the tracker.
➢ Switch SOS Call to Listen-in mode	➢ **123456U2** **SOS Call in listen-in mode**	➢ When you make the SOS call, just the call receiver can hear the sound around the tracker

➢ Switch SOS Call to the Talking mode	➢ **123456U3** (**Default Mode**) **SOS Call in 2-way voice mode**	➢ The mode is 2-way voice communication after hitting the SOS
➢ Calling out automatically	➢ **123456V31,phone number Calling phone number in listen-in mode**	➢ Tracker will call this number auto in listen-in mode
➢ Calling out automatically	➢ **123456V30,phone number Calling phone number in 2-way voice mode**	➢ Tracker will call this number auto in two-way voice mode
➢ Get position by SMS	➢ **123456F**	➢ It will reply the latitude and longitude as well as a link to the cell phone
➢ Set continuous tracking	➢ **123456Mx,yyyz**	➢ x=1 means on, x=0 means off ➢ yyy means time interval. If z=S/M it should be <=255.if z=H, it should be<=090. It must be three numbers,030Smeans 30S ➢ Z means time unit, z=S means second, z=M means minute, z=H means hour
➢ Sample of Setting continuous tracking	➢ **123456M1,030S**	The tracker will reply the position according to the time interval you set (30 seconds). If the tracker has connected to server it will send to the server by GPRS or it will be sent to the cell phone by SMS
➢ Set the speeding alarm	➢ **123456Jx,yyy**	➢ x=1 means on, x=0 means off ➢ yyy means the alarm speed, it should

		be<250 and must three digital, e.g. 080=80km/h.
➢ Sample	➢ **123456J1,080**	➢ The tracker will send a speeding alarm to server if it is over the 80km/h
➢ Set GEO fence	**123456Ix,y,z, aabbccddefffgghhiijkkllmmn nepppqqrrssj** 	➢ x=NO. of the GEO-fence(1-5),5 GEO fence can be set ➢ y=1 means on, y=0 means off ➢ z=0 means go in, z=1 means go out ➢ e=N means the north latitude, e=S means the south latitude ➢ j=E means the east longitude, j=W means the west longitude ➢ aa,bb,cc,dd,kk,ll,mm,nn,qq,rr,ss must be 2 numbers.03 means 3. ➢ fff,ppp must be 3 numbers.011 means 11
➢ Example of setting GEO fence	123456I1,1,1,511135 25N009125670E 50241115N011011173E 	➢ The tracker will send an alarm data if it is in/out the district you set.
➢ Set the time zone	➢ **123456Lxyy**	➢ x=+ means east x=- means west ➢ yy means the time zone， must be 2 numbers

➢ Sample	➢ **123456L+08**	➢ Set the east 8 zone
➢ Set the low battery alarm	➢ **123456Nx,yy**	➢ x=1 means on,x=0 means off yy means battery lower then yy% then send the alarm. It must be<45.it must be 2 numbers.
➢ Sample of setting the low battery alarm	➢ **123456N1,40**	➢ The tracker will send a low battery alarm if the battery is lower then 40%
➢ Modify the password	➢ **123456H456789**	➢ 456789 is the new password, new password must be 6 numbers
➢ Set the APN,IP and port	➢ **123456C$$$$,IP:Port**	➢ $$$$ is the APN, you can get the APN from your local GSM provider.
➢ Sample of setting the APN	➢ **123456CCMNET, 119.122.101.91:9289**	➢ CMNET is the APN of China mobile.
➢ Set the username and password for APN	➢ **123456O&&&&, @@@@**	➢ &&&& is the username and @@@@ is the password. ➢ If the SIM card doesn't need username and password for the APN, pls ignore this command
➢ Sample	➢ **123456Ointernet,internet123**	➢ The user name is internet and the password is internet123.
➢ Open ➢ GPRS	➢ **123456D**	➢ The tracker will start to connect the server by GPRS. It will send back an SMS to confirm after it has connected the

		server successfully.
➢ Close GPRS	➢ **123456E**	➢ The tracker will close the connection with the server.
➢ Get the IMEI number	➢ **123456B**	➢ It will reply the IMEI number of the tracker.
➢ Check the settting	➢ **123456G**	➢ Check all parametres set in tracker
➢ Reset	➢ **RESET!**	➢ Reset the tracker and no confirm SMS

10. Cautions

Please comply with the instructions to extend the unit life:

1. Keep the unit dry. Any liquid, i.e. rain, may destroy or damage the inside circuitry.
2. Don't use & store the unit in dusty places.
3. Don't put the unit in overheated or overcooled places.
4. Handle carefully. Don't vibrate or shake it violently.
5. Clear the unit with a piece of dry cloth. Don't clean in chemicals, detergent.
6. Don't paint the unit, this may cause some foreign materials left in between the parts.
7. Don't disassemble or refit the unit.
8. Please use the battery and charger provided by manufacturer. Using other batteries and chargers will cause unwanted situation.
9. Don't dismount the antenna randomly, or use other antennas. This may interfere the transmission, and increase the radiation as well.