

# **TZ-GT02 Personal Tracker**

## **User Guide**

Version 2.0



# Tracker GT02 User Manual

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## 1. Power Supply and Charging of Tracker

### 1.1. Power Supply

- The tracker is operated by its built-in and irreplaceable lithium polymer battery. The fully charged battery can supply power for the tracker for about 70 hours (in stand by mode).
- 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.

### 1.2 Use Power Adapter for Charging

- For the first time and later usage, you should use the power adapter to charge the tracker for at least 3 hours.
- Connect the DC end of the power adapter to the power connector on the right of the tracker and connect the other end of the power adapter to the socket to charge the tracker.
- During the charging of the tracker, the **POWER** indicator light turns red. Never unplug the adapter during charging. Wait until the battery is fully charged. When the battery is fully charged, the **POWER** indicator light turns off. When the battery is low or used up, charge it as soon as possible.

## 2. Fast Startup

### 2.1. Startup Operation

- Insert a valid GSM SIM card into the “SIM Card” slot on the right side of the tracker (Note: Use the given tool to push the SIM card into the slot and the SIM card will be locked automatically.)
- Place the tracker in an open area and push **POWER** key to switch on the tracker.
- The tracker starts to work within 10 sec.~ 20sec. and to receive the GSM signals. When the tracker has GSM signals, the GSM indicator light will flash every second. If there is no GSM network, the GSM indicator light is off.
- While GSM is connecting with the network, the GPS starts searching for satellite signals. The GPS indicator light flashes every 2 seconds. When the GPS functions successfully, the GPS indicator light is on.
- When both GSM and GPS of the tracker work, you can use your mobile phone to dial to the number of the tracker to locate it.

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### 2.2. Authorized User/s Setting

After you purchase the tracker, you should set the authorized user/s immediately.

#### Method to set authorized user/s

- a. Note that only four authorized users are allowed to set into the tracker. The codes of the authorized users are **SM1, SM2, SM3 and SM4** and they can be used according to your own choose. This means the first authorized user can be SM1 or SM2 or SM3 or SM4.
- b. The first user uses his mobile phone to send a SMS command to the tracker. He sends a SMS "**SM1:xxxxxxxx**," to the tracker. For example, if the mobile phone number is 123 456 789, the SMS will be: "**SM1:123456789**,". When the setup completes, the tracker will reply in a SMS "**Set OK!**" to the user 's mobile phone, otherwise, it will reply a SMS "**Set Fail!**". Now he is the first authorized user of the tracker.
- c. *Only the first authorized user* can add the second authorized user by sending a SMS command to the tracker. For example, if the mobile phone number of the 2<sup>nd</sup> authorized user is 444 555 666, then the SMS is "**SM2:444555666**," to the tracker. The first and the second authorized users are now allowed to add the other authorized users. Repeat the same SMS command to set up the other authorized users.
- d. If a non-authorized user try to add an authorized user, the tracker will send a SMS "**You are not master!**".

#### Method to delete the Authorized Users

- a. All four authorized users are allowed to delete the users of the tracker. Send a SMS "**User Code:;**" to the tracker. For example, if you want to delete authorized user SM2, then send a SMS "**SM2:;**" to the tracker. When the deletion completes, the tracker will reply a SMS "**Set OK!**", otherwise, it will send a SMS "**Set Fail!**".
- b. If a non-authorized user try to delete an authorized user, the tracker will send a SMS "**You are not master!**".

**【Hints】** Make sure that the input of the mobile phone number are correct and the characters of the SMS command must be capitalized.

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### 2.3 Time zone setting

- The ex-factory time zone is Greenwich “**ST+00**,”
- To set the correct time zone, send a SMS command “**ST+,\*\***” or “**ST-,\*\***” from the user’s mobile phone to the tracker. For example, Beijing, China is “ST+08”, Pacific Ocean: “ST-08”.
- When the time zone setting completes, the tracker will send a SMS “**Set OK!**” to your mobile phone; otherwise, it will reply a SMS “**Set Fail!**”.

### 3. Usage

- When the tracker is switched on, it will send a SMS “**Power ON!**” to all authorized users.
- When the battery is low, the tracker will send a SMS “**Warning: low battery! Please charge!**” to all authorized users.

#### 3.1 Locate the tracker

- The authorized user calls the tracker. It hangs off automatically and send out a SMS with position and time to his mobile phone. For example:-

SMS content:     Lat:22.654878  
                  Long:114.049638  
                  GPS: 03  
                  GSM: 22  
                  2006-08-16  
                  17:17:16

**【Hints】** If a non-authorized dial to the tracker, the tracker will not respond to it.

- If the tracker cannot receive any GPS signal, the tracker will send a SMS with the last location information. For example:-

SMS content:     Weak Signal, last located:  
                  Lat:22.654878  
                  Long:114.049638  
                  GPS: 03  
                  GSM: 22  
                  Batt: 50%  
                  2006-08-16  
                  17:17:16

- To view the location of the tracker, the user can input the geographical information in the website <http://earth.google.com/>

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### 3.2 Tracker reply in 30 or 60 seconds

- In case of emergency, the authorized user can request the tracker to send him a SMS with location either every 30 or 60 seconds. For 30 seconds send a SMS “**LL30,**”; for 60 seconds send “**LL60,**” to the tracker using his mobile phone. Once the setup completes, the tracker will send automatically a SMS every 30s, or 60s.

For example:-

SMS content: SMS NO: \*\*\* (\*\*\*)means the no. of SMS e.g. 001)

Lat: 22.654878

Long: 114.049638

GPS:03

GSM:-67

Batt: 50%

2006-08-16

17:17:16

- To cancel this function, send a SMS “**LC,**” to the tracker through his mobile phone. When the deletion completes, the tracker will send a SMS “**Set OK!**”; otherwise, it will reply a SMS “**Set Fail!**”.

### 3.3 SOS Button

- The red button of the tracker is a **SOS** key. If the button is being pressed, the tracker will send out a SMS “**Help!**” with the geographical position to all authorized users.

### 3.4 Reset

- In case the tracker does not respond, the authorized user can send a SMS command “**RESET**” to the tracker in order to restart it.
- If a non-authorized person tries to use this function, the tracker will reply in SMS with “**You are not master!**”.

### 3.5 Warning function setting

- The authorized user can set a “safety zone” for his object. The minimum distance is 20 meters and the maximum distance is 5 kilometers. If the object moves outside this designated safety zone, the tracker will send a warning to the user.
- Send a SMS command “**SA\*\*,**” via mobile phone to the tracker to set the distance and start the auto warning function. For example, if the user want to set a distance of 500 meters, the SMS command should be “**SA500,**”
- When the setting completes, the tracker will reply in SMS with “**Set OK!**”,

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otherwise, it will reply in SMS with “**Set Fail!**”.

- If a non-authorized person tries to use this function, the tracker will reply in SMS with “**You are not master!**”.

**【Hints】** The default setting of the distance is empty.

Note:

1. In order to receive the GPS signal, the tracker should be used in open sky.
2. The sending and receiving of SMS normally takes 1 – 3 minutes, but this depends on your local GSM Network.

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### 4.0 Specification

•	Tri-Band GSM/GPRS module (GSM/GPRS 900/1800/1900MHz)
•	Equipped with 20 parallel channels GPS receiver (Sirfl III is optional)
•	Emergency Alert: SOS Button
•	Acquisition time: <ul style="list-style-type: none"><li>• Hot Typically &lt; 6sec Time To First Fix (TTFF)</li><li>• Warm Typically &lt; 35sec TTFF</li><li>• Cold Typically &lt; 45sec TTFF</li></ul>
•	Positioning Accuracy : Less than 15 meters
•	Power Supply : <ul style="list-style-type: none"><li>• Standard: 1200MAH Li-Ion battery</li></ul>
•	Internal GSM/GPRS antenna
•	Internal active GPS antenna
•	Operation time: <ul style="list-style-type: none"><li>• With Battery alone: 70 hrs after fully charged; in standby mode</li></ul>
•	Device Size: 44 x 63 x 24.5 mm
•	Weight: 85g
•	Operating Temperature: -30°C to + 70°C
•	Storage Temperature: -40°C to + 85°C
•	Relative Humidity: 5% to 95%, non-condensing