

# TracUSA™ MODEL TL201 PERSONAL GPS TRACKING USER MANUAL



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## 1. Introduction

Working Based on existing CDMA/GSM /GPRS(cellular phone system) network and GPS satellites, this tracker is a small and powerful tracking device that is developed for personal, vehicle and pet protection. In addition to transmitting the longitude and latitude coordinate to your cell phone by SMS, The TL201 will also transmit the longitude and latitude coordinate to the designated server by GPRS. This allows users to track the TL201 using the Google map function of your cell phone and the TracUSA PC tracking software website.

The TL201, when any of the three SOS buttons are depressed for 3-5 seconds, will





Amazing tracking unit

## 2. What's new?

- Mini size: Small enough to be attached to the key chain.
- Excellent design: Especially design for personal use, especially tracking children.
- Phone call function: It can make a phone call by pressing the button.
- Get position by 3 ways: SMS location report using cell phone, server based tracking software (provided by TracUSA) and SMS link to Google Maps via smart phone.

## 3. Main Features

- ◆ Locating and tracking via SMS(text messaging) or GPRS(internet connection)
- ◆ Support voice call in SOS mode  
The TL201 is not a phone. When in SOS mode, it will call a SOS phone number allowing communication, but the TL201 does not have a key pad giving it the ability to call any phone number it wishes. This unit is NOT a cell phone.
- ◆ Listen in function
- ◆ SOS alert
- ◆ Geo-fence alarm
- ◆ Speeding alert
- ◆ Low battery alert

## 4. Applications

- ◆ Protect the child/elderly/disabled/pet etc.
- ◆ Personnel management
- ◆ Track the vehicle/ equipment etc.
- ◆ Provide peace-of-mind for businessmen

## 5. Specification

Content	Specs.
Dimension	70.7mm x 42.9mm x 20.1mm
Weight	40g
Network	CDMA/GSM/GPRS

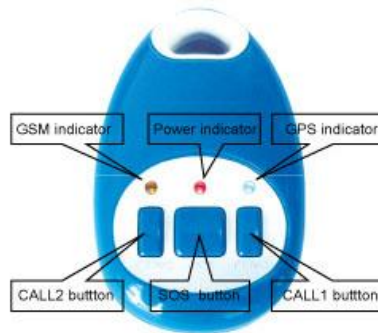
Band	700/800Mhz 850/900/1800/1900Mhz
GPS chip	SIRF3 chip
GPS sensitivity	-159dBm
GPS accuracy	5-20m
Cold start	42 sec.
Warm starts	38 sec.
Hot start	1 sec.
Battery	Chargeable 3.7V 870mAh battery
Operation temperature	-20°C to +55°C
Humidity	5%--95% non-condensing

## 6. Start up:






Fully charge the battery to capacity in 8 -12 hours (overnight) for the first use using the supplied USB/microUSB cable and 120VAC adapter. The USB end of the charging cable should never be connected to a computer while connected to the model TL201. This cable is strictly a charging cable for the TL201's internal battery. **Connecting the USB end of the charging cable to a computer while connected to the TL201 will void the warranty.** After the first use, the battery can be charged fully in 2-3 hours. In order to protect the device, use the original charger and battery, NEVER use an un-authorized charger. This **WILL** damage the unit and **VOID** the warranty. Contact TracUSA if original charger is lost or malfunctions. A fully charged battery will last 24-28 hours. When charging, the red light will come on, once charged...the red light will go off.



**Insert the SIM card into the tracker like this.**



Press the on/off button for 2-5 seconds until the LED lights operate, then unit will be turned on. Three LEDs will be bright at the same time during the tracker initialization. In 10 to 30seconds, the unit will begin to work and indicators will blink as the following:

Three LED	Bright at the same time	The device is starting
Orange	Blink like 	Work in GSM mode
Orange	Blink like 	Connecting GPRS
Orange	Blink like 	connected to GPRS
Red LED (power)	Blink like 	Power on
Blue LED (GPS)	Blink like 	Receiving GPS signal

- Initial GPS sync will work best outside of buildings. If impossible, once the unit has fully sync'd (blue light is blinking periodically) grab the TL201 and wave in a figure eight motion for 5-10 seconds. This is a similar command as seen with many smart phones with GPS location services. The figure eight wave will ensure a correct GPS antenna sync. This is very important and is suggested for each start up, only after all 3 lights have begun blinking periodically, when start up is inside a building.

## 7. Get the position by calling the tracker

You can use a cell phone to call the SIM number (provided by TracUSA with delivery instructions) associated with the tracker for 3 seconds, then hang up the call before the tracker hangs up or answers. The tracker will reply a position SMS (text message) with latitude and longitude in it as a Google Earth link. The text message will be highlighted in green or blue, double click and your smart phones Google map will open to the trackers position. The tracker will not send a SMS (text message) location if you do not hang up the call before the tracker hangs up or answers your call. The TL201, in many ways is just like a mini cell phone.

TracUSA, or its authorized reseller, will program the phone numbers authorized to request location reports from the tracker. This will be the information you have provided TracUSA at purchase. Once TracUSA has set the authorized numbers, the tracker will reply position SMS to the authorized cell phone numbers only. Suggested numbers include Mothers, Fathers and concerned/loved ones cellular phone numbers. These numbers must be chosen carefully, they are the numbers that will get the emergency SOS alert.



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**THE FOLLOWING INSTRUCTIONS ARE INFORMATIONAL ONLY, THESE SETTINGS WILL BE PRE-SET BY YOUR TracUSA REPRESENTATIVE AT TIME OF PURCHASE:**

**8. Set the authorized number.**

Send SMS "**123456A1, phone number**" to set the first SOS number.

Send SMS "**123456A2, phone number**" to set the second SOS number.

Send SMS "**123456A3, phone number**" to set the third SOS number.

Send SMS "**123456A4, phone number**" to set the CALL1 number.

Send SMS "**123456A5, phone number**" to set the CALL2 number.

Note: 123456 is the default password. A must be English in capital and make sure there is no space in the command. Phone number must include the country code

E.g. send SMS "**123456A1,+8613812345678**" to set +8613812345678 as the first SOS number. +86 is the country code of China. Please do not use 00 instead of +.

All five authorized numbers are not required, but at least one number will be programmed at time of purchase by your TracUSA representative. The device accepts the SMS commands from the authorized numbers only.

**9. Delete authorized number.**

Send SMS "**123456A1,D**" to delete the first SOS number.

Send SMS "**123456A2,D**" to delete the second SOS number.

Send SMS "**123456A3,D**" to delete the third SOS number.

Send SMS "**123456A4,D**" to delete the CALL1 number.

Send SMS "**123456A5,D**" to delete the CALL2 number.

E.g. send "**123456A1,D**" to delete the first SOS number.

**10. Get a single GPS location position by sending SMS (text message) command.**

Send SMS "**123456F**" to the device's cellular phone number (provided at purchase from your TracUSA representative) and it will reply its position by SMS. Only the authorized number can get the reply.

Note: F must be English in capital.

E.g. send "**123456F**" to the unit. It will reply its position.

**11. Continuous tracking function**

Send SMS "**123456M0/M1,xxxS/M/H**" to the unit, the tracker will reply the position message according to the time interval. If the device does not connect to the server, the message will

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reply to A1 number or it will reply to server.

Note: M must be English In capital.

M0 means turn off, M1 means turn on

xxx means time interval and must be three numbers,030S means 30 seconds

S means second, M means minute, H means hour

H should be ≤90, S,M should be <255

E.g. send "123456M1,030S" to the tracker means every 30 seconds send back a position coordinate to the A1 number. Send "123456M0,030S" to the tracker means stop the continuous tracking.

## 12. SOS function

**USER Presses ANY of the 3 black buttons and hold for 3-5 seconds. Nothing else is needed, this starts the powerful tracking and emergency alert functions of the TL201.**

It will send "help me! + GPS info" to A1, A2, A3 authorized numbers if the SOS button is pressed for 3 seconds. After that, it will dial the 3 authorized numbers (A1, A2, A3). The first preset number will take priority over the second one and the third one. If the tracker fails to connect to the first number, it will switch to the second one, In the event the second number fail's to be connected too, the system will connect to the third number, This will go on and on until one of the telephone number's pick up, then two way communication starts. Once communication is established, the receiving phone can silently listen in to the surroundings of the TL201. The TL201 comes installed with a speaker and microphone, so after depressing the SOS buttons, besides sending the GPS location SMS (Text), the user can talk to one of the preset numbers, or the preset number can listen in to the surroundings. **The model TL201 is NOT a cell phone. It does not have a key pad that enables the TL201 user to call out. The only circumstance when voice communications is enabled is when the SOS button has been depressed. Then only the preset numbers can listen in and communicate.**

\*\*\*\*This device is never to be held near a users head, ear etc like a cell phone; the TL201 is not a cell phone.

## 13. Listen in function

The tracker will answer the call from the authorized numbers automatically. This allows the caller to listen in to the sounds around the tracker.

## 14. Speeding alert

Sent SMS "123456J0/J1,speed" to set the Speeding alert function.

Note: J must be English in capital.

J0 means turn off the over speed alert function; J1 means turn on the speeding alert function. speed should be <250 and must 3 numbers, e.g. 055= 55 MPH.

For example, send "123456J1,080" to tracker. When the object moves exceeds 55MPH, the unit will send SMS as "Over speed! +GPS info" to the A1,A2,A3 number's. Send "123456J0,080" to tracker will turn off the speeding alert function.

## 15. GEO-FENCE

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Geo-Fence is a system whereby the user can set a defined region, where if the device exceeds this region, a special SMS/Web Tracking System alert will be sent. This MUST be programmed by a qualified TracUSA representative. Contact your TracUSA representative if you desire this function added to your Model TL201.

#### 16. Low battery alert

Send SMS "**123456 N 0/N1),xx**" to set the low-battery alert.

Note: N must be English in capital, N0 means turn off the low-battery alert function; N1 means turn on the low-battery alert function. xx should be <45 and must be 2 numbers.

E.g. send "**123456N1,30**" to the tracker means when the battery is lower than 30%, it will send a alert to the authorized number. Send "**123456N0,30**" to the tracker means turn off the low battery alert function.

#### 17. Set the local time

Send SMS "**123456L,time zone**" to set the local time

Note: L must be English in capital, + in the time zone means east, - in the time zone means west. Time zone must be 2 numbers. So Central US time zone should be like this: -05

E.g. send "**123456L-05**" to set the time to the Central Time. This time settings are based from Greenwich Mean Time, being +00. Below is standard (non daylight savings time) US time one settings:

Eastern US    -04  
Central US    -05  
Western US   -06  
Pacific US    -07

- These settings will be pre set by your TracUSA representative before delivery of unit.

#### 18. Modify the password

Send SMS "**123456H\*\*\*\*\***" to change the password.

Note: \*\*\*\*\* is the New password. H must be English in capital, send it to tracker to modify the password. (Default password: 123456)

E.g. send "**123456H456789**" means change the password 123456 to 456789

The password won't be erased by changing SIM card.

Be sure keep the password in mind, otherwise you have to update the software to restore the original setting in case of losing the password. Call TracUSA customer service if you forget the password and need software update.

The password must be 6 numbers- the tracker will not recognize fewer numbered password.

#### 19. GPRS setting

In order to use GPRS (internet connection to web based Tracking software-TracUSA will provide address and login information at new user account set up.) function, the user needs to set IP, Port and APN (access point name) by sending SMS commands. Make sure that your SIM card that in the tracker supports the GPRS function. TracUSA will program these settings



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before delivery to customer. This is for informational use only. DO NOT try and reset these settings, the settings provided by TracUSA are the only setting's that will work with the web based tracking software.

Send SMS "**123456C\$\$\$**,**IP:Port**" to set the APN, IP and port.

Note: C must be English in Capital. Please get APN from your local GSM operators and pay attention to the lower case or upper case of those letters.

E.g. send SMS "**123456C**internet2.voicestream.com,  
**119.122.101.91:7289**".internet2.voicestream.com is the APN for T Mobile and is provided as an example only, TracUSA will set the APN depending on which provider TracUSA supplies..

Send SMS "**123456O**&&&&, @ @ @ @" to set the username and password for GPRS.

Note:&&&& is the username and @ @ @ @ is the password. O must be English in capital. This setting depends on different providers. If the provider doesn't need username and password for the GPRS, you do not need to send this command.

E.g. send SMS "**123456O**wap, wap". The username will be wap and the password will be wap.

Send SMS "**123456D**" to enable GPRS

Note: D must be English in capital.

E.g. send SMS "**123456D**"

Send SMS "**123456E**" to disable GPRS

Note: E must be English in capital.

E.g. send SMS "**123456E**"

Send SMS "**123456B**" to get the IMEI number of the unit.

Note: B must be English in capital.

E.g. send SMS "**123456B**"

## 20. Search location on Google map

Double click on the SMS(Text message) received from the model TL201 personal GPS tracker. This will open up your smart phones Google map service, using the supplied GPS data from the model TL201.

## 21.Displaying location on your cell phone

It will reply a URL within the location SMS(text message) like:

<http://grpsqprs.vip3.dns12580.com/?22.7640783/114.3976533>

Click the URL then you can see the location



## 22. Tracking in the PC software

If you want to track the device in our tracking software, please contact us for more information. TracUSA will provide detailed information concerning the availability and cost of web based tracking for the Model TL201.

## 23. Caution & User Instructions IMPORTANT PLEASE READ !!!

Please comply with the instructions to extend the unit life:

1. Keep the unit dry. Any liquid, i.e. rain, moisture, 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 malfunctions and void all warranty's..
9. Don't dismount the antenna , or use other antennas. This may interfere the transmission, and increase the radiation (RF exposure) as well.
10. It is suggested by TracUSA that owners limit the wearing of this device in a position where it is closer than 5 mm to the body to 2-3 hours at a time. Preferred usage is carrying in a book bag, jacket pocket, purse, attached to key ring etc. to limit RF exposure. This is a similar warning all cellular phones supply.
11. This unit is never to be used like a cell phone and put against the user's ear/head as if using a cell phone. User is specifically instructed to not use the TL201 against one's ear/head.

24. The USB cable is for charging only. It is NOT used for any other purpose

## 25. FCC REQUIRED WARNINGS:

### FCC Regulations:

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●This TracUSA model TL201 personal GPS tracking device/ mobile phone complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

●This TracUSA model TL201 personal GPS tracking device/mobile phone has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

●The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### ▶ **RF Exposure Information (SAR)**

This TracUSA model TL201 personal GPS tracking device / mobile phone meets the government's requirements for exposure to radio waves.

This TracUSA model TL201 personal GPS tracking device/phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. \*Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone/TracUSA model TL 201 personal GPS tracking device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone/ TracUSA model TL201 personal GPS tracking device while operating can be well below the maximum value. This is because the TracUSA model TL201 personal GPS tracking device/ phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

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The highest SAR value for the TracUSA Model TL201 personal GPS tracking device/ phone as reported to the FCC when worn on the body, as described in this user guide, is **.929 W/kg** .(Body-worn measurements differ among device models, depending upon available accessories and FCC requirements.) This device is not recommended for use on the ear per the user manual instructions.

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this TracUSA Model TL201 personal GPS tracking device/ phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this TracUSA Model TL201 personal GPS tracking device/ phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID **YEATL201**.

For body worn operation, this TracUSA Model TL201 personal GPS tracking device/ phone has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of **1.5 cm** from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of **1.5 cm** from your body when the TracUSA Model TL201 personal GPS tracking device is switched on.

This device is compliant with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.