GPS Vehicle (GPS+GSM+GPRS)

TR21 User Manual



Please read the manual carefully before use the GPS Tracker so that you can install the device correctly and activate it quickly on the internet. The outlook and true color are subject to the actual product.

1. Technical parameter

1) .GSM: 850/900/1800/1900MHz

2) .GPRS: Class12,TCP/IP

3) . Working Voltage: 3.90V DC

4) . Working current: ≈35mA (12vDC)

5) . Working current: ≈4mA (24vDC)

6) .GPS locating time: Cold start≈38s (Open sky) Warm start ≈32s Hot start≈2s (Open sky)

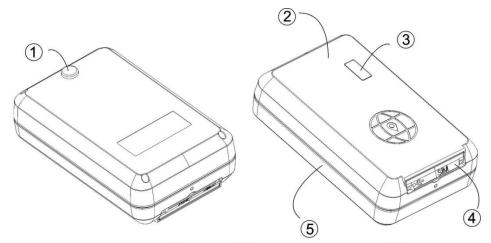
7) .GPS Precision: 10m (2D RM)

8) . Working temperature: -20°C∼+70°C

9) . Working humidity: $20\% \sim 80\% RH$

10) . Measurement: 87 (L) ×54 (W) ×26 (H) mm

2. Out look



(1)Button (2)Top Shell (3)lens (4)SIM card holder (5)Bottom Shell

3. Device status indicators

3.1 blue LED (working status indicator)

After the device is turned on, the LED lights flashing (0.3 sec /3 sec).

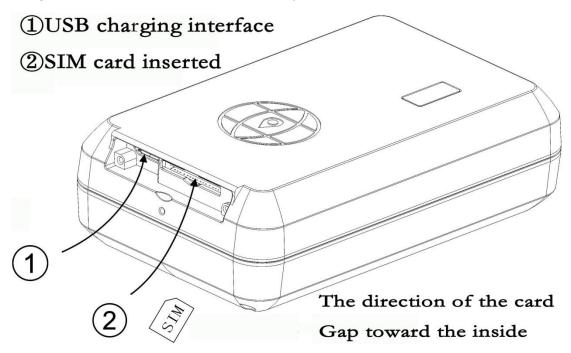
3.2 red LED (charge status indicator)

This LED light is not bright, the charge of this LED flashing (0.3 sec /3 sec), full of electricity, the LED light is always bright.

All LEDS will turn off after 3 minutes. When there is a new call, the LEDs will relight and turn off 3 minutes later.

4.GSM Installation

- **4.1** Preparation for the installation
- **4.1.1** Product Check. Open the packing box and check the device's model and accessories. If the model is wrong or the accessories not complete, please contact the dealer.
- **4.1.2** Choose SIM card. Please insert a SIM card to the device. Please take dealer's advice as reference. The GSM card must be with GSM function and enough deposit.
- 4.1.3 GSM installation, open the terminal SIM interface that end of the small cap, hand holding a SIM card, the chip side down, there is a gap at the end of the inside, to promote the card slot inside you can. Need to be removed when the top pressing with a finger SIM Carol card slot on the outside, you can pop. (as follow)



Note: don't install backwards the terminal GSM card
If your GSM card need input PIN when power on, please referr your phone's user
manual and cancel it.

5. Terminal operation status

- 5.1 boot: terminal insert SIM card, while the anti tamper switch to play up, automatically boot. Blue light has a regular flashing (0.3 sec /3 sec), it means that the equipment is working properly.
- 5.2 operating modes: terminal has four kinds: 1. Normal mode; 2. Intelligent sleep mode; 3. Deep sleep mode; 4. Regular boot mode; (details please refer to the following instructions that sleep instruction)

Terminal default mode of operation is a smart sleep mode, that is, after the end of 3 minutes after the shutdown GPS, GPRS, in the standby power of the state, when the sensor detects movement, re open GPS, GPRS, reported the location information.

6 .functional characteristics

- 6.1 platform instant position display, at any time to view the current and historical location information.
- 6.2 platform can be set up electronic fence alarm, if outside zone , receive alarms.
- 6.3 without external power, free installation, just plug in a hidden corner, or sucking on an iron plate.
- 6.4 platform GPRS remote instructions (set the administrator, modify the mode of operation, etc.), simple and convenient.
- 6.5 equipped with anti demolition, anti off switch, equipment was taken to move or fall, or timely reporting alarm information.
- 6.6 battery power is too low, timely report to the state information.
- 6.7 built in 3D accelerator, distinguished between motion and stationary state, intelligent power saving.
- 6.8 can be at any time to check the latitude and longitude of the text message.
- 6.9 6800MA large battery power supply, the use of more long-term.
- 6.10 using AGPS program, positioning time is more efficient.

7 .user instructions

1)CENTER			
Text command	Parameter	Sample	
CENTER Add	CENTER,A,number#	1)CENTER,A,13500135000#	
CENTER Del	CENTER,D#	1)CENTER,D#	
Command Description	center number can be used to send short message instructions to restore the factory settings		
	2) the central number is also the function of SMS and telephone reception.		
	3) increase the number of central numbers with A,		
	CETNER, delete with CENTER, D		
Command Feedback	Successful Setting: SET CENTER TEL OK!		

2)APN			
Text command	Parameter		Sample
APN Parameter	APN, network	name [,	1: APN,intenet,123,123#
	account	number,	2: APN,cmnet#
	password]		

	Account password is optional
Command Description	APN instructions for the configuration of different countries in the operator's Internet access parameters, the user to query the APN parameters of the use of the card.
	Such as: APN need to account password, the reference example 1, does not require the account password is the reference example 2 Note: APN has been built in many countries, if you can access the Internet does not need to set
Command Feedback	Successful Setting: SET APN OK!

3)SLEEEP				
Text command	Parameter	Sample		
SLEEP Parameter	SLEEP,mode#	0#, SLEEP (normal		
		working mode)		
		SLEEP, 1# (Intelligent		
		sleep mode)		
		2#, SLEEP (deep sleep		
		mode)		
Command Description	1 device factory default mod			
		e device will be closed for 3		
	minutes to close the GPRS	6, GPS, in an offline state of		
	sleep, the movement can	wake up, re connect the		
	platform, open GPS.			
	3. Deep sleep mode, equipment in completely dormant			
	· ·	state, is not affected by the movement and stillness, only		
	to send instructions WAKE# or center number call to			
	wake up, every time the wake-up time only lasted 3			
	minutes, 3 minutes after equipment will again to enter			
	the deep sleep state.			
	· ·	e will not enter the dormant		
		been effective, unless it is in		
	•	aces where no GPS signal,		
	• •	nas maintained a connection		
	state.			
Command Feedback		K, the model is: intelligent		
	sleep mode!			

4)POWER		
Text command	parameter	Sample

POWER	POWER,time#	10#,POWER automatically boot every 10 hours	
		102#, POWER every 2	
		days to start once	
Command Description	1) POWER instructions are	used to set the device timer	
	switch function.		
	2) after the instruction is se	nt, the three working modes	
	are closed, and the timing s	witch mode is executed.	
	3) from time to time to open the shutdown, the need to		
	remove the switch is pressed, to perform the shutdown		
	timer start function		
	4) setting range: 1~24 hours, between 102~107, 102		
	said 2 days		
	5) the default device is not this mode, the default is 1#,		
	SLEEP mode.		
Command Feedback	Successful Setting: Set PO	WER OK, Time interval: 10	
	hours!		

5)WAKE			
Text command	parameter	Sample	
WEAK	WEAK#	WEAK#	
Command Description	1) WAKE commands to wake up the intelligent sleep		
	mode and the deep sleep mode.		
	2) this instruction is not valid for normal mode and timing		
	mode		
	3) when the device is not in a dormant state, the		
	instruction is not valid.		
Command Feedback	Successful Setting: Set WE	AK OK!	

6)POFF				
Text command	parameter	Sample		
POFF Parameter	POFF,minute#	POFF,3#	3	minutes
		equipment sh	utdo	wn
Command Description	1) POFF instruction can only play a role in the timing of			
	the POWER boot mode.			
	2) the default time is 3 minutes			
	3) timed shutdown time tamper switch bounce and			
	charge state is invalid in equipment.			
	4) the time setting range: 3~10 minutes			
Command Feedback	Successful Setting: Set OFF OK!			

7)SERVER		
Text command	parameter	Sample
SERVER	SERVER,	1)SERVER,83466207,b.gps18.com,7700#

	password, domain name /IP, port #	2)SERVER,83466207,121.14.139.39,8080#
Command	This feature is need	ded to modify the server IP/ domain name and
Description	port when used.	
	Port range: 10~655	535
	Password: 834662	07; (if there is a change, to find suppliers to
	confirm)	
	Domain name: can	be a domain name, or IP address.
Command	Successful Setting:	Set IP OK! IP& port: 121.14.139.39:8080
Feedback		

8)GMT				
Text command	parameter	Sample		
GMT Parameter	GMT, location, time zone,	1) GMT,E,8#		
	half time]#	2) GMT,E,6,30#		
Command Description	The default time zone on the	e terminal is the Beijing time		
	zone E8, if you need to char	zone E8, if you need to change the time zone, you need		
	to send the above instructions. Scope: E/W, 0~12			
	Directions: where E represents the eastern time zone, W			
	represents the Western time zone.			
	If you need to set a half time zone is in the way of			
	example 2, otherwise, by example 1			
Command Feedback	Successful Setting: Set GMT OK!			

9)VIBRATION			
Text command	parameter	Sample	
VIBRATION Parameter	VIBRATION, The alarm	1) VIBRATION,2,3#	
	level [alarm mode] #	2) VIBRATION,2#	
Command Description	This directive is used to s	set the vibration alarm, the	
	alarm level is 0~5, of which	ch 0 for the closure of the	
	alarm, 1 to 5, the more lower the more sensitive. Alarm		
	mode: 1, telephone; 2, SMS, 3, telephone and short		
	message; the default is 1 phone; alarm mode can not		
	choose, such as example 2; must set the center number		
	to receive SMS and telephone!		
Command Feedback	Successful Setting: Set VIBRATION OK!		

10)FCALM			
Text command	parameter	Sample	
FCALM	FCALM,way#	FCALM,1# alarm	Telephone
Command Description	1) this instruction in order to set up the alarm after the alarm mode.		

	1) 2 telephone alarm; 2 short message alarm, 3
	telephone + short message alarm
	3) the default off state, that is, to prevent the alarm
	reporting platform, no phone calls and text messages
Command Feedback	Successful Setting: Set FCALM OK!

11)TIMER			
Text command	parameter	Sample	
TIME Parameter	TIMER, Upload time	TIMER,30#	
Command Description	1 time range: 10~60 seconds;		
	2 the default is 10 seconds to upload!		
	3 timing boot and deep sleep mode has been dormant,		
	upload interval is invalid.		
Command Feedback	Successful Setting: Set TIM	ER OK!	

12)LANG			
Text command	parameter	Sample	
parameter	LANG,1# ,LANG,0#	LANG,1# Set Chinese	
		LANG, 2#Set English	
Command Description	When the text message to view the address, set to		
	Chinese is returned to the Chinese address, English is		
	returned to the URL position link;		
Command Feedback	Successful Setting: Set LANG : EN		

13)FACTORY			
Text command	parameter	Sample	
FACTORY	FACTORY#	FACTORY#	
Command Description	This instruction is used to restore the factory settings.		
	Restore factory settings for all users to add and modify		
	the content will be restored!		
Command Feedback	Successful Setting: Set FACTORY OK! to restore the		
	factory settings!		

14)RESET		
Text command	parameter	Sample
RESET	RESET#	RESET#
Command Description	This instruction is used to restart the device	
Command Feedback	Successful Setting: RESET OK!	

15)PARAM

Text command	parameter	Sample	
PARAM	PARAM#	PARAM#	
Command Description	This instruction is used to query the parameters and		
	default parameters set by the device.		
Command Feedback	IMEI:351190012535936 APN:cmnet IP:www.gps18.com:7700 CENTER:13800138000	device IMEI operator GPRS node sever IP and port center number	
	UPLOADING TIME:10S LANGUAGE: Chinese GMT: time zone (E/W8)	moving uploading interval language(CN/EN) time zone(E/W 0~12)	

16)STATUS			
Text command	parameter	Sample	
STATUS	STATUS#	STATUS#	
Command Description	The command is designed for checking the device's		
	working status.		
Command Feedback	BATTERY:100%	Battery status (SOC)	
	GSM Signal: HIGH	GSM Signal strength	
	GPS:FIXED	GPS Location condition	
	GPS Signal: HIGH	GPS Signal strength	
	Voltage: 4.18E	attery voltage (V)	

17) 123			
Text command	parameter	Sample	
123	123	123	
Command Description	This command is used to query the current location description		
Command Feedback	description, if the language	Set to Chinese, the Chinese address is returned to the description, if the language is English, to return to the URL position link: Shenzhen, Xinzhou, Guangdong	

18)WHERE			
Text command	parameter	Sample	
WHERE	WHERE	WHERE	
Command Description	This directive is used to check the current latitude and longitude, time and other information of the equipment.		
Command Feedback	Successful Setting: Equipment current longitude, time, speed, IMEI number		

19)URL			

Text command	parameter	Sample	
URL	URL#	URL#	
Command Description	This directive is used to link the GOOGLE map of the query device		
Command Feedback	<datetime:12-07-05 13:21:30=""></datetime:12-07-05>		
	http://maps.google.com/maps?q=N22.54.88,E113.95265		

20)VERSION			
Text command	parameter	Sample	
VERSION	VERSION#	VERSION#	
Command Description	This directive is used to query the version information of		
	the current device		
Command Feedback	VERSION:YSJ.XXX.XXX.V01		
	IMEI:35868800000158		

21)FEE			
Text command	parameter	Sample	
FEE parameter	FEE,Query	FEE,10010,102# Query	
	number,contents# mode of China Unico		
		FEE,10086,101# China	
		Mobile query mode	
Command Description	This instruction is used to query the current calls status		
	of the device SIM card		
	Query number: SIM is the operator of the query number Content: the contents of the query, such as mobile CXYE or 101 is the balance of the query		
Command Feedback	Return the call query results returned by the operator		

Note: the comma in the instruction must be English comma, not Chinese comma, the middle can also be separated by #, instead of a comma

8 .charging reminder

Equipment using the built-in charging head and line charging, can not be used indiscriminately charging line charging, because we have fast charging and built-in charging, fast charging charging current up to 1a, with other different specifications of charging head and line, may cause damage to the equipment.

9. anti tamper alarm

- 9.1 terminal adsorption on a piece of iron (tamper can not switch is in a self-locking state), when a terminal is picked up, the tamper switch bounce, to the platform reporting alarm information.
- 9.2 at the same time will send a message to the center number or call (the premise is to open a text message or telephone alarm function).

10.GPS sleep and wake up

When the terminal is in the intelligent sleep mode, still 3 minutes will enter the sleep, by the sensor control, if the sensor is detected in the motion state, it will automatically wake up GPS.

When the terminal is in a deep sleep state, GPS has been in a state of sleep, not affected by the sensor, only the center number dialed terminal number or send text messages instructions, will wake up 3 minutes.

When the monitor function is turned on, the central number of the call will not wake up the device, but directly into the listening state, then if you need to wake up the device, can only send text messages WAKE#

11. Trouble shooting

- **9.1** The device is not online or offline on the web platform
- **9.1.1**First, please check whether the three indicator is normal or not ,if there's no condition for observe, Please use the cell phone to call the terminal SIM card number, according to the reminding tone to determine the status of the terminal.
- If not connected, Indicating that the terminal temporarily can not connect or the GSM signals cannot reach your location

Terminal area may not be covered by the GSM signal or weak signal in the basement and other places, please drive to the open sky.

- If not connected, suggesting that the Terminal is insufficient Or has been shut down
- If reminding the device SIM card is out of deposit, please recharge it.If you can connect to the device when calling,and hear a beep. Du, du. noise the SIM card is installed correctly and has deposited and please check with your operator for GPRS function. You also can check by searching the internet on your mobile phone. If you can not open website ,the GPRS function has not open .please contact with the operator to open
- If the terminal is not connected and reminding shutdown

At this moment must recall vehicles to check the working status of the terminal, the processing steps are as follows:

a) check whether the two indicator lights flashing or long bright, if not bright, please check the end of the terminal and the car is plugged in

Please pull down the device and send back to your agency for maintain.

- b) If the red power indicator is long light, the blue GSM indicator is not long light ,please check the SIM card for whether it is installed correctly. If installed ok ,please change another SIM card for use
- 9.1.2 Please check the offline area, it's individual drops or all drops, in order to judge if the network problem of operators.
- **9.2** When GPS signal receiving abnormal, please drive to a open place to locate.In general locating time need 1 to 2 minutes for the first time,If long time no locating, Please check if the device location follows up with the requirements.Normal place is no metal block installed
- 9.3 When GSM signal receiving abnormal, please check if the SIM card installed

correctly or the GSM signals may not reach your location (such as the basement), please drive to the open sky.

9.4 The red LED is not glow when power on. Check the fuse of the power line. If the fuse is fused, please change the fuse with the seller, and check the device about the inner malfunction, then power on to use again.

15.GPRS Tips

SIM card GPRS data suggested a monthly subscription service using GPRS; If the vehicle moving for a long time every day, please change the upload interval longer, for example: TIMER,30#

GPS locating terminal warranty card

special announcement:

- 1.If products has technical changes ,we've no prior notice.
- 2. The shape and color, please in kind prevail
- 3. Warranty card applies to the specified IMEI number in the following table
- **4.**Please properly keep this card and receipt in case of after-sales service
- **5.**The following is for the warranty reference

This form is the basic of the warranty certificate information, please fill out the form carefully

<i>_</i>		
Name	Telephone number	
address		
Туре	IMEI	
Date		
Purchase		
name		
Agency		
address		
Agency		
Phone		
address Agency		

- 1. Hosts are guaranteed for 12 months, from date of purchase which products are not being damaged by any man-made factors
- 2. Listed below are the situation which is not covered under the warranty, users need to pay maintenance fees
- (1) Beyond the warranty period
- (2) maintenance and repair by disassembling the machine without authorization
- (3) Soak, damage or burn circuit board
- (4) Installation, use, maintenance or improper storage
- (5) Housings, lenses or internal damage to the antenna
- (6) IMEI number tearing or blurred
- (7) Warranty certificate inconsistent with the product model or has been modified
 - (8) Damage caused by irresistible force

Maintenance Record

The first time			
Maintenance unit		Date	
Fault statement			
Maintenance condition			
IMEI		serviceman	

The second time			
Maintenance unit		Date	
Fault statement			
Maintenance condition			
IMEI		serviceman	