GPS Vehicle Tracker

User Manual

Model: IF310

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1. Product Overview

VT310 is a GPS/GPRS based tracking device specially developed and designed for vehicle real-time tracking and fleet management.

VT310 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 for tracking and fleet management.

With internal memory, VT310 can store GPS coordinates when there is no GPRS connection or at a specified interval requested by the user.

One optional feature of VT310 is that a microphone can be linked out to be hidden somewhere inside the vehicle for listening to the cabin.

VT310 has the following functions and features:

- SMS and GPRS TCP/UDP Communication
- Track on Demand
- Show Location Directly on Mobile Phone
- Track by Time Interval
- Listen (Voice Wiretapping) (Optional)
- GSM Blind Area Memory
- Logging Capacity up to 180,000 Waypoints
- 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)
- Power-cut Alarm
- Engine Cut (Stop Engine)
- I/O: 5 digital inputs, 3 negative and 2 positive triggering; 5 outputs
- Analog Input: 2 analog inputs of 10 bits resolution for connecting fuel level sensor or other sensors.

2. For Your Safety

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

Proper Connection	When connecting with other device, read carefully its manual so as to		
	carry out correct installation. Do not connect it to other incompatible		
	devices.		
Qualified Accessories	Use original parts, qualified batteries and peripheral equipments to		



	avoid damage to VT310.
Safe Driving	Drivers should not operate this product while driving.
Qualified Service	Only qualified personnel can install or repair VT310.
Water Resistance	VT310 is not water resistant. Keep it dry. Install it inside the vehicle or
	use waterproof bag if necessary.
Confidential Phone Number	For safety reason, do not tell other people the mobile phone number of
	your VT310 without taking precautions of security settings.

3. VT310 Characteristics

Items	Specification
Power Supply	+9V - +36V / 1.5A
Backup Battery	850mAh
Normal power consumption	85mA/h
Dimension	104mm x 62mm x 24mm
Installation Dimension	104mm x 83mm x 24mm
Weight	190g
Operating temperature	-20° to 55° C
Humidity	5% to 95% Non-condensing
Frequency	Quad Band GSM 850/900/1800/1900Mhz
GPS Module	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.
LED	2 LED lights to show GPS/GSM status.
Flash Memory	4MB
Button	One SOS Button
Interface	5 digital inputs (3 negative and 2 positive triggering); 2 analog inputs;
	5 outputs.

4. Getting Started

This section will describe how to set up your VT310.

4.1 Hardware and Accessories

VT310 is supplied in a box which includes:



4.2 View



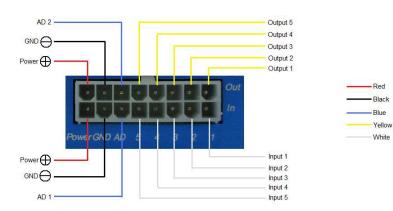
4.3 Functional Parts



GPS LED (Blue)	
On One button is pressed or input is active.	
Flashing (every 0.1 second)	The unit is being initialized

Flashing (0.1 second on and 2.9 seconds off)	VT310 has a GPS fix	
Flashing (1 second on and 2 seconds off)	VT310 has no GPS fix	
GSM LED (Green)		
On	One call is coming in / one call is being made	
Flashing (every 0.1 second)	The unit is being initialized	
Flashing (0.1 second on and 2.9 seconds off)	VT310 is connected to the GSM network	
Flashing (1 second on and 2 seconds off)	VT310 is not connected to the GSM network	
Power On/Off Button	Press and hold for 3~5 seconds to turn on/off VT310.	
SOS Button	SOS button is connected with the wires. Press it to send SOS alarm to	
	the preauthorized phone number.	
Mini USB	Used for firmware update, configuration on PC and exporting stored	
	data. (USB-to-Serial Adaptor is required for firmware update,	
	configuration and exporting stored data)	
SIM Card Holder	To insert SIM card here	
GSM Antenna	Connector for GSM antenna	
GPS Antenna	Connector for GPS antenna	
Screw Holes	There are 4 screw holes on the tracker, 2 along either side that act as	
	fixing points to the vehicle	
Microphone (optional)	A microphone to be linked out for listening to the cabin (wiretapping)	

PINs Connector



PIN	Color	Function			
Power	Red	DC In (power input).	DC In (power input). Input voltage: 9V~36V. 12V suggested.		
GND	Black	Ground	Ground		
In	White	Digital Inputs. In1, Ir	12 and In3 are negative trigge	ring; In4 and In5 are positive triggering.	
Out	Yellow	Output open drain sir	(OV) when effective and oper nk voltage (ineffective): 45V n nk current (effective): 500mA	nax.	
AD	Blue	10 Bits Resolution An	alog Inputs. Input voltage: 0-	~6V.	
DC Char	acteristics of	PINs			
			a .:		

PIN	Inactive	Active	Maximum
Input 1/2/3	Open drain or >1V	0V(GND)	45V
Input 4/5	Open drain or OV(GND)	>3V	45V
Output 1/2/3/4/5	Open drain	OV (GND)	45V/500mA
DC IN	/	9-36V	45V

AD 1/2	/	0-6V	45V

4.4 Connecting and Installation

Read this manual before using your VT310 and check if all parts are included in the packaging box.

4.4.1 Ensure that your VT310 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 VT310, please make sure the SIM installed supports displaying caller ID.

Before inserting SIM card, cut off the power for VT310.

Install SIM Card

- Unscrew and remove the front cover of VT310.

- Insert the SIM card by sliding it into the card slot with the chip module facing to the connectors on PCB.

- Put back the front cover and screw it up.

4.4.2 Antenna Connection

Connect the GSM Antenna to VT310.

Connect the GPS Antenna to VT310.

- GPS antenna is used to receive satellite signals in the sky. It should be fixed to face the sky (to be placed under the windscreen is recommended) and should not be covered or shielded by any objects containing metal.

4.4.3 Find a suitable place inside the car for installing VT310. Wiring connections must be firm and reliable and the joints should be wrapped with insulating tape tightly. The unused electrical wire should be properly insulated.

Check if all wirings have been connected correctly and then connect the AVL unit to the motor power.

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

Make a missed phone call the VT310 using a mobile phone to check if the calling can go through and the VT310 replies with an SMS indicating longitude, latitude, speed and date.

5. Change Password

Command: W*****,001,##### Description: Change user's password. 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.
 ####### 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=[1, 65535] 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 W000000,032,-120

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 Google link

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: <u>http://maps.google.com/maps?f=g&hl=en&g=22.540103,114.082329&ie=UTF8&z=16&iwloc=addr&om=1</u>

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 <u>http://earth.google.com/</u>) or go to <u>http://maps.google.com</u> 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:

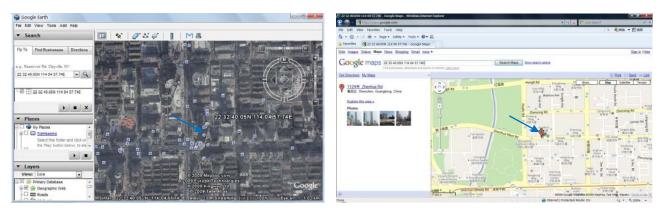
When you receive: Latitude = 22 32 40.05N Longitude = 114 04 57.74E

Type as the following picture shows:

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

▼ Search	Web Images Videos Maps New	vs Shopping Gmail more 🔻	
Fly To Find Businesses Directions	Google maps 22 3	12 40.05N 114 04 57.74E	Search Maps
e.g., Reservoir Rd. Clayville, NY 22 32 40.05N 114 04 57.74E		ousinesses, addresses and places of interest. Learn more.	
	Get Directions My Maps	*	

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

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



GPS Tracking Software - MS01

Please refer to MS01 User Guide for more information.

7.6 Track by GPRS 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,trackingmate,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.trackingmate.com,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. XXXX=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 VT310 supports GpsGate Software. Please contact us or GpsGate for more information of settings.

8. Authorization

Command: W*****,003,F,P,T

Description: Authorize phone numbers for the SOS button (or inputs) for receiving location reports and SMS alarms.

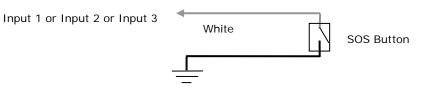
Note:

F=0, to turn off this function; (default)
F=1, Sends SMS to the authorized phone number;
P=1, set an authorized number for SOS button (Input 1)
P=2, set an authorized number for Input 2
P=3, set an authorized number for Input 3
T: Preset phone number. Max.16 digits
Example:
W000000,003,1,1,88888888

9. Application Examples for Inputs

9.1 SOS Button Connection

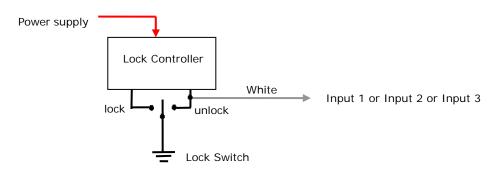
Connect the SOS button and wires as below picture shows:



Note: input voltage to Input must not over 45V

After above authorization is complete, once the SOS is pressed, an SOS SMS - "SOS Alarm" will be sent to the preauthorized phone number and then a message with longitude and latitude to follow.

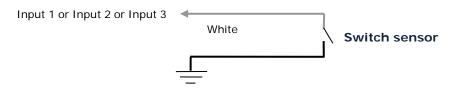
9.2 Detecting Lock Status of Car's Door or Trunk (Car Boot).



When the lock is opened, there will be negative triggering to Input 1 or Input 2 or Input 3, then an SMS alarm will be sent to the authorized phone number or a GPRS alarm will be sent to the server (please refer to the GPRS Command 0x9999 in <GPRS Communication Protocol>).

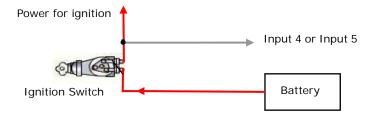
9.3 Connecting with Switch Sensors

The SMS alarm will be sent to the authorized phone number.



9.4 Ignition Detection

Input 4 or Input 5 (positive triggering) can be used for ignition detection. The detection alarm will be sent to the server via GPRS. Please refer to <GPRS Communication Protocol> Alarm Command 0x9999 for more information.



9.5 Analog Input (AD1 and AD2)

Input voltage should be 0~6V. Please refer to <GPRS Communication Protocol >for more information for AD1 and AD2 data.

For example: 094506.000,A,2232.5412,N,11404.6919,E,0.00,,290709,,*12|1.7|110|0000|00AA,0267AD1 is 0x00AA and AD2 is 0x0267. Voltage Formula: Input Voltage=(AD*6)/1024 0x00AA=>170(decimal)=>(170*6)/1024=0.99609375V(voltage)0x0267=>615(decimal)=>(615*6)/1024=3.603515625V(voltage)

Application Example - Fuel Level Sensor

Fuel level sensors supplied by us are resistance-type sensors with output resistance: $0-200\Omega(ohm)$.

For the circuit shown on the right picture, if VCC is 12V, R should be $200\Omega(\text{ohm})$ and if VCC is 24V then R should be $600\Omega(\text{ohm})$ to make the input range to AD1 or AD2 is 0-6V.

Below formula is for calculating the fuel percent left for this fuel level sensor:

 $\frac{1024 - Value_{AD1/AD2}}{1024}\%$

Note: The value must be converted into decimal, for example, 0x0267 is 615 in decimal.

10. Low Battery Alarm

Command: W*****,004,X

Description: When the tracker's voltage is lower than the preset value, it will send an SMS alarm to the authorized phone number for SOS.

Note: X is the preset value of voltage.

=3 , <3.5V (default) =4 , <3.6V =5 , <3.7V	=0 , to turn off this function	=1, <3.3V	=2 , <3.4V
	=3 , <3.5V (default)	=4 , <3.6V	=5 , <3.7V

Example: W000000,004,2

11. Overspeed

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 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.

12. Movement/Geo-fence

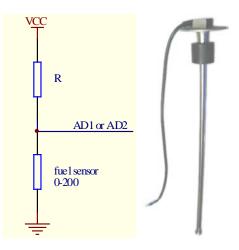
12.1 Movement Alarm

Command: W*****,006,XX

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

Note: XX is the preset distance to the tracker's original place

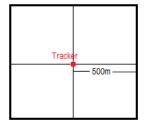




=00, to turn off this function

=01, 30m	=02, 50m	=03, 100m	=04, 200m
=05, 300m	=06, 500m	=07, 1000m	=08, 2000m

Example: W000000,006,06



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

12.2 Geo-fence Alarm

Command: W*****,017,X or W*****,117,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. 017 is for alarm when tracker moves out the preset scope;
- 2. 117 is for alarm when tracker moves in.
- 3. X is the coordinates which include: Lower-left X,Lower-left Y,Upper-right X,Upper-right Y
- 4. Lower-left X should be less than Upper-right X;
- 5. All longitudes and latitudes should be in ASCII format as follows: -

Longitude: DDDMM.MMMM,E/W. 4 places of decimal. '0' is needed to be stuffed if no value available. Latitude: DDMM.MMMM,N/S. 4 places of decimal. '0' is needed to be stuffed if no value available;

6. Send W*****,006,00 to turn off Geo-fence function.

Example:

W000000,017,11404.0000,E,2232.0010,N,11505.1234,E,2333.5678,N W000000,117,11404.0000,E,2232.0010,N,11505.1234,E,2333.5678,N

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.

13. Output Control

13.1 Output Control (Unlimited)

Command: W*****,020,1,F Description: Send this command to control the Output of VT310 Note: F=0, to close the output (open drain); F=1, to open the output (low voltage).

Example: W000000,020,1,1

13.2 Output Control (Limited)

Command: W*****,120,ABCDE or W*****,220,ABCDE

Description: Send this command to control the Output of VT310. This command is only workable when the speed is below 10km/h(command 120) or 20km/h(command 220) and meantime GPS is available. **Note**:

ABCDE represents Out1, Out2, Out3, Out4, and Out5 respectively.

If A or B or C or D or E,

=0, to close the output (open drain)

=1, to open the output (low voltage)

=2, to remain previous status

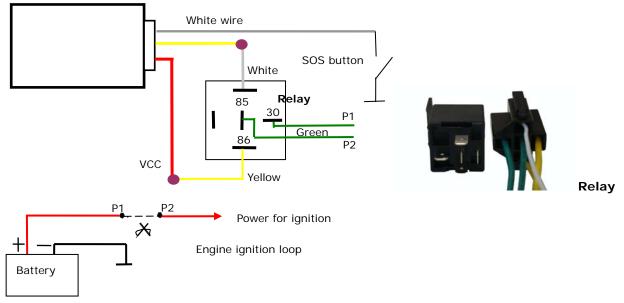
Example:

W000000,120,10000 W000000,220,10000

13.3 Application Examples for Outputs

13.3.1 Engine Cut

Relay Connection: Connect a replay as below picture shows:



Calculate the correct VCC value according to relay's parameter to comply with the following requirements:

Output open drain sink voltage (ineffective)	45V max
Output Low voltage sink current (effective)	500mA max

Normally two green wires are connected solidly (P1 and P2 are Normal Close[NC] in the relay), when output is open (Output be low voltage), two green wires will disconnect, the engine is then cut.

Take Output1 as an example:

W000000,020,1,1 (cut engine)

W000000,020,1,0 (cancel engine-cut)

13.3.2 Connecting with Car Alarm

When the Output that connected to the car alarm is open, the alarm will start to work.



Output 2 or Output 3 or Output 4 or Output5

14. Listen (Voice Wiretapping) (optional)

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. Veer Report

Command: W*****,036,degree

Description: 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. This is to enhance the accuracy when the tracker makes a direction change.

Note:

degree=0, to turn off this function.
degree=[1,360], to set degree of direction change. **Example**: W000000,036,90
When the tracker turns more than 90 degree, a message will be sent back to the server.

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.

17. Power Down

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

Description: Make the tracker into power down mode(for power-saving purpose) when it is inactive or stationary 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, movement or any input changes.

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 nstationary) for 10 minutes.

18. Initialization

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

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

Note: Turn on the device, press the SOS button for five times continuously and the red LED will be on, and then send (within 120 seconds) this SMS to the tracker.

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

Example: W000000,990,099###

19. Password Initialization

Command: W888888,999,666

Description: This is to make the password back to factory default in case you forget your password. **Note**: Turn on the tracker, press the SOS button for five times continuously and the red LED will be on, and then send this SMS (within 120 seconds) to the tracker to make the password back to factory default (000000).

Example: W888888,999,666

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

20. Parameter Editor

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

- CM00	Diart	1	Read		Write	T Auto	Default
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GPS Tracker Parameter Editor V1.39

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

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:				
http://maps.google.com/maps?f=q&	&hl=en&q=22.540103,114.082329	P&ie=UTF8&z=16&iwloc=addr&om=1		

hange Password	W*****,001,######	W000000,001,123456	
Remarks: To change user's p	password. ###### is the new passwo	rd. Password should be 6 digits.	
Frack by Interval	W*****,002,XXX	W000000,002,030	
Remarks: To set interval for	automatic timed report.		
KXX is the interval in minute	e. If XXX=000 to turn off tracking by ti	ne.	
n this example, the tracker	will send location data back to your m	obile phone every 30 minutes.	
Authorization	W*****,003,F,P,T	W000000,003,1,1,88888888	
Remarks: To authorize phon	e numbers for the buttons/inputs for r	eceiving location reports and SMS alarms	
F=0, to turn off this function	n; (default)		
F=1, sends SMS to the auth	orized phone number;		
² =1, set an authorized num	ber for SOS button (Input 1)		
P=2, set an authorized num	ber for B button (Input 2)		
P=3, set an authorized num	ber for C button (Input 3)		
T: Preset phone number. Ma	x.16 digits		
Remarks: When the tracker's	W*****,004,X s voltage is lower than the preset value	W000000,004,2 it will send an SMS alarm to the authorize	ed phone num
Remarks: When the tracker's for SOS.	s voltage is lower than the preset value		ed phone num
Remarks: When the tracker's for SOS. X is the preset value of volta	s voltage is lower than the preset value	it will send an SMS alarm to the authorize	ed phone num
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function	age. n =1, <3.3V	it will send an SMS alarm to the authorize	ed phone num
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default)	age. n =1, <3.3V	it will send an SMS alarm to the authorize	ed phone num
for SOS. X is the preset value of volta =0 , to turn off this functio =3 , <3.5V (default) Speeding Alarm	age. =1, <3.3V =4, <3.6V W******,005,XX	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker so	age. $= 1, <3.3V$ $= 4, <3.6V$ $W^{*****},005,XX$ speeds higher than the preset value, it eed and in 2 digits.	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of spe =00, to turn off this function	age. $= 1, <3.3V$ $= 4, <3.6V$ $W^{*****},005,XX$ speeds higher than the preset value, it eed and in 2 digits.	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker st XX is the preset value of spe =00, to turn off this function =[01, 20] (unit: 10Km/h)	age. $=1, <3.3V$ $=4, <3.6V$ $W^{*****,005,XX}$ speeds higher than the preset value, it eed and in 2 digits. n	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker st XX is the preset value of spe =00, to turn off this function =[01, 20] (unit: 10Km/h)	age. $= 1, <3.3V$ $= 4, <3.6V$ $W^{*****},005,XX$ speeds higher than the preset value, it eed and in 2 digits.	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of spee =00, to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker	age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. n racker's speed is over 80km/h, an SMS	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out.	
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker so XX is the preset value of spee =00, to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker so Movement Alarm	age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. n racker's speed is over 80km/h, an SMS W******,006,XX	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out. W000000,006,06	number for SC
Remarks: When the tracker's for SOS. X is the preset value of volta =0 , to turn off this function =3 , <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of speed =00 , to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker s Movement Alarm Remarks: When the tracker s	age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. n racker's speed is over 80km/h, an SMS W******,006,XX	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out.	number for SC
Remarks: When the tracker's for SOS. X is the preset value of volta =0 , to turn off this function =3 , <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of spee =00 , to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker is Movement Alarm Remarks: When the tracker is SOS.	age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. n racker's speed is over 80km/h, an SMS W******,006,XX moves out of a preset square scope, it of	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out. W000000,006,06	number for SC
Remarks: When the tracker's for SOS. X is the preset value of volta =0 , to turn off this function =3 , <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of spee =00 , to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker s Movement Alarm Remarks: When the tracker s SOS. XX is the preset distance to	s voltage is lower than the preset value age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. in tracker's speed is over 80km/h, an SMS W******,006,XX moves out of a preset square scope, it was the tracker's original place	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out. W000000,006,06	number for SC
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker s XX is the preset value of speed =00, to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker of Novement Alarm Remarks: When the tracker of SOS. XX is the preset distance to =00, to turn off this function	s voltage is lower than the preset value age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. n racker's speed is over 80km/h, an SMS W******,006,XX moves out of a preset square scope, it was the tracker's original place	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out. W000000,006,06 vill send an SMS alarm to the authorized p	number for SC
Remarks: When the tracker's for SOS. X is the preset value of volta =0, to turn off this function =3, <3.5V (default) Speeding Alarm Remarks: When the tracker so XX is the preset value of spee =00, to turn off this function =[01, 20] (unit: 10Km/h) In this example, when the tracker so Movement Alarm	s voltage is lower than the preset value age. in =1, <3.3V =4, <3.6V W******,005,XX speeds higher than the preset value, it eed and in 2 digits. in tracker's speed is over 80km/h, an SMS W******,006,XX moves out of a preset square scope, it was the tracker's original place	it will send an SMS alarm to the authorized =2 , <3.4V =5 , <3.7V W000000,005,08 will send an SMS to the authorized phone alarm will be sent out. W000000,006,06 will send an SMS alarm to the authorized p	number for SC

	W*****,117,X	34,E,2333.5678,N
		W000000,117,11404.0000,E,2232.0010,N,11505.12
		34,E,2333.5678,N
Remarks: 017 is for alarm when tra	cker moves out the preset scope	; 117 is for alarm when tracker moves in.
When the tracker moves in or out, it	will send an SMS alarm to the a	uthorized phone number for SOS.
X is the coordinates which include:		
Lower-left X,Lower-left Y,Upper-righ	t X,Upper-right Y	
For example, 11404.0000,E,2232.00	010,N,11505.1234,E,2333.5678,	N
Note:		
1. Lower-left X should be less than	uUpper-right X;	
2. All longitudes and latitudes sho	uld be in ASCII format as follows	3: -
Longitude: DDDMM.MMMM,E/W	. 4 places of decimal. '0' is need	ed to be stuffed if no value available.
Latitude: DDMM.MMMM,N/S. 4	places of decimal. '0' is needed t	o be stuffed if no value available;
3. Only one alarm can be set in ei	ther Movement Alarm or Geo-fer	nce Alarm;
4. Send W*****,006,00 to turn	off Geo-fence function.	
Extended Functions	W*****,008,ABCDEFGHIJ##	W000000,008,1011100011###
	#	
Remarks:		
A=0, turn off the function of sendin	g SMS location report after a pho	one call is made to the tracker.
A=1, turn on the function of sending	g SMS locaiton report after a pho	one call is made to the tracker.
B=0, location data of NMEA 0183 G	PRMC will be interpreted into nor	mal text for easy reading.
For example, Longitude = 114 degree	ee - 04 minute -57.74 second, La	atitude = 22 degree -32 minute -40.05 second
B=1, location data complies with NN	/IEA 0183 GPRMC protocol.	
For example, \$GPRMC,161509.000,	A,2232.5485,N,11404.6887,E,0.	3,153.7,290709,,*03
C=O, turn off the function to automa	atically hang up an incoming call	
C=1, turn on the function to automa	atically hang up an incoming call	after 4 - 5 rings.
D=0, turn off the function of sendin	g an SMS when the tracker is tu	rned on.
D=1, turn on the function of sendin	g an SMS to the authorized phor	e number for SOS when the tracker is turned on.
E, defaulted as 1 (the tracker shuts	down automatically when the po	wer voltage is lower than 3V).
F=O, turn off the SMS alarm when t	he tracker enters GPS blind area	
F=1, turn on the SMS alarm when t	he tracker enters GPS blind area	a. SMS is to be sent to the authorized phone number fo
SOS.		
G=0, all LEDs work normally.		
G=1, all LEDs stop flashing when th	e tracker is working.	
H, reserved and defaulted as '0'		
I=0, turn off the function of sending	g SMS alarm when the extra pow	er of the vehicle tracker is cut.
I = 1, turn on the function of sendin	g an SMS alarm to the authorize	ed 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 1000100	001)	

Set Tracker's GPRS ID	W*****,010,ID	W000000,010,00001
Remarks: to set a digital GPRS I	D for the tracker.	
GPRS ID must not over 14 digits	5.	
Set APN	W*****,011,APN,Username,	W000000,011,CMNET,trackingmate,6688
	Password	W000000,011,CMNET
Remarks: If no APN username a	nd password are required, just inpu	t APN only;
APN defaulted as 'CMNET';		
APN + username + password sh	ould not over 39 characters.	
Set IP and Port	W*****,012,IP,Port	W000000,012, 220.121.7.89,8500
		W000000,012,www.trackingmate.com,8500
Remarks: IP is your server's IP	or the domain name. Port: [1,65534	l]
	_ ·	-
Set DNS Server IP	W*****,009,DNS Server IP	W000000,009,220.23.4.90
Remarks: In case the domain n	ame you set by the last command	(W*****,012,IP, Port) doesn't work, which means you
		NS Server IP (please check with your DNS server provide
	redo the command W*****,012,	
· · · · · · · · · · · · · · · · · · ·		
Enable GPRS Tracking	W*****.013.X	W000000,013,1
Remarks:		
X=0, to turn off GPRS tracking ((default):	
X=1, to enable GPRS tracking vi		
· · · · ·		
X = 2. To enable GPRS tracking VI		
X=2, to enable GPRS tracking vi		
-	_	W000000 014 00060
Set GPRS Interval	W******,014,XXXXX	W000000,014,00060
Set GPRS Interval Remarks: to set time interval fo	W******,014,XXXXX r sending GPRS packets.	W000000,014,00060
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds.	W000000,014,00060
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction;	
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time interval	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i	n unit of 10 seconds.
Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inte	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction;	n unit of 10 seconds.
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut	n unit of 10 seconds. es).
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W******,036,degree	n unit of 10 seconds. es). W000000,036,90
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading dire	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W******,036,degree	n unit of 10 seconds. es). W000000,036,90
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading direct back to the server by GPRS.	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree	n unit of 10 seconds. es). W000000,036,90
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading direct back to the server by GPRS. degree=0, to turn off this function	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minute W*****,036,degree ection of the tracker changes over the on.	n unit of 10 seconds. es). W000000,036,90
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading dire back to the server by GPRS. degree=0, to turn off this function degree=[1,360], to set degree of	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree ction of the tracker changes over th on. of direction change.	n unit of 10 seconds. es). W000000,036,90 e preset degree, a message with location data will be sen
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading dire back to the server by GPRS. degree=0, to turn off this function degree=[1,360], to set degree of	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree ction of the tracker changes over th on. of direction change.	n unit of 10 seconds. es). W000000,036,90
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading dire back to the server by GPRS. degree=0, to turn off this function degree=[1,360], to set degree of For more information regard	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree wtton of the tracker changes over th on. of direction change.	n unit of 10 seconds. es). W000000,036,90 e preset degree, a message with location data will be sen o <gprs communication="" protocol=""></gprs>
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading direct back to the server by GPRS. degree=0, to turn off this functi degree=[1,360], to set degree of For more information regard Output Control (Unlimited)	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree ction of the tracker changes over th on. of direction change.	n unit of 10 seconds. es). W000000,036,90 e preset degree, a message with location data will be sen
Set GPRS Interval Remarks: to set time interval fo XXXXX should be in five digits a XXXXX=00000, to turn off this f XXXXX=00001~65535, time inter In this example, the tracker will Veer Report Remarks: when the heading dire back to the server by GPRS. degree=0, to turn off this function degree=[1,360], to set degree of For more information regard	W*****,014,XXXXX r sending GPRS packets. nd in unit of 10 seconds. unction; erval for sending GPRS packet and i send every 600 seconds (10 minut W*****,036,degree action of the tracker changes over the on. of direction change.	n unit of 10 seconds. es). W000000,036,90 e preset degree, a message with location data will be sen o <gprs communication="" protocol=""></gprs>

For example, if you have connect			
Output Control (Limited)	W*****,120,ABCDE	W000000	120 10000
Output Control (Limited) W*****,120,ABCDE W000000,120, W*****,220,ABCDE W000000,220,			
Domarks: This function is achieve			nmand 120) or 20km/h(command 220) a
meantime GPS is available.	able only when the speed is bein		
ABCDE represents Out1, Out2, Out	ut3 Out4 and Out5 respectively	1	
f A or B or C or D or E,			
=0, to close the output (open di	rain) =1, to open the output (low voltage)	=2, to remain previous status
		low voltago,	
Sleep Mode	W******,021,XX###	W000000),021,02###
Remarks: this setting is for powe	r saving.	I	
XX=00 turn off sleep mode	XX=01 Level I	XX=02	2 Level II
### is the ending character			
Here is some explanation for the	sleep mode. First, assume that t	the GPS acquisi	tion time is ONE minute.
[1] In Level I			
The GPS module will be working fo	or the first three minutes (i.e. 3 ti	imes of acquisiti	ion time) and then shut down for ONE minu
	a) and then work again for and		
(i.e. equivalent to acquisition time	e), and then work again for anoi	ther three minu	tes
	e), and then work again for anot	ther three minu	tes
[2] In Level II			
-	or the first two minutes (i.e. twice	of acquisition ti	ime) and then shut down for ONE minute (i
[2] In Level II The GPS module will be working fo	or the first two minutes (i.e. twice	of acquisition ti	ime) and then shut down for ONE minute (i
[2] In Level II The GPS module will be working fo equivalent to acquisition time), an	or the first two minutes (i.e. twice	of acquisition ti	ime) and then shut down for ONE minute (i
[2] In Level II The GPS module will be working fo equivalent to acquisition time), an Power Down	or the first two minutes (i.e. twice nd then work again for another t W******,026,XX	of acquisition titwo minutes	ime) and then shut down for ONE minute (i 0,026,10
[2] In Level II The GPS module will be working for equivalent to acquisition time), an Power Down Remarks: to set power down mod	or the first two minutes (i.e. twice nd then work again for another t W*****,026,XX de when the tracker is inactive (s	e of acquisition ti two minutes W0000000 stationary) for a	ime) and then shut down for ONE minute (i 0,026,10
[2] In Level II The GPS module will be working for equivalent to acquisition time), an Power Down Remarks: to set power down mode In Power Down mode, GPS stops w	or the first two minutes (i.e. twice and then work again for another the W******,026,XX de when the tracker is inactive (so working and GSM enters sleep an	e of acquisition ti two minutes W0000000 stationary) for a	ime) and then shut down for ONE minute (i),026,10 a period of time.
[2] In Level II The GPS module will be working for equivalent to acquisition time), an Power Down Remarks: to set power down mod In Power Down mode, GPS stops w ncoming calls, movement or input	or the first two minutes (i.e. twice and then work again for another the W******,026,XX de when the tracker is inactive (so working and GSM enters sleep an	e of acquisition ti two minutes W0000000 stationary) for a	ime) and then shut down for ONE minute (i),026,10 a period of time.
[2] In Level II The GPS module will be working for equivalent to acquisition time), an Power Down Remarks: to set power down mode In Power Down mode, GPS stops with ncoming calls, movement or input XX=00, to turn off this function.	or the first two minutes (i.e. twice and then work again for another the W******,026,XX de when the tracker is inactive (so working and GSM enters sleep an ut changes.	e of acquisition ti two minutes W0000000 stationary) for a nd stop sending	ime) and then shut down for ONE minute (i 0,026,10 a period of time. out message until it is activated by messag
[2] In Level II The GPS module will be working for equivalent to acquisition time), an Power Down Remarks: to set power down mod In Power Down mode, GPS stops with incoming calls, movement or input XX=00, to turn off this function. XX=01~99, to turn on Power Dow	or the first two minutes (i.e. twice and then work again for another to W******,026,XX de when the tracker is inactive (s working and GSM enters sleep an ut changes.	e of acquisition ti two minutes W0000000 stationary) for a nd stop sending ing inactive. It i	ime) and then shut down for ONE minute (i),026,10 a period of time. out message until it is activated by messag s in unit of minute.
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=0, to turn off this function. =[1, 65535] to set time difference in minute to GMT. rr those ahead of GMT, just input the time difference in minute directly. For example, G is required for those behind GMT. For example, W000000,032,-120. et SMS Initials W******,033,P,Char W000000,033,1,h et SMS Initials W******,033,P,Char W000000,033,1,h et sms: this command is to set initial characters for SOS message when SOS/IN1, Butt P=3, C button/ P=1, SOS button/Input1 P=2, B button/Input2 P=3, C button/ ar is the character in SOS message and max 32 characters and defaulted as: 1 SOS Alarm1 2 Cry For Help1 3 Call The Polic et Prefix (Country Code) W*******,502,*Data# W000000,502,*+4 emarks: be advised caution in this setting. Normally, your country code (for example in C 6ded and displayed prior to a phone number when sending SMS. In this case, you don't he oblie phone. ata: max 10 digits ************************************	
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Is required for those behind GMT. For example, W000000,032,-120. et SMS Initials W******,033,P,Char W000000,033,1,h amarks: this command is to set initial characters for SOS message when SOS/IN1, But P=1, SOS button/Input1 P=2, B button/Input2 P=3, C button/ har is the character in SOS message and max 32 characters and defaulted as: 1 SOS Alarm! 2 Cry For Help! 3 Call The Polic et Prefix (Country Code) W******,502,*Data# W000000,502,*+4 amarks: be advised caution in this setting. Normally, your country code (for example in C ded and displayed prior to a phone number when sending SMS. In this case, you don't ha add is not added, you are required to input the country code, for example, +86, to enable t oblic phone. ata: max 10 digits et Version No. and Serial No. W******,600 W000000,600 emarks: to get IMEI of the tracker et IMEI W******,601 W000000,901### amarks: to reboot the GSM module of the tracker eboot GSM W******,901### W000000,902### amarks: to reboot the GPS module of the tracker et inter is to reboot the GPS module of the tracker initialization W******,990,099### W000000,990,095 emarks: Turn on the device, press the SOS button for five times continuously and then s the tracker to make all settings (except for the password) back to factory default. ## is the ending character.	
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emarks: In case you forget your password, turn on the tracker, press the SOS button for fiv	e times continuously and then sen

Annex 2. Troubleshooting

Problem: Unit will not turn on	
Possible Cause:	Resolution:
Wiring was not connected properly	Check and make sure wiring connection is in order.
Battery needs charging	Recharge battery
Problem: Unit will not respond to SMS	
Possible Cause:	Resolution:
GSM antenna was not installed properly	Make VT310 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	Cancel sleeping mode
Wrong password in your SMS or wrong SMS	Write correct password or SMS format
format	
The SIM in VT310 has run out of credit	Replace or top up the SIM card
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.
Error connecting GSM antenna	Make sure the GSM antenna is connected to the GSM interface.
Problem: SMS received starts with 'Last	,
Possible Cause:	Resolution:
Unit does not have clear view of the sky	Move the antenna of the unit to a location where the sky is visible.
VT310 is in an inner place	Wait for the target to come out
Battery is low	Recharge the unit and the GPS will start working.
Error connecting GPS antenna	Make sure the GPS antenna is connected to the GPS interface.
Problem: Unit Fails to Connect to Server v	via GPRS
Possible Cause:	Resolution:
SIM card in VT310 does not support GPRS	Enable SIM card GPRS function.
function	
GPRS function of VT310 is turned off	Turn on GPRS function of VT310.
Incorrect IP address or PORT	Get the right IP address and PORT and reset to VT310.
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. We will be pleased to help you.