MT100/MT100G

Personal Device

User Manual

V1.0



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1. Products overview

Thanks for purchasing our product!

MT-100 is an industry waterproof (IP67), small, light device.

MT-100 is specially designed for outdoor staff, children, old man, disabled people and pet. Built-in industrial GPS module, GPRS module, ARM processor, GPRS module for positioning data from the GPS module through mobile phone text messages sent to the authorized phone, it will show its exact position or by free Google map or Google map for location tracking directly. Meanwhile, also can send the data to the server via GPRS, the user can login to the server to view the track playback and find the position.

Feature and function:

- ◆Waterproof IP67
- ♦SMS and GPRS TCP/UDP Communication
- ◆Support up to 5 authorized cell phone numbers
- ◆Support two-way voice communication
- ◆Safe guard mode (long battery standby time)
- ◆Track on demand
- ◆Support headset
- ◆Support voice surveillance
- ◆Track by time interval
- ♦Geo-fence zones control
- ♦Spot Alarm
- ◆No motion Alarm
- ♦SOS button for immediate rescue and alarm
- ◆Speed limit alarm
- ◆Low battery alarm
- ◆Vibration alarm
- ◆Shock alarm (G-sensor) optional
- ◆Data Logger (for storing data during no GSM signal)
- ♦Micro SD card (Max: 2GB) micro SD card optional
- ◆Support bracelet-off alarm
- ◆Hit Alarm
- ◆Power saving Mode
- ◆Support charger on and charger off alarm
- ◆Support long battery standby time

2. Specifications

Items	Specification		
Charging Voltage	DC 4.8-5.5V/500mA		
Battery	Rechargeable, lithium-polymer battery 900mAh battery 3.7V,		
Dimension	61x49x21.75mm		
Weight	67g		
Operating Temperature	-25°C to 60°C (-40°C special battery by request)		
Operating humidity	5% to 95% Non-condensing		
GSM Module	Quad Band GSM 850/900/1800/1900MHz		
GPS Chipset	U-blox GPS/Telit (Glonass+GPS) MT-100G		
GPS Sensitivity	Track& navigation: -161db		
	Hot Start: -157db		
	Cold start: -147 dB		
GPS Frequency	L1: 1575.42 +/- 10 MHz		
C/A Code	1.023 MHz chip rate		
Channels	50 channel all-in-view tracking		
Position Accuracy	< 10 m 2D RMS		
Velocity Accuracy	0.1 M/S		
Time Accuracy	1 us synchronized to GPS time		
Reacquisition	0.1 ms		
Hot Start	1 s (average)		
Assist Start <3s			
Cold Start	39 s (average)		
Max Altitude	5000m		
Max Speed	500m/s		
Acceleration Limit	< 4G (gravity)		
Work Time:	Send GPRS data every 1 minutes, work 18 hours		
It is for indication only it	Send GPRS data every 3 minutes, work 37 hours		
depends on the satellite	Send GPRS data every 5 minutes, work 45 hours		
signal strength and GSM	Send GPRS data every 10 minutes, work 60 hours		
network condition.			
Standby Time	Standard standby time (position is updated every 10 minutes) - 96 hours		
	Safeguard mode - 7 days.		
Memory	Max: 2GB micro SD card (optional)		
LED	Red LED: Power charging Yellow LED: Fully charged		
	GSM LED: Red GPS LED: Green		
Buttons	SOS button: help request with coordinates		
	Power button: to turn on/off the device		
	Call button: for answering incoming call, to call out.		

3. Overview

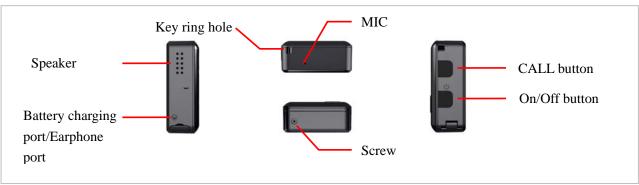
3.1. What is in the package

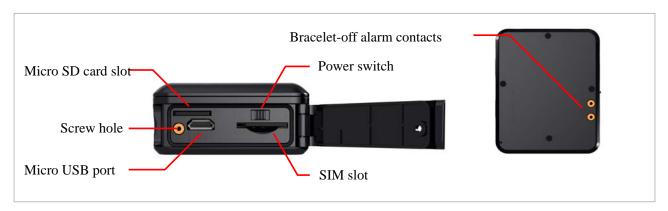




3.2. LED status, ports and buttons description







Blue LED — GSM LED			
Blue LED flashing 0.5s on & 0.5s off	Initialization/can not registered to network		
Blue LED flashing 1s on & 3s off	Registered to GSM network		
Red /Yellow LED — Power LED			
The red LED is always on	Charging		
The red LED turn Yellow	Fully charged		
Green LED — GPS LED			
Green LED flashing 1s on & 3s off	GPS/Glonass fixed		
Green LED flashing 1s on & 1s off	GPS/Glonass signal search		
Button			
On/Off button	Press for 3s to turn on/turn off		
CALL button	Press for 1s to pick up a call, press for 3s to call to		
	an authorized number		
SOS button	Press it for 3s to send an alarm SMS with		
	coordinates		
Under the cover slots and switch			
Main power switch	Slide switch to ON position to power on device		
SIM card and micro SD card slots	Insert SIM and micro SD card		
Micro USB port	To setup the parameter and firmware upgrade		
	(when connected to the micro USB port DO NOT		
	connect charger to the charging port/earphone		
	port)		

3.3. Getting started

Please read this manual before using MT-100 and check if all parts are in the box.

3.4.1 Prepare a GSM SIM card

Please make sure SIM card has enough credit (test if it's able to call out or send SMS through a mobile phone).

Please make sure that the SIM is not locked and do not require a password to operate.

Please make sure the SIM card is supporting caller ID display (specific to a country or provider's regulations).

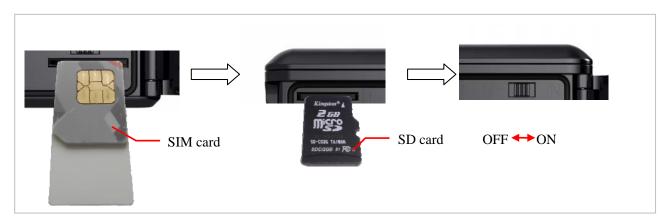
- 3.4.2 Insert SIM/micro SD card and switch on the main power
- Twist off the screws and then open the cover In order to take the SIM card out of the slot more easier



-- Attach supplied sticker onto the back of the SIM card, as follow:

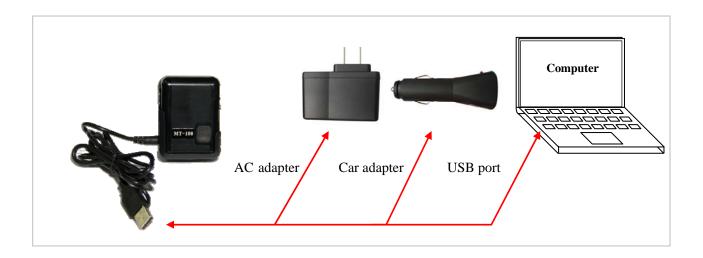


- Insert a SIM card, and micro SD card (optional), and switch on the main power



- Close the cover and seal it up with the screw
- **3.43** When using MT-100 for the first time please charge the battery for at least for 3 hours with the main power switched off. There are three ways to charge: using supplied AC adapter, car adapter, and connecting USB charging cable to USB port of any computer.

(Note: Please turn off the device when charging!)



Remark:

For better reception of GPS/Glonass signal at cold start make sure MT-100 front side is up to the open sky.

-- If the device operates normally and receives the GPS/Glonass signal the blue LED flashes 1s on & 3s off; the green GSM LED flashes 1s on & 3s off

SMS instruction and function applications

There are three ways to set up the tracker: SMS command, server command and computer interface.

Notice:

All changes to setup require a password. Make sure that you are using correct password otherwise changes will be rejected. Factory default password is 123456.

SMS commands are not case sensitive; they can be both in capital or small letters.

3.4. Change password

For example:

Command: FACID,123456,PASSWORD,V=888888

You receive SMS reply: FACID password ok!

123456 is the factory default password, 888888 is the new one.

Remark:

Password is always SIX DIGITS!

3.5. Authorization

MT-100 supports up to 5 authorized telephone numbers, which you can set at your choice. To receive alarms and calls from MT-100 you have to set at least one authorized telephone number. If no any authorized number is set the device cannot send out any alarm SMS (but you still can receive alarms through GPRS, if set) and cannot call out

Command:

FACID, 123456, AUTHORIZE, 1=13145826121, 2=13145826122, 3=13145826123, 4=13145826124, 5=13145826125

SMS reply: FACID authorize ok!

You can set all five telephones numbers with one SMS

Cancel this command:

FACID, 123456, AUTHORIZE

3.6. Call-in Scenario

Call for location mode:

If the tracker is in operation you can get SMS with its current location by dialing from an authorized telephone to the tracker.

Call for location - SMS format

The call for location mode can be activated when in SMS for location/Listen Surveillance/Call mode!

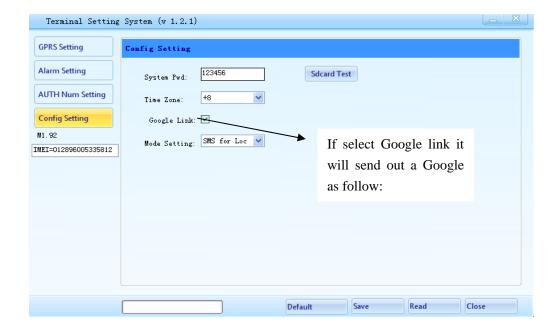
Remark: Call mode (p-9)/ Listen Surveillance (p-10)/ SMS for location (p-13)

You can call from an authorized telephone to MT-100 and it returns SMS with its current position. If device is out of sky and cannot fix position it will return the last fixed position and LBS link.

There are three types of SMS with position:

1. MT-100 can not fix position – there will link to LBS map (accuracy is low up to 2km) :::

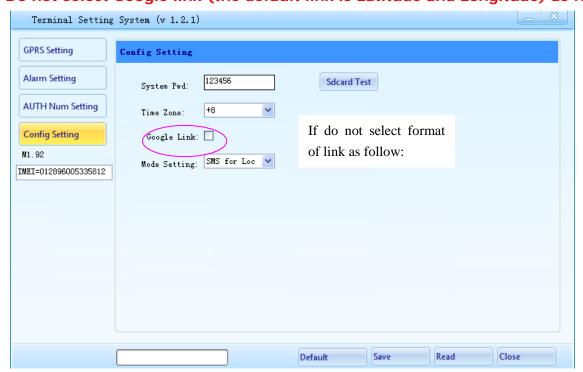
If Google link selected:



***http://maps.google.com/maps?f=q&hl=en&q=loc:22.6368 38,114.033022&SP:2.78 15/10/12 18:47 BAT=100% SGL:LAST imei:012896005330524 GPS:2

2. SGL= LAST (Cannot fix current position and send out the last fixed GPS position)

Do not select Google link (the default link is Latitude and Longitude) as follow:



***lat:22.638353Nlong:114.032840E,SP:0.56,13/10/12 11:55,BAT=64%,SGL:CUR,,GPS:4,,460,01,2531,636B

3. SGL: CUR (Current GPS position)

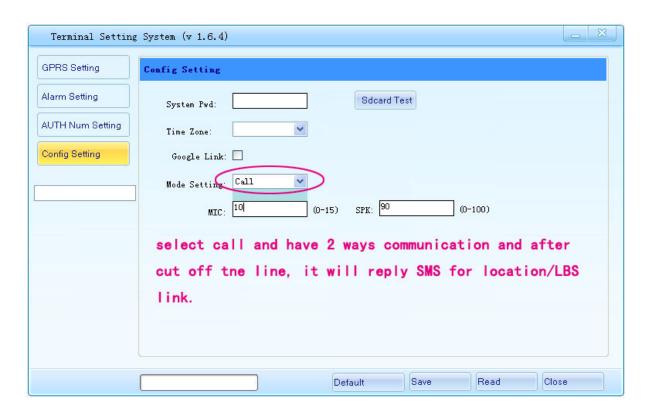
Remark:

For the above SMS format description please refer to the SMS format table Command:

FACID,123456,MODE,Tracker

◆Call mode:





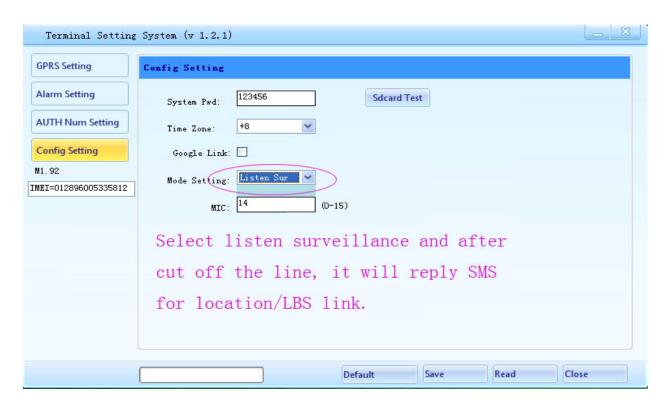
If you choose "Call" in PC software or send this command FACID,123456,MODE,CALL by SMS to MT-100. You can answer incoming calls on MT-100 by pressing for 1s the Call button. To ensure call quality, it's better to chose 10 for MIC sensitivity.

To call to an authorized number press the Call button fro 3s; if the first authorized number is not answering or is switched off MT-100 it will call to the second number and so on. It will keep calling until any number will answer or **you can hang up by pressing Call button** again.

Remark:

Please use earphone in a noisy surrounding.

3.7. Surveillance mode



If you choose "ListenSur" in PC software or send by SMS this command - FACID,123456,MODE,Monitor to the device MT-100 will switch to the surveillance mode. When in this mode the device will answer incoming call from an authorized number automatically without vibration or sound signal and you can monitor surroundings.

The speaker is mute automatically in surveillance mode.

3.8. Safe guard mode (long battery standby time)

If you only set authorized number and GPS interval without any other setting MT-100 can standby for 7 days. GPS is switched off and GSM is in power saving mode. Device will only fix position in case of SOS button is pressed for 3s; outgoing or incoming call from/to MT-100; call for location and battery low alarm (if set). GPS interval must be set 610000s or longer to activate this mode.

Command:

FACID, 123456, config, gpsautosearch = 610000 (0—9999999s)

The user can set interval time more than 610000s

To cancel this command:

FACID, 123456, config

When MT-100 is in safeguard mode you can get its current position by calling to it from an authorized number.

3.9. Schedule Mode (setup operation time)

You can set time when MT-100 starts and finishes to operate.

For example:

FACID,123456,config,poweron1=15:10,poweroff1=15:55,poweron2=18:10,poweroff2=1

8:55,poweren=1

Poweron1=1 15:10 start time

Poweroff1=1 15:55 end time

Poweron2=1 15:10 start time

Poweroff2=1 15:55 end time

Poweren=1 start this function

To cancel this command:

FACID, 123456, config poweren=0

3.10. Current position request

If you have not set interval to receive position automatically through SMS or GPRS you can request current position of the tracker by sending following command either from mobile phone by SMS or from a server (consult your administrator):

FACID, 123456, SMS, FAST

If send from a mobile phone you will get two SMS:

1. FACID SMS ok! - confirmation

2. * * * lat: 22.638353Nlong: 114.032840E, SP: 0.56, 13/10/12

11:55,BAT=64%,SGL:CUR,,GPS:4,,460,01,2531,636B – position and sensors data

(Above format is if you have not selected Google link on setup interface as described in 3.6)

If request is sent from the server you will get following return message from MT-100: FACID SMS ok!

STX,123456,\$GPRMC,000336.000,A,2238.2380,N,11401.9756,E,0.74,321.80,010109,,, A*60,L,,imei:012896005337776,05,068.47,Battery=100%,,1,460,01,2531,636B;79

3.11. GPRS

To send data through GPRS to server you have to set GPRS and server parameters

Step 1: Setup GPRS parameter

SMS: FACID, 123456, GPRS, ADDR=219.133.34.184, PORT=8000, NAME=Jack, PASS=00000 0, APN=CMNET, ID=012896005337577, MODE=0, HBE=0, HBN=HI, HBI=50, HBT=100, HBR=1

Where following parameters are:

ADDR=IP of the server (0-31 chars)

PORT=server's port (0-65535)

NAME=for example: Jack (Available APN name if any. If no name - leave it blank)

Pass=password (correct password 0-31 chars if any. If no name - leave it blank)

APN=local carrier APN (access point name 0-37 chars)

ID=device's identifier (0-19 chars, usually tracker's IMEI)

MODE=1/0 use UDP/TCP protocol

HBE=1/0 use enable/disable heartbeat

HBN=text message of heartbeat (0-15 chars)

HBI=heartbeat time interval in second (0-65535)

HBT=total times of heartbeat messages (0-999), if T=999 sending continuously

HBR=1/0 use enable/disable the restart the GPRS module

To cancel setting:

FACID, 123456, GPRS

Step 2: Time interval

You can set an interval at which you wish to receive tracker's data automatically by sending following command:

FACID, 123456, LOC, I=60, T=20, L=45

LOC: position command

I=60, time interval is 60s (10-65535).

T=20, sending 20 times, if T=999 sending continuously

L=45, distance. Tracker will not send data if the travelled distance during above set time

interval is less than 45 meter. If L=0 data will be sent only according to time interval set.

To cancel these settings:

FACID, 123456, LOC

To save GPRS traffic or SMS charges you may set a longer interval in case if the tracker is not moving

An example of the command:

FACID, 123456, loc, acci = 300 (0—65535s)

If no movement is detected MT-100 will send data every 300s instead of 60s.

PLEASE NOTE: You cannot receive data at the preset interval simultaneously by SMS and to the server. If GPRS is set, you will receive data only to the server. To receive data to a mobile phone at preset interval by SMS you MUST cancel GPRS settings.

3.12. Remote restart

If you need to restart tracker remotely you can send following command: FACID,123456,RESTART

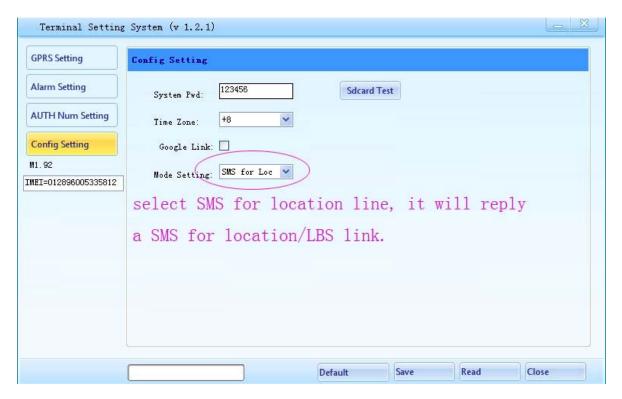
3.13. Restore default settings

To restore factory setting of the tracker send following command:

FACID, 123456, DEFAULT

SMS reply: FACID default ok!

3.14. SMS format setting



You can choose either of two formats:

1. For normal mobile phone without internet connection you can receive coordinates and tracker status in a text mode. To set this format to send following command:

FACID, 123456, SMS, text

2. For Internet enabled phones (smartphones) you can receive data with link to GoogleMap so you can see the tracker location on you smartphone on the map by clicking on the link, Command: FACID,123456,SMS,link

3.15. Time zone

To set your local time zone please use command as below. Default time zone is GMT +8. FACID,123456,TIME,ZONE,V=+9

(-12,-11,-10,-9,-8,-7,-6,-5,-4.5,-4,-3.5,-3,-2,-1,0,+1,+2,+3,+3.5,+4,+4.5,+5,+5.5,+6.5,+6,+7,+8,+9,+9.5,+10,+11,+12,+13)

3.16. SD card testing

If the micro SD card is inserted, the device will store all the GPS data to the memory when there is no GSM signal, and MT-100 will send out the GPS data when the tracker is reconnected to the network. To test if the card is working properly you may send a test command:

FACID, 123456, SDCARD, TEST

SMS reply: FACID sdcard ok or FACID sdcard fail

If test returned "fail" please check the card or repeat the test.

.

If set authorized number, the device will send two SMS alarm. A LBSLINK SMS will be sent out immediately, and then a real-time SMS (Common format/GOOGLELINK) will be sent out.

3.17. Over speed alarm

If you wish to receive warning in case the tracker is moving at a speed over some limit you can set the speed limit and once the tracker's speed is over the limit you will receive warning message. Please note that you will receive second warning message once the tracker's speed will be again below the limit.

For example:

FACID, 123456, OV, L=50

L=50 - limit is set 50km/h (max 65535km/h)

To cancel this setting:

FACID, 123456, OV

Normally speed detected by GPS/Glonass is 1-2s delayed.

3.18. Geo-fence zone setting

To receive warning when the tracker is leaving or entering geo-fence zone you can set a rectangular zone by the following command:

FACID,123456,GEOFENCE,A1=113.000000e/22.000000n,A2=114.000000e/23.000000n,B1=113.000000e/22.000000n,B2=114.000000e/23.000000n,C1=113.000000e/22.0000000n,C2=114.000000e/23.000000n,D1=113.000000e/22.000000n,D2=114.000000e/23.000000n,E1=113.000000e/23.000000n

Where point A1/B1/C1/D1/E1 is a left upper point of the rectangle's diagonal and point A2/B2/C2/D2/E2 is the right lower point of the diagonal.

To cancel this setting:

FACID, 123456, GEOFENCE

3.19. Spot alarm

You can set a zone (spot area) around MT-100. And you will receive warning message if the

tracker is leaving or entering the area.

FACID, 123456, MOVE, L=200

L=200 - radius of the circle (max 65535m).

The center of the circle is the first point fixed by the tracker after the above command has been sent.

To cancel this setting:

FACID, 123456, MOVE

3.20. Vibration alarm

You can set movement, vibration and shock alarm if you wish to receive warning if the tracker starts to move or dropped by sending following command:

FACID, 123456, VIB, L=5

L= sensitivity of G-sensor (1-10). You can set 1 if you wish to receive warning if only sharp and strong shock is detected or 10 to receive warning if any slight movement occurred.

To cancel this setting:

FACID,123456,VIB

3.21. Low power alarm

You will receive a warning message if the battery power is below 30%. This is default setting and there is no need to set.

3.22. SOS alarm

Description: When the SOS button is pressed for 3 seconds (keep on pressing without release until the blue LED changes from on to off), the device will send an SMS alarm to authorized phone number and send this alarm to server if GPRS is connected.

Note: there is no need to set this function.

3.23. Bracelet-off alarm (only with a specially designed bracelet or belt)

You will receive a warning message in case if the bracelet (belt) lock is opened or the bracelet (belt) is cut. This option is only available by special request. Manual for using MT-100 with the bracelet (belt) is a separate brochure.

3.24. Hit alarm

You will receive a warning message in case if the device suffered a hit by sending following command:

FACID, 123456, GSensor, L=40, hit=40

L=40 shock sensitivity (0-50)

hit=40 hit detection sensitivity (0-50)

(Note: if hit>0, the setting if L is invalid.)

3.25. Power saving Mode

In power saving mode, you will receive message once an hour when the device is motionless or receive normally when it is moving by sending the following command:

FACID,123456,LOC,SHAKE=1

SHAKE=0 enable vibration alarm

SHAKE=1 disable vibration alarm and enable power saving mode

4. Troubleshooting

Malfunction: the device cannot be switched on			
Possible Cause	Solution		
Main power switch is in OFF position	Open the cover and slide the switch to ON position		
Power button is not pressed	Please press and hold power button for 3s to switch		
	on tracker		
Battery discharged	Please charge the device for 3 hours		
Malfunction: The device does not reply to SMS			
Possible cause	Solution		
MT-100 unable to register to the GSM	Move the device to an area with good GSM signal		
network (LED flashes: 0.5s on & 0.5s	coverage.		
off)	Please check SIM card, if necessary, re-insert SIM		
	card again.		
	Please check by using a mobile phone if SIM card		
	has enough balance, is not locked or damaged.		
GSM network is overloaded	Wait for message for few minutes. GSM network		
	may be overloaded in crowded areas or during		
	some emergency.		
Authorized number is not set or is	Please check if authorized telephone number is set		
incorrect	and the number is correct		

Balance of SIM card is low or SIM card	Please check by using a mobile phone if SIM card		
is locked	has enough balance, is not locked or damaged.		
Malfunction: GPS/Glonass is not fit	xed for long time (Green LED: 1s on & 1s off)		
Possible cause	Solution		
Satellites signal is too low or	For cold start make sure that the tracker is in open		
unavailable	sky area and its front is up to the sky.		
	If in the building move tracker text to the window.		
	Narrow street with tall buildings, heavy rain can		
	affect normal reception.		
Fault: The device fails to connect to	server via GPRS		
Possible cause	Solution		
SIM card data (GPRS) feature is not	Enable SIM card data – check with GSM provider		
enabled			
GPRS parameters of the tracker are	Set GPRS parameters and enable GPRS data		
not set and enabled	transfer		
Incorrect IP address or PORT	Check correct IP and port with your system		
	administrator or service provider		
GSM signal is weak	Move to a better reception area		

5. SMS format table

version	Rived text	Suitable model	Modified date
V1.0	The factory version	MT100/MT100G	2013-4-18
	VCI SIOTI		

SMS data is sent to the cell phone (authorized number) by the device.



There are three SMS data formats: Latitude and longitude format, Google link format and LBS connect format.

♦Latitude and longitude format:

For example:

lat:22.545911Nlong:114.079061E,SP:0.00,20/08/10 14:25,BAT=89%,0,SGL:CUR,alarm,GNS:2,GPS:8,117.0,460,00,2795,0E6A

Data explanation:

What you see	Explanation		
lat: 22.545911N	Latitude		
long: 114.079061E	Longitude		
SP: 0.00	Speed (if no movement =0.00)		
20/08/10 14:25 Date and		Date and time	
BAT=89%	Battery power left		
0	Battery status – 0=discharging; 1=charging		
SGL:CUR	SGL: CUR	Current GPS Data	
	SGL:LAST	Last fixed GPS Data	

"Alarm": parameters

It will reply a indication characters to those parameters.

lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR,Movein,GNS: 2,GPS: 8,17.0,460,00,2795,0E6A

lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR,Moveout,GNS: 2,GPS: 8,17.0,460,00,279 5,0E6A

lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR,Geoin,GNS: 2,GPS: 8,17.0,460,00,2795,0 E6A

lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR,Geoout,GNS: 2,GPS: 8,17.0,460,00,2795,0E6A

lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR, Over-speed, GNS: 2,GPS: 8,17.0,460,00,2795,0E6A

lat: 22.545911Nlong: 114.079061E,SP: 0.

Alarm information, as follow:

Alarm Indication	Explanation
Movein	Moved into spot area
Moveout	Moved out of spot area
Geoin	Moved into geo-fence zone
Geoout	Moved Out of geo-fence zone
Over-Speed	Speed exceeded the limit
Low-Speed	Speed is back below the limit

00,20/08/1014:25,BAT=89%,0,SGL:CUR ,Low-speed,GNS:2,GPS:8,17.0,460,00,2 795,0E6A	Help SOS button is pressed more than 3s		
lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR ,Help,GNS: 2,GPS: 8,17.0,460,00,2795,0E	VIB G-sensor detect movement according to preset level		
6A	LowBattery Battery is less than 30%		
lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR			
,VIB,GNS:2,GPS:8,17.0,460,00,2795,0E 6A	ChargerOn The charging device is connected		
lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR			
,LowBattery,GNS:2,GPS:8,17.0,460,00,2 795,0E6A	ChargerOff The Charging device is disconnected		
lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR			
,Belton,GNS:2,GPS:8,17.0,460,00,2795, 0E6A	Belton MT100 connected to the bracelet		
lat: 22.545911Nlong: 114.079061E,SP: 0. 00,20/08/1014: 25,BAT=89%,0,SGL: CUR,Beltoff,GNS: 2,GPS: 8,17.0,460,00,2795,	Beltoff MT100 disconnected from the bracelet		
OE6A	Hit MT100 suffered a hit		
GNS: 2	Number of valid GLONASS satellite		
GPS:8	Number of valid GPS satellite		
117.0	Altitude (unit: meter)		
460	MCC (mobile country code)		
00	MNC (mobile network code)		
2795	LAC (location area code)		
OE6A	Cell identification code		

♦Google link format:

For example:

http://maps.google.com/maps?f=q&hl=en&q=0.000000,0.000000&SP: BAT=77%

SGL: LAST GNS: 0 GPS: 0

Data explanation:

What you see	Explanation	
http://maps.google.com/maps?f=q&hl=en&q =0.000000,0.000000&SP	Google link	
BAT=77%	Battery power left	
SGL:LAST	SGL: CUR	Current GPS Data
	SGL:LAST	Last GPS Data
GNS: 0	Number of GLONASS valid satellites	
GPS: 0	Number of GPS valid satellites	

♦LBSLINK FORMAT:

http://openlbs.net/Map.aspx?t=1&i=0000000000000006&ln=00000460001&la=0952125 451&s=512x512&z=14