



RevGeoGate
Reverse Geocoding the world

Sales & Support Skype: [RevGeoGate.eu](https://www.skype.com/join/revgeogate)

Contact Information:

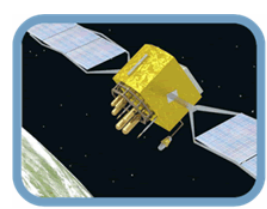
Sales@fleetplanner.be

Schoordijk 18

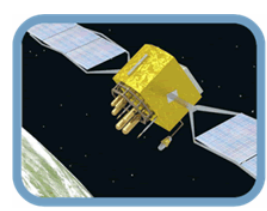
2170 Merksem, Belgium

Tel: +32 3 6453743

User Manual A906 B2
AGPS/GPS/UMTS/GSM
(Preliminary)



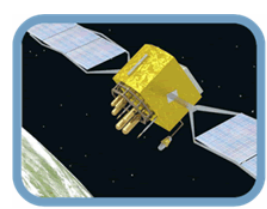
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1. Important Safety Information

Read this instruction manual carefully, in particular the safety instructions, before you begin using the device, and keep the instruction manual for future use.

- In different countries, different regulations may apply to the use of mobile phones (e.g. when driving, in hospitals, at petrol stations, in aircrafts). Note the laws for using a mobile phone in your country, and turn the device off when usage is not permitted, or when dangerous situations or interference could occur.
- Only use the device in accordance with its purpose, and only at locations where telephoning poses no dangers.
- Only use the manufacturer's power supply and battery. Inserting an unsuitable battery, or inserting the battery incorrectly, can result in the danger of explosion. The battery must not be opened or exposed to a flame.
- The operation of medical devices can be affected. The manufacturers of pacemakers recommend a minimum distance of 20 cm between the devices when the mobile phone is switched on. Do not carry the phone in your breast pocket.
- If you suspect that there has been interference between the phone and a medical device, please consult your doctor before using the phone again.
- Make sure that small children do not play with the packaging material (danger of suffocation). The device and its accessories may contain small parts that can be ingested. Special care is needed if the device is to be used in the vicinity of small children or sick or disabled people. Keep the phone out of reach of such persons. Do not leave the device unattended when it is connected to the mains power supply.
- Do not expose the device to moisture, or to extreme heat (strong, direct sunlight) or cold (permafrost). Do not drop the device, and avoid jolting, shocks and pressure.
- The phone must only be opened to replace the battery or the SIM card. Any other changes made to the device are not permitted and result in the loss of the operating licence and the guarantee.
- The phone can cause interference in the vicinity of televisions, radios and other electronic devices.



Before Operation

Accessories:

1. AGPS/GPS Tracker
2. Li-ion Battery
3. Charger
4. USB Cable
5. User Manual
6. Bracelet and Pendant accessories

Information on Disposal:

Packaging is reusable, or can be recycled. Please correctly dispose of packaging material no longer required. Should you detect any transportation damage when unpacking the device, please contact your dealer immediately.

This device may not be disposed of along with household refuse! Every consumer is obliged to deposit all electrical or electronic devices, no matter whether they contain harmful substances or not, at a collection point in his/her town or with a commercial dealer, so that it can be disposed of in an environmentally-friendly way.

Remove the battery before disposing of the device. Do not throw used batteries into the household refuse; put them in with special waste or in a collection station in a specialist shop. If you have any questions about disposal, contact your local authority or your dealer.

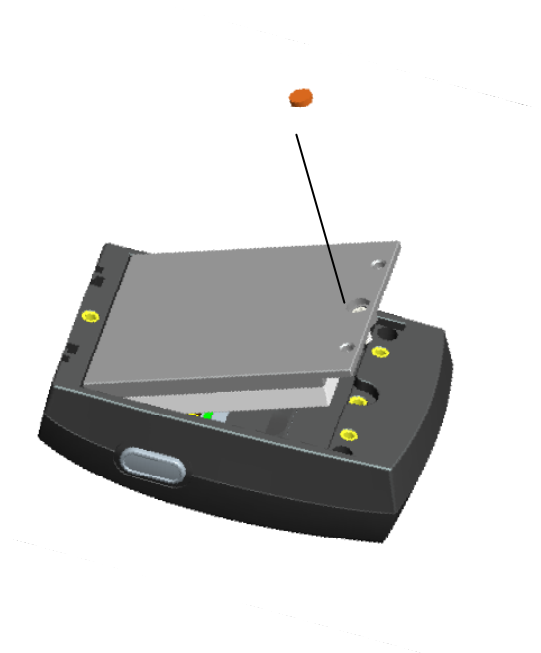


2 Getting start

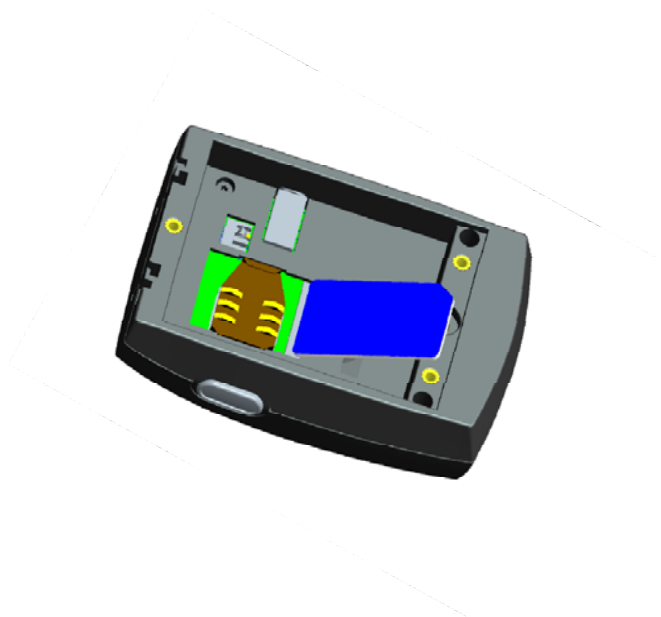
Before connecting the device to your network, make sure that you have inserted your SIM/USIM in the right direction.

2.1 Inserting the SIM/USIM Card

- take out the screw cap, loosen the screw and remove the battery pack



- insert SIM/USIM card



- attach the battery, tighten the screw and replace the screw cap



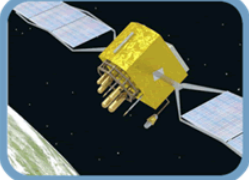
2.2 Charging the device

- Before you can use the device, you must fully charge the battery at least 3 hours under the power off condition.

- During the charging, Charge states indicate:

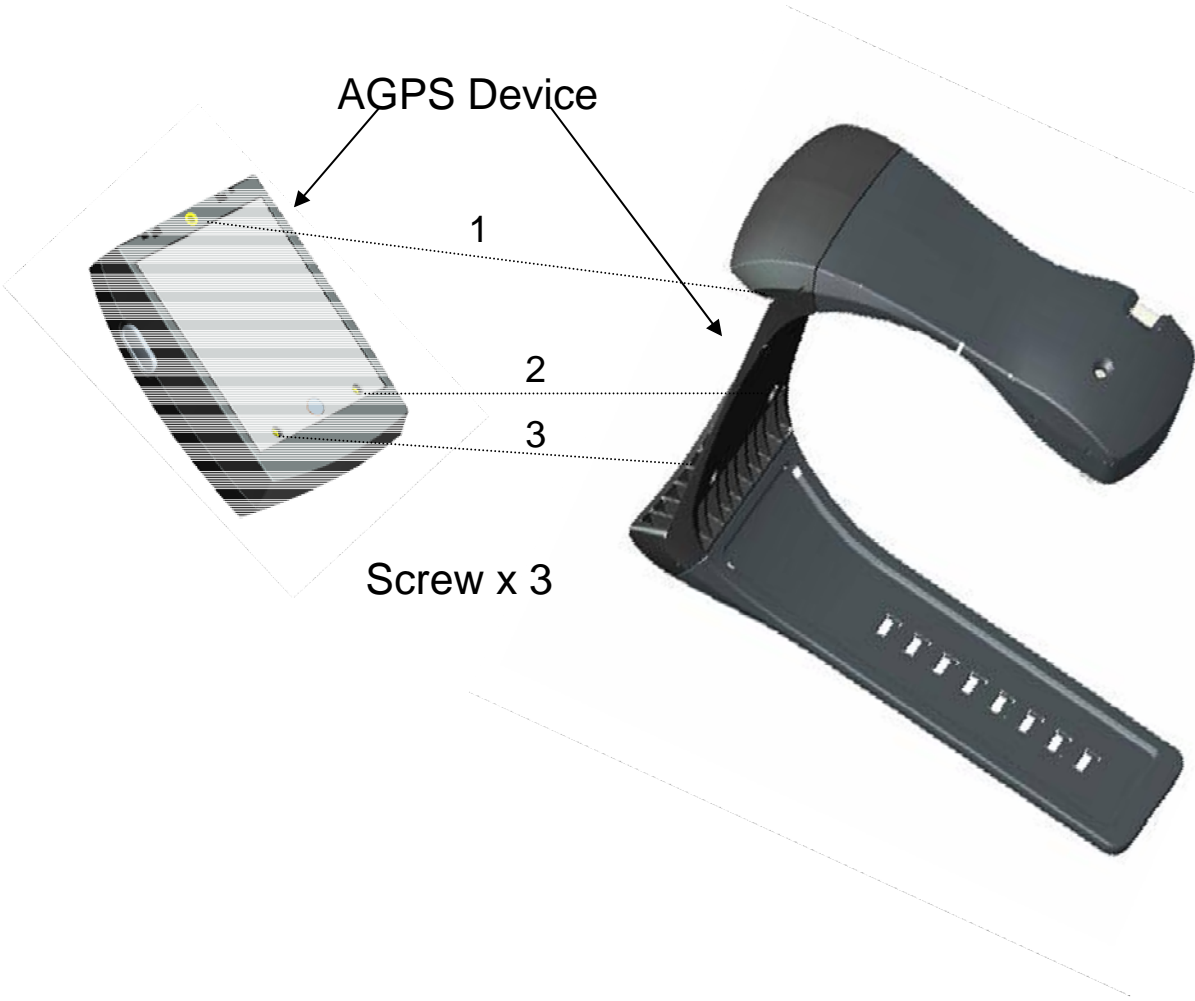
- > Red LED is double flash, it means that the device is in charging mode.
- > Red LED is off, it means that the battery is fully charged.

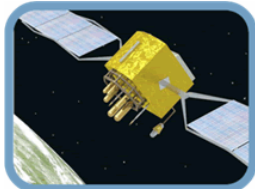




2.3 Bracelet Accessory

- Place the AGPS tracker to the bracelet as below, tighten 3 screws to fix the tracker position.





Bracelet Functions:

- Press the buckle to open the bracelet
- When key lock is tighten, the buckle cannot be opened
- The length of rubber belt is adjustable



Rubber belt adjustment process:



1



2

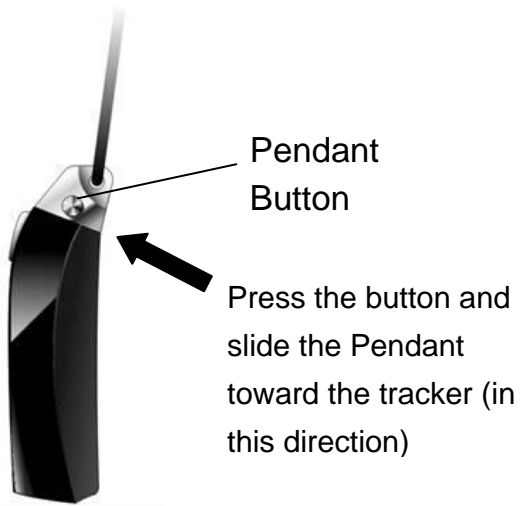


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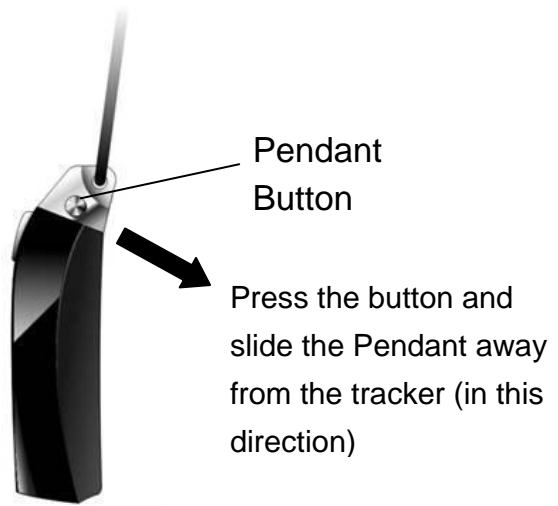


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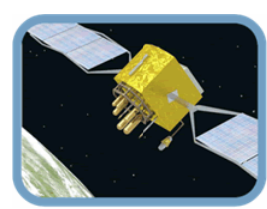
2.4 Pendant Accessory



Attachment



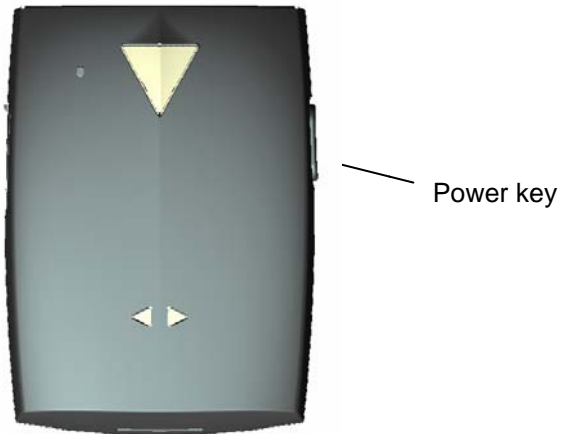
Detachment



3 Starting up

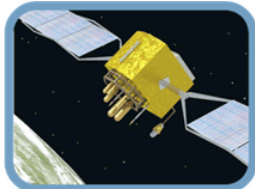
Switching on the Device

- Press the side key to switch on the device, LED will be lighted up with a power on melody



Switching off the Device

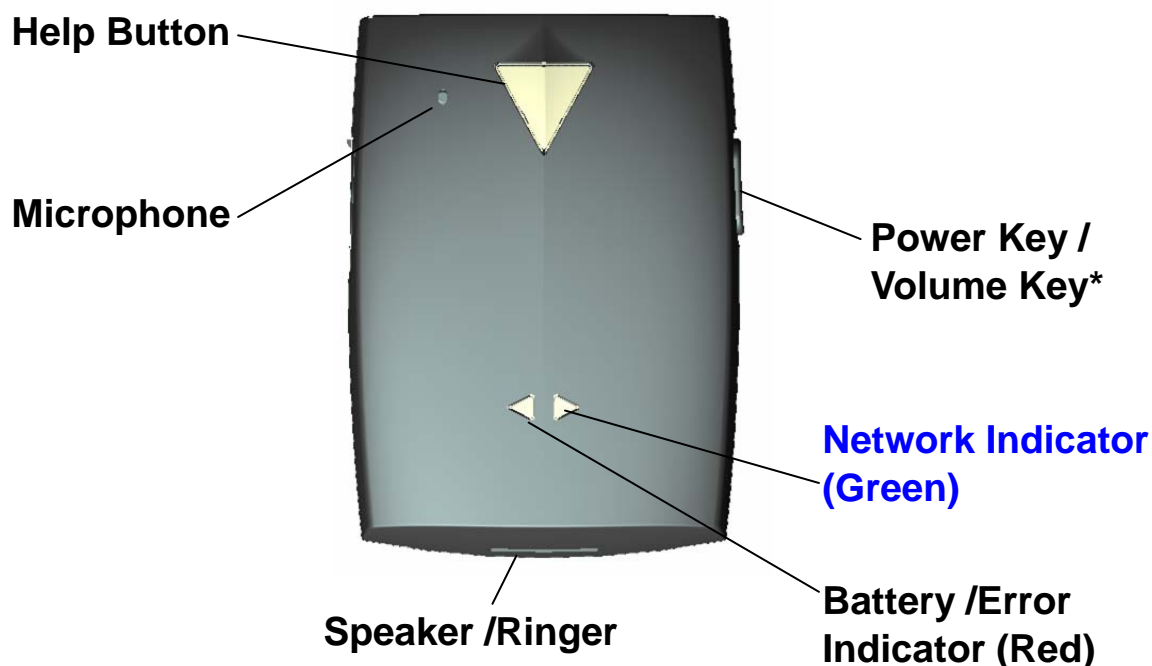
- Press and hold the side key for 3 seconds to switch off the device



3.1 User Defined Number and Settings

After you have purchased the tracker, you should customize the device's settings at once.

1. Place the tracker in an area with good 3G/2G coverage, push the side key to switch on the device.
2. The tracker starts working and searching the network (3G/2G) signal, when the tracker has found the signals, it is ready for communication and the Network indicator will flash once every five seconds. If there is no network coverage, the Network indicator will be always on.



Note: *During voice call, the Power Key can be used as Volume Key to toggle the volume between 'Hi' and 'Low' level.



3.2 LED Indication

1. There are two LED indicators in the device.
2. LED operations:

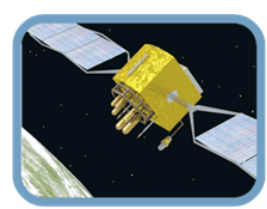
LED indications	Status	Descriptions
Battery / Error LED (Red color)	Single Flash	Low battery
	Double Flash (x2)	Charging battery
	Always on	No SIM card / SIM lock / SIM card error
	Quadruple Flash (x4)	Device not-activated
	Continuous Flash	Server configuration failure
Network LED (Green color)	Always on	Device is searching network
	Single Flash	Network registration is successful
	Quadruple Flash (x4)	Device is shutting down

3.3 Sleep mode

To preserve the battery life, some LED can be off if Sleep mode is enabled.

1. If it is enabled, device enters sleep mode when it is idle for 12 seconds.
2. In some circumstances, the LED will remain active to indicative some error status.

Situations (sleep mode on)	LED indication
Power on (without SIM card)	Red LED always on
Power on (with invalid SIM card)	Red LED always on
Power on (with valid SIM, not activated)	Red LED quadruple flash
Power on (with valid SIM, activated, network is not registered)	Green LED always on
Low battery level 1	Red LED single flash
Power off	Green LED quick flash (until the shut down process is completed)



3.4 Power on/off status notification

- If the function is activated, device performs a location fix and reports its location to the authorized party during power on and power off.
- When device powers off due to low battery cutoff, device performs a location fix before it shuts down and reports its location to the authorized party.
- If the function is de-activated, device does not perform location fix and reports its location during power on and power off.

3.5 Emergency Mode - SOS Phone Number & SMS Numbers

1. Device makes voice call to SOS Phone Numbers (up to three) when device is in emergency state.
2. Device sends alarm report SMS to all SOS SMS Numbers when device is in emergency state.
3. Emergency state can be stopped by SMS command sent from either one of the SOS SMS Numbers or authorized party. Alternatively, it can be stopped by press & hold the HELP button for 5 seconds by the device user.

3.6 Emergency Mode - RevGeo service

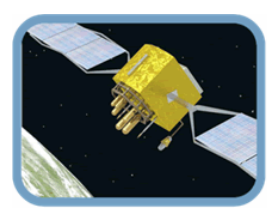
1. It is an optional feature. When the service is enabled, user will receive device's position in street level together with latitude/longitude figures.
2. If the service is disabled, the user will receive the latitude/longitude figures only.
3. For the service charge, please refer to your local service provider.

4 Operations

4.1 Location request

4.1.1 By voice call - Normal tracking mode

1. Device receives voice call from the authorized party or pre-defined users (up to five), it will wait for 3 seconds and then pick up the call. If caller doesn't drop the call in these 3 seconds, device picks the call and then ends the call immediately.
2. If the caller number is either the authorized party or pre-defined users, the device will do location fix and send acknowledgement SMS (Request is processed) to caller number
- ~~3. If device is in emergency state, the request will be ignored.~~



4.1.2 By SMS command "?>GPO" - Normal tracking mode

1. When the authorized party or pre-defined users sends a SMS command to the device, beep alert will be heard (sleep mode is disabled).
2. The device will do location fix and send acknowledgement SMS to the sender number.
3. If device is processing location request but device is suddenly triggered to emergency state, the current process will be stopped ~~and a SMS notification will be sent.~~

4.2 Emergency

1. Device enters emergency state if user presses and holds the HELP button for 3 seconds.
2. In emergency state, device is required to send first HELP alarm report via SMS, makes emergency voice calls and perform periodic location fixes at the same time.
3. SOS alert tone will be played throughout the emergency process except when voice call is active.
4. Device exits emergency state in two ways:
 - a. If user presses and holds the HELP button for 5 seconds again
 - b. If device receives "?>ASF" SMS command from either the SOS SMS Numbers or authorized party
5. In 2G network, either voice channel or data channel is available at one time. Device will use GPS method only to get location fix in order to keep voice call process and periodic location update process running at the same time.
6. In 3G network, device can use AGPS method first to get location fix even when voice call is active.
7. Device is not allowed to shut down when it is in emergency state.

4.2.1 First HELP alarm report

1. Device sends first HELP alarm report via SMS to the 3 SOS SMS numbers defined in the settings for notification its critical state.
2. If last location fix is stored on device, SMS with last position will be sent.
3. If last location fix is not stored on device, SMS without position will be sent.

4.2.2 Emergency voice call

1. Device makes emergency call one by one based to the 3 SOS phone numbers defined in settings.
2. If no one picks up the call, device will repeat the process until anyone call is picked up.
3. If at least one call is picked up, device will not repeat the process.



4.2.3 Periodic location update

1. In 2G network,
 - a. If voice call process is on-going, device only uses GPS method to get location fix.
 - b. If voice call process is finished, device uses either AGPS or GPS method to get location fix.
2. In 3G network, device uses either AGPS or GPS method to get location fix.
3. Device will send alarm report to the 3 SOS SMS numbers every 3 minutes no matter location fix is successful or failed.
4. If RevGeo service is enabled, device will send an emergency SMS alert to RevGeo server followed by each alarm report for each successful location fix.
5. If location fix is successful, current position will be sent in alarm report.
6. If location fix is failed and last position is stored on device, last position will be sent in alarm report.
7. If location fix is failed but last position is not stored on device, no position will be sent in alarm report.



Caution: During Emergency mode as described in the previous lines, the device is sending location update by SMS while the device is not exit from Emergency mode. So take care that device could consume a lot of SMS (credit) during alarm if Emergency mode is not stopped

4.2.4 Exit emergency state

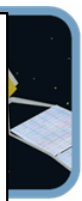
1. Device exits emergency state if user presses and holds the HELP button for 5 seconds.
2. If device receives ">ASF" command via SMS from the SOS SMS Numbers or authorized party, device replies acknowledgment SMS to the sender and exits emergency state.

4.3 Geofencing

1. For each successful location fix, device checks this location with the user-defined zones (up to 3 zones) when they are active.
2. If device is entering a zone or leaving a zone, alert SMS will be sent to the authorized party.

4.4 Auto-answer

1. Up to 5 Auto-answer number can be pre-defined for this function, when the device received an incoming call with anyone of these 5 numbers, it will pick up the voice call automatically.
2. Auto-answered call will be forced to stop if emergency state is suddenly triggered as device is required to make emergency calls.
3. During the voice call, the Power button can be used to change the volume level between 'Hi' and 'Low' level. The user can press the button to toggle the volume level (e.g. Hi > Low > Hi).



4.5 Spy mode

1. When an authorized party sends a SMS command to the device, device makes voice call to the authorized party but the device's speaker is muted.
2. Only the authorized party is allowed to perform Spy function.
3. Spy voice call will be forced to stop if emergency state is suddenly triggered as device is required to make emergency calls.
4. Spy mode will not be performed if the device is in emergency mode.

Low battery alert

Two thresholds are defined for low battery:

- low battery (alert): 35% battery remaining
- low battery (cutoff): 13% battery remaining

Low battery "alert"

1. If battery level drops to 35%, device sends low battery alert SMS once to the authorized party.
2. Device turns red LED to single flash for low battery indication even sleep mode is enabled.
3. If charger is plugged, device turns red LED to double flash for charging indication instead.

Low battery "cutoff"

1. If battery level drops to 13%, device will perform a last location fix before it shuts down.
2. If the device is power off, it will send a power off SMS to authorized party.
3. If charger is connected at this time, device turns red LED to double flash for charging indication. It will not send location report nor shut down.

Power off

When user power off the device, the green LED will be flashing until the shut-down process is completed.