

REWIRE SECURITY

104 PRO GPS TRACKER



DETAILED USER GUIDE

VER. 3

Preface

Thank you for purchasing 104-PRO Please read this manual carefully before using this product. Please note that product specifications and information in this user guide are subject to changes without prior notice. Any changes will be integrated in the latest release. The manufacturer assumes no responsibility for any errors or omissions in this document.

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I. Introduction

104 PRO can locate any remote target by using Geographic Locating System and send instant SMS or Internet reports to the user by using GSM and GPRS network. It is an ideal security solution for your vehicle as it is able to send real time alerts and it enables you to immobilise your vehicle remotely at any time.

1. Main Features

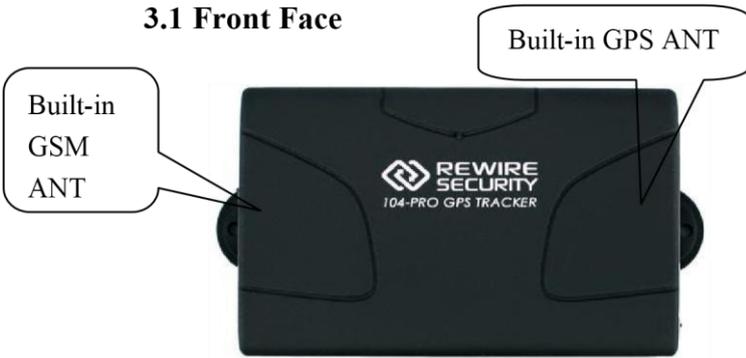
- 1.1 Inbuilt or optional external GSM/GPS antennas.
- 1.2 Built-in 6000MA battery.
- 1.3 Magnetic base.
- 1.4 Real-time tracking.
- 1.5 Movement alarm, geo-fence alarm, shock sensor alarm, remote monitoring.
- 1.6 SMS location reports with google map url link.
- 1.7 Selectable standby modes

2. Applications

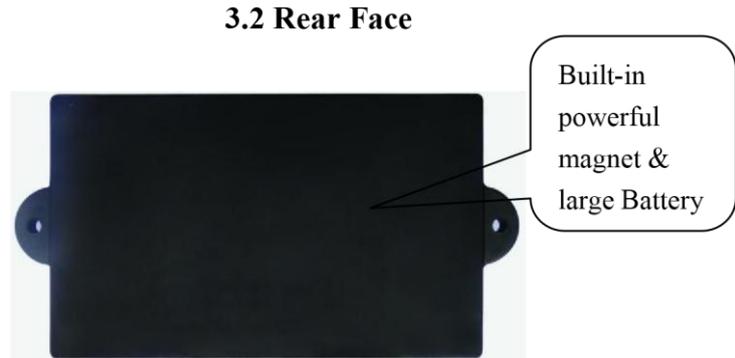
- Vehicle rental, Fleet Management
- Plant equipment tracking
- Suitable for boats, Motor homes, Caravans and Trailers.
- Vehicle security

- Cargo container & Asset tracking

3.1 Front Face

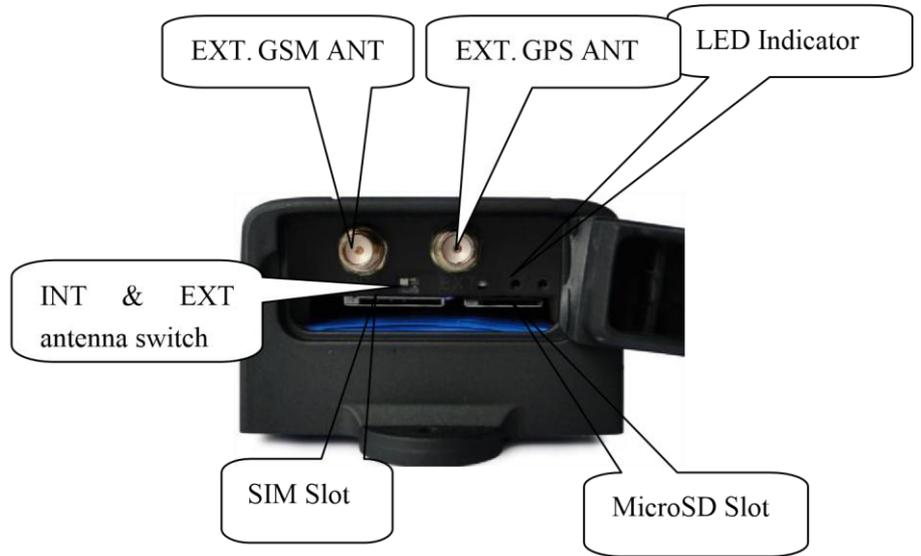


3.2 Rear Face

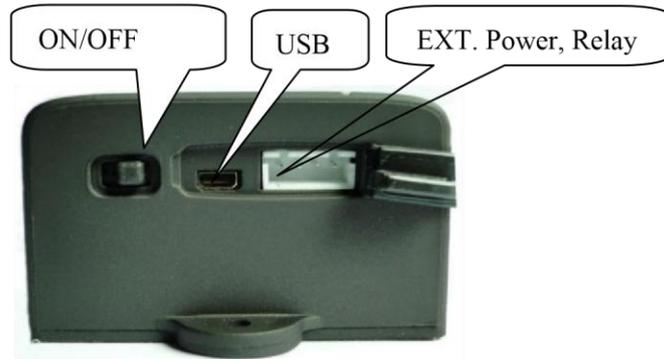


3. Hardware Description

3.3 Side Face



3.4 Side Face



3.5 Side Face



4. Accessories

No.	Pictures	Name	Specs
1		AC Adapter	Input: AC 110-220V Output DC: 1.5A, 12V
2		Cigarette lighter socket Charging adapter	12V
3		GPS Antenna	3m cable
4		GSM Antenna	2m cable
5		Harness	4PIN
6		Relay	12V/40A OR 24V/40A (12v default, 24v optional)

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5. Specifications

Content	specifications	
DIM.	94mm*60mm*38mm	
Weight	300g	
Network	GSM/GPRS	
Band	850/900/1800/1900Mhz	
GPS sensitivity	-159dBm	
GPS Accuracy	5m	
GPS Start time	Cold status	45s
	Hot status	1s
EXT. power	DC 12 V -24V	
Operating Current	Sleep Current	1.8mA
	Deep sleep	0.6mA

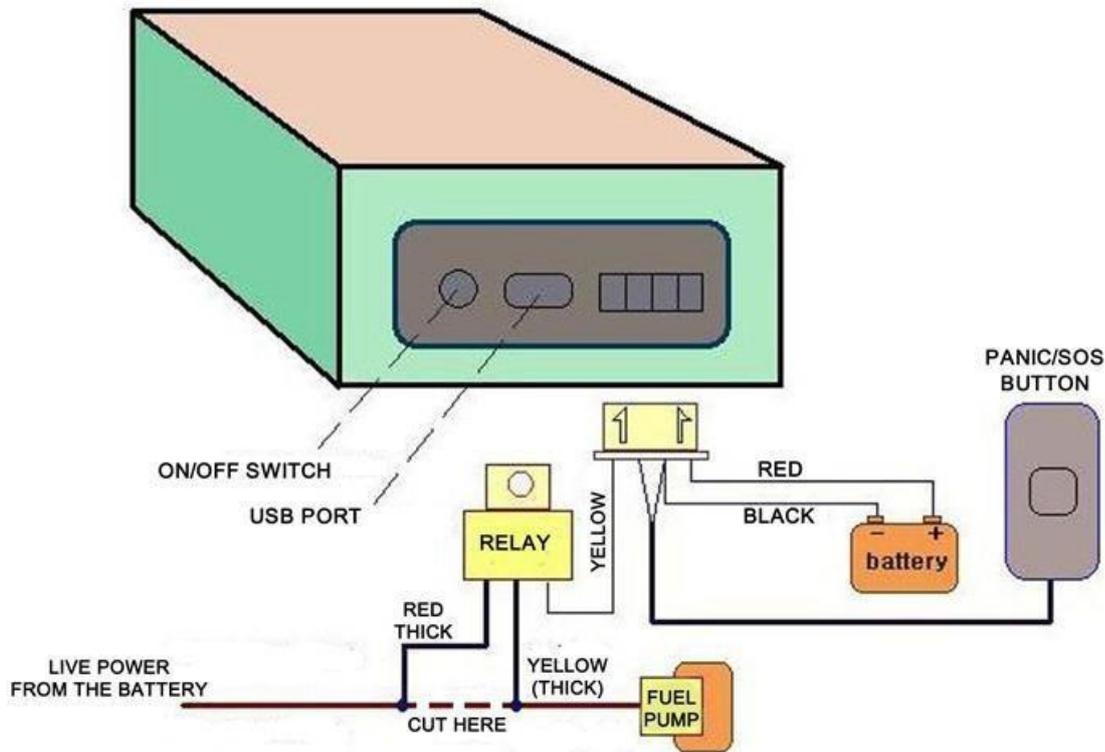
	GSM operating Current	68mA ± 3mA
	GPRS Current(data transfer)	82mA ± 10mA
Battery	3.7V 6000mA/h Polymer battery	
Charge current	1A ± 0.2A	
Charge time	7h	
Standby time	Sleep	1-2 months
	Deep sleep	4-8 months
Storage Temp.	-40°C to +85°C	
Operation Temp.	-20°C to +65°C	
Humidity	5%--95% non-condensing	

II. Installation

1. Installation

- 1.1 104-PRO can be either attached to a flat metal surface or mounted using the fixing brackets.
- 1.2 External GPS & GSM antennas are provided inside the box. These can be used to increase signal strength if required.
- 1.3 If you intend to install in humid conditions, use weatherproof pouch accessory provided.
- 1.4 For permanent vehicle installation, use the 4 pin vehicle wiring loom supplied.

WIRING DIAGRAM



2. Internal / External antenna switch

If you wish to use your 104-PRO self contained, without connecting external antennas, please move this switch to INT position (default position). If possible, use external antennas for permanent installation as these will provide more accurate signal. After installing external antennas the switch should be moved to EXT position.

3. SIM Card Installation

3.1 Please make sure that your SIM card has been activated and that PIN code request is disabled. If you are using contract SIM card and would like to use GPRS tracking, make sure your SIM card's Internet is enabled. 104-PRO will only work with standard full size sim cards. Please do not use a nano or micro sim card.



3.2 Ensure that when communicating (Call/SMS) with the tracker your phone has caller id enabled, otherwise you will not get any response.

4. Charging

Please fully charge the unit for the first use and charge as following:

4.1 Mains charge: Find the mains plug from the accessories. Connect the white JST plug into socket provided. See section 3.4

4.2 Car charge: Find the car lighter charger from the accessories and connect to car cigarette lighter.

Note: The battery should be charged between 8 - 12 hours before the first use.

After the first use, 4-5 hours should be sufficient. Red LED ON means it's being charged, LED OFF means fully charged.

III. Functions

Note: With SMS text message commands, you will notice that we have used “+” and “space” between some words;

“+” between two words means they should be written as one word, with no spaces between. "space" between two words means you should leave one character space.

e.g. : **sleep+123456+space+shock** should be sent to the tracker as following ; **sleep123456 shock**



1. Switching your tracker ON/OFF

1.1 To turn your tracker "ON", move the ON/OFF switch to the ON position, LED lights will flash, which shows that the tracker has been switched on.

2. Changing your tracker's password

Send SMS "password+old password+space+new password" to your tracker to change its password. Passwords can only contain numbers. If you forget your password, you can restore it to the default password using the command "adminpassword13142324".

Please note that you only need to change your password if you intend to share your tracker's phone number with other users and do not wish to give them access to its settings.

Example : password123456 99999

Response: password OK

3. Authorization process

3.1 You will need to add your phone number as the authorized number if you wish to receive any alerts or scheduled reports. If you only wish to use this device

for tracking via SMS or GPRS, you can skip the authorization process.

Authorization can be done in two different ways:

3.2 A-) Dial the tracker's number 10 times from your mobile phone and it will register your mobile phone number as the authorized number automatically.

Each time you call your tracker, it will ring 3-4 times, hang-up and reply with a location report SMS.

3.3 B-) Send SMS “admin+password+space+cell phone number” to set up an authorized number. All the other authorized numbers must be set by the first authorized number.

Example : admin123456 07776665544

Response: admin OK!

3.4 To delete authorization: Send SMS “noadmin+password+space+authorized number” to delete the authorized number. **Example : noadmin123456**

07776665544

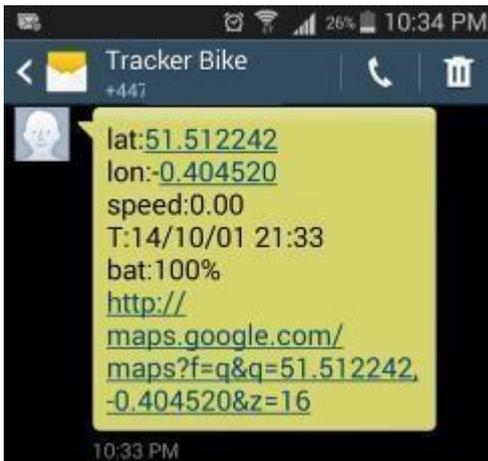
Response: noadmin OK!

4. SMS text Message Locating

If there aren't any authorized numbers set-up, 104 PRO will reply to all calls with a location report. If there are authorized numbers set-up, only authorized numbers will be able to receive location report from the tracker.

The SMS text message will include coordinates, current speed, time and date. It will also contain a direct Google Map link for smartphone users. Once you click

on the link, it will instantly open up Google Map for you to see the location of your vehicle.



*If you request your tracker's location when it does not have sufficient GPS signal, it will respond with text message but will not contain any coordinates. Once it acquires enough GPS signal it will send another text message with its latest coordinates.

5. Interval tracking

104 PRO can send automatic location reports at set intervals. If SMS mode is active, reports will be sent as SMS text messages. If GPRS tracking mode is active, update intervals to the server will be adjusted.

5.1 Continuous interval tracking

Send SMS “fix030s***n+password” to the tracker. It will reply with its location continuously at 30 seconds intervals. e.g. fix030s***n123456

Note: Minimum value for this setting is 10 seconds.

Example: fix030s*n123456**

5.2 Smart Tracking using Time and Distance Intervals

5.2.1 Interval tracking must be activated before using this mode.

Send "distance+password+space+distance". Tracker will reply "Distance ok". The tracker will upload its location at pre selected time intervals and distance.

Example: distance123456 0050

Response: distance OK

This will configure the 104 PRO to update its location every 50 meters.

- 5.3 **Turning interval tracking "OFF"** : To cancel interval tracking send SMS command “nofix+password” to your tracker.

Example: nofix123456

6. Smart update

- 6.1 The tracker will update its position automatically to the web server when the vehicle changes driving direction over pre set angle value to form a smooth trajectory consistent with the corner. This function is only effective in GPRS mode.
- 6.2 Send "angle+password+space+angle" to tracker, it will reply" angle ok".
- 6.3 The angle must be 3 digits, default angle value is 30 degrees.

Example: angle123456 45

Response: angle ok

7. GPS drift suppression

- 7.1 This function is deactivated by default. Send "suppress+password" to the tracker to activate, it will reply" suppress drift ok". The GPS data will stop updating if the vehicle is stationary . GPS data will update automatically once vehicle starts moving.

Example: suppress123456

Response: suppress ok

7.2 To Cancel: send "nosuppress+password" to tracker, it will reply"
nosuppress ok ".

Example: nosuppress123456

Response: suppress ok

8. Exact street address by SMS

You must set the APN of your GSM network provider for the SIM card used in tracker before using this function. If your local GSM network requires user name and password for GPRS, please set it up according to the GPRS instructions in chapter VII. Send SMS "address+password" to your racker after the APN has been set and it will reply in exact address including street name.

Example: address123456

Response: 20a Park street, clifton, bristol, bs1 5ja

9. Cell-ID locating (LBS)

If 104 PRO is unable to establish a solid GPS fix, it will calculate its location using Cell-id info. Location reports will include the GPS coordinates of the last known position as well as a LAC code. You can also send command "address+password" to the tracker to request exact address.

104 PRO will automatically switch to tracking by LBS in GPRS mode. Accuracy of LBS (also known as Cell-id tracking) depends on the distance to

the nearest GSM Network Cell Tower or Base Station. In urban areas this accuracy varies between 25-100 meters.

10. Status enquiry

Send SMS "check+password" to your tracker to check its status.

Example: address123456

Response:

Power: Power off

Battery: 100%

GPS: OK/NO GPS

GSM Signal: 1-32 (32 is the strongest signal level)

11. IMEI number enquiry

Send SMS "imei+password" to the tracker and it will respond with IMEI number of its GSM module.

Example: address123456

Response: 359710055669875

12. Time Setting

Send SMS command "time+space+zone+password+space+time" to 103-RS, It will reply "time OK"

Example: time zone123456 1 (1 is gmt +1 UK time zone)

Response: time ok

If you are in minus time zone, send the time zone command with a "-" symbol.

Example: time zone123456 -8

Response: time o

13. Voice Surveillance

104 Pro is in Tracking mode by default. When voice surveillance mode is activated, it will automatically answer incoming calls rather than replying with an SMS location report. To activate the voice surveillance mode, send SMS "monitor+password" to the tracker. It will reply "monitor ok" and switch to "monitor" mode.

Example: monitor123456

Response: monitor OK

Do not forget to switch back to tracker mode once you have finished using the voice surveillance. When your tracker is in monitor mode it will stop updating its position and it will shut the GPS module "OFF". To change back to tracker mode use command "tracker+password"

Example: tracker123456

Response: tracker OK

14. Data Logging

14.1 Auto logging: If 104 PRO loses GSM or GPRS signal, it can store GPS information automatically on to the flash drive upon the pre-set conditions. When GSM signal is back to normal, all the event alerts will be auto-sent to the authorized numbers or live tracking server.

14.2 Continuous logging: You can manually set your tracker to save GPS data to the micro sd card continuously, independent from the GSM or GPRS.

This will allow you to use your tracker as a GPS logger.

To activate continuous GPS logging, send SMS command:

"save030s***n+password" to your tracker, it will reply "save ok" and start saving its GPS position information to the micro SD card every 30 seconds.

Example: save030s*n123456**

Response: save ok

14.3 Logging Clearance: send SMS: "clear+password" to tracker device, it will reply "clear ok" and delete all GPS position information stored on the micro SD card.

Example: clear123456

Response: clear ok

14.4 Logging Volume: Built-in flash 1MB (store about 16,000 positions). This volume can be expanded by using a Micro SD card which can be inserted into slot provided. A 2GB card would be sufficient for up to 10 months.

14.5 Data logging function also enables you to use this tracker as a GPS logger. You can download the location data to your PC by using the free PC software provided, through USB connection.

15. Forwarding incoming SMS messages

15.1 104 PRO can forward incoming messages from pre-set third party number . To activate this function, send "forward+password+space+third parties

phone number" from an authorized phone number. The tracker will reply "forward ok", and start forwarding SMS messages received from that number. Only one number can be set-up for SMS forwarding.

Example: forward123456 07776665544

Response: forward ok

15.2 To cancel SMS forwarding send SMS command "noforward+password".

Example: noforward123456

Response: no forward ok

16. Remote immobilizing

Send command "stop+password" to 103-RS. Once the immobilize function has been executed, it will reply "Stop engine Succeed". It will remain immobile until you send command to resume the fuel supply. Before using the stop command, please select execute immediately mode or normal mode;

Example: stop123456

Response: Stop engine succeed

Remote fuel resume

Send "resume+password" to tracker, it will reply "Resume engine succeed", this means the 104 PRO will now resume the fuel & power supply.

Example: resume123456

Response: Resume engine succeed

17. Reboot

Send SMS "reset+password" to the tracker to restart the GSM module and

GPS module. It will reply "reset ok".

Example: reset123456

Response: reset ok

18. Standby Modes

Timed standby after 5 minutes

In this standby mode 104-PRO will change to standard standby mode if there has been no activity for 5 minutes. (No calls or Text commands); GPS module and Led light will switch OFF , GSM module (phone line) will still be ON. It will wake up and turn the GPS module ON only if you call it to request position or send an SMS command. If movement sensor or shock sensor alarm is active this standby mode will not work. This standby mode is ideal if you would only like to use SMS location request tracking. To activate send SMS command "sleep+password+space+time" to your tracker.

Example: sleep123456 time

Response: sleep time ok!

Standby with shock sensor

In standby with shock sensor mode 104-PRO will enter sleep mode **if it has been stationary (no vibration) for 5 minutes**. GPS module and LED lights will shut off, GSM module will still stay ON. As the GSM module will be ON, you will still be able to communicate with the unit directly. Vibration, movement, sending SMS commands or Calling the 104-PRO will wake it back up. To activate send sms command:

"sleep+password+space+shock".

Example: sleep123456 shock Response: sleep

shock ok!

Deep standby mode with shock sensor

When activated, after being stationary for 5 minutes without any vibration or movement, 104-PRO will switch to deep standby mode with shock sensor.

GPS, GSM and led light will be OFF. Only vibration or movement can wake the tracker back up from Deep Sleep by Shock Sensor mode.

Once it's awake, it will automatically send a notification message to the authorized numbers. As the GPS and GSM modules will be OFF, you won't be able to communicate directly with the tracker. However, if you send any SMS command, it can receive and process this command as soon as it wakes up from Deep Sleep mode.

For constant live internet tracking (GPRS), deep standby mode with shock sensor provides the longest battery life with a single charge as the GSM module (phone line) will also be OFF. Please note that the auto interval setting used for live tracking will override this the standby and keep the TK102-NANO awake so GPRS economy mode should also be activated. Please use both commands ;

"sleep+password+space+deepshock" and

"less+space+gprs+password+space+on"

Example: sleep123456 deepshock Response:

sleep shock ok! **Example:**

less gprs123456 on

Response: sleep shock ok!

Please note that by default each time the 104-PRO wakes up from deep sleep, it will send a notification SMS message to authorized numbers. You can cancel this function anytime by sending SMS command :

"wake+123456+space+off" . This way you will not get an SMS notification each time it wakes up. **Example: wake123456 off Response: wake off ok!**

Schedule work standby mode

In scheduled work standby mode 104-PRO is able to switch itself OFF and only wake up at pre-set intervals. When it wakes up it will work for 5 minutes, report its location (SMS or Internet) and switch OFF. If you are using your 104-PRO in live, internet tracking mode and would like to use schedule work mode, you will also have to activate less gprs mode. If GPRS economy mode is not active the auto interval update will override the schedule standby and keep your tracker awake.

To activate schedule work standby mode send schedule work sms command and Gprs economy mode command; "schedule+password+space+time interval" and "less+space+gprs+password+space+on" Time interval settings are ; m= minutes , h=hours, d= days. Maximum schedule setting is 30 days.

Example: schedule123456 30m

Example: schedule123456 5h

Example: less gprs123456 on

Response: sleep shock ok!

Schedule work standby mode will provide the longest standby duration as power usage will always stay at minimum possible levels. GPS , GSM modules and the shock sensor will switch off and only the timer will be consuming power. Please see approximate battery standby durations below;

2 updates per day = 8 months 4 updates per day = 4 months

8 updates per day = 8 weeks 24 updates per day = 4 weeks

To cancel schedule work standby mode send SMS command:

"noschedule+password" **Example: noschedule123456**

Response: noschedule ok!

Switching standby modes OFF

All standby modes can be switched off by sending SMS command:

"sleep+password+space+off". Please note if you are using your 104PRO in self contained , self powered mode, we do not recommend turning standby modes off as the battery standby duration will be reduced to 3 days.

Example: sleep123456 off

Response: sleep off ok!

IV. Alarms

1. Geo-Fence (Virtual Fence)

1.1 This function allows you to create safety zones of your choice. When 104 PRO enters or leaves this pre-determined zone, it will send geo-fence alarm warning to authorized numbers.

When the unit stays immobile in a place for 3-10 minutes, you can send SMS “stockade+password+space+latitude,longitude;latitude,longitude” to the unit to set the restricted area. In case of a breach, it will send SMS “stockade!+location” to the authorized numbers every 3 minutes. Tracker will stop sending alarm if the tracker returns to the restricted area

Note: The first latitude & longitude is coordinate of the top left corner of the Geo-fence, while the second latitude & longitude is the coordinate of the bottom right corner.

Example: stockade123456 51.460959, -2.622643; 51.456842, -2.604446

Response: stockade ok!

You can obtain coordinates of any location from Google Maps by clicking on desired location and selecting "what's here?"

1.2 To Cancel: Send SMS “nostockade+password” to deactivate this function.

Example: nostockade123456

Response: nostockade ok!

2. Multi-Area Management

2.1 To Set an Area for multi-management

Send SMS command

"area+password+space+latitude,longitude+space+areaname,distance" to the tracker (distance unit: M for meter, K for kilometer). Tracker will reply "area01ok".

Example: area123456 22.353648,113.543678 school,800M

Response: area ok!

Note: 5 areas at most and the distance between two points can't be less than the total distance in the 2 commands. Different areas can't cover each other.

2.2 Delete areas

Send SMS command:"noarea+password+space+area name", 104-PRO will reply:"noarea ok".

Example: noarea123456 school

Response: noarea ok!

2.3 Rename and set distance

Send SMS command "rename+password+space+old name;new name,distanceM" to the tracker. If name is not repeated and area doesn't cover other areas, it will reply "rename ok!" if configuration was successful.

Example: rename123456 area01;school,800M

Response: rename ok!

2.4 Activate multi-area management

Send SMS command "area+password+space+on" to the tracker and it will reply "Area on ok!". When the tracker enters the pre set area, it will send SMS "area location" to all the authorized phone numbers, and it will send the same SMS when it goes out of the area.

Example: area123456 on

Response: area on ok!

2.5 Deactivate Multi-area management

Send SMS command "area+password+space+off" to tracker, it will reply "area off ok!"

Example: area123456 off

Response: area off ok!

3. Movement alarm

3.1 Set up: when the unit stays immobile in a place for 3-10 minutes with GPS signal reception you can send SMS "move+password+space+0200" to the tracker. This will activate the movement alert with an area radius of 200 meters. Maximum radius limit is 999 meters. 104 PRO will reply "move OK". In case of such a movement it will reply SMS "move+location" to the authorized numbers at 3 minutes intervals.

Note: Setting the radius less than 100 meters may result in false movement alert. The fault alert occurs if GPS position is miscalculated due to bad GPS reception. Inaccurate GPS reading will cause the 104PRO to think that it is

in a different location, possibly further from its current location, thus the processor will accept this as a movement and trigger the movement alarm.

However, this may only occur if the 104 PRO is installed improperly in a place where it can't receive good signal.

Example: move123456 0200

Response: move ok!

3.2 To Cancel: Send SMS “nomove+password” to deactivate the movement alarm.

Example: nomove123456

Response: nomove ok!

4. Over Speed alarm

4.1 Over speed alarm will be triggered when tracker exceeds speed limit predetermined by you. Setup: Send SMS “speed+password+space+speed” to the tracker and it will reply “speed ok!”. This means that you have set up over speed alarm successfully.

For example: “speed123456 080” 080 refers to 80km/h. When tracker’s speed exceeds 80km/h, the tracker will send SMS “speed+080!+ location” to authorized numbers. **Example: speed123456 100**

Response: speed ok!

4.2 To cancel: Send SMS “nospeed+password” to deactivate the over speed alarm.

Example: nospeed123456 Response:

nospeed ok!

Note: Minimum recommending speed alarm setting is 30km/h

5. Accident alarm

5.1 When tracker detects very strong vibration it will assume that an accident has occurred and it will send SMS " Accident!+location " to all authorized phone numbers.

5.2 Cancel: Send "noaccident+password" to cancel accident alarm. **Example: noaccident123456**

Response: noaccident ok!

6. Shock Sensor alarm

6.1 Setup: Shock sensor alarm is deactivated by default. To activate send SMS "shock+password" to the tracker, and it will reply "Shock is activated!", this means shock sensor alarm has set up successfully. When the tracker detects vibration, it will send SMS "Sensor alarm+location" to authorized numbers.

Example: shock123456

Response: shock ok!

6.2 Cancel: Send "noshock+password" to cancel the shock sensor alarm.

Example: noshock123456

Response: noshock ok!

6.3 Shock sensor sensitivity configuration:

The sensitivity of the built-in shock sensor has three different levels:

First level: Alarm will be triggered after detect slight vibration, send command"

sensitivity+password+space+1" .

Second level: Alarm will be triggered after detect 8 times vibration in 2 seconds,

send command" sensitivity+password+space+2".

Third level: Alarm will be triggered after detect 25 times vibration in 5 seconds,

send command" sensitivity+password+space+3".

Example: sensitivity123456 2

Response: sensitivity ok!

7. Low Battery alarm

8.1 Low battery alarm helps users to know when the battery of 104-PRO is low. It sends 3 notification SMS messages to authorized numbers; at %10, at %5 and just before it's completely flat. Low battery alarm is active by default, send SMS "lowbattery+password+space+off" to deactivate.

Example: lowbattery123456 off Response:

low battery off ok!

8. Power Off alarm

This function is deactivated by default. Send sms command " extpower+password+space+on" to activate, it will send SMS "power alarm+location" to authorized numbers every 3 minutes if the external power has been cut off.

Example: extpower123456 on Response:

extpower on ok!

To cancel: Send SMS “ extpower+password+space+off” to deactivate it.

Example: extpower123456 off

Response: extpower off ok!

9. GPS Blind Spot alarm

10.1 This function is deactivated by default. To activate Send SMS command “gpssignal+password+space+on”, it will send alert SMS “no gps+last valid location before signal loss”

Example: gpssignal123456 on

10. Restore to factory defaults

All settings on your 104-PRO can be restored to factory defaults by sending sms command: "begin+password" **Example: begin123456** **Response: begin ok!**

V. Live internet tracking (GPRS) Setting

GPRS tracking mode allows 104 PRO to upload its location data to a web server at preset intervals. Live tracking server provides access to real-time tracking, tracking history, statistics and many more.

1. Setting Up The APN

APN stands for Access Point Name and differs with each GSM network and is required for a SIM card to have mobile data (internet) access. For more information, contact your local SIM card network operator. Send SMS

“APN+password+space+APN”, the tracker will reply “APN OK” if succeeded.

Example: apn123456 everywhere

Response: apn ok!

Note: everywhere is the APN code for pay as you go services of EE UK GSM network. the APN varies with different GSM network operators in different countries, please check with your local GPRS network operator to get the correct APN. Please see examples below for some popular UK networks;

**apn123456 data.lycamobile.co.uk -Lycamobile UK apn123456
uk.lebara.mobi -Lebara UK apn123456 giffgaff -Giff
Gaff UK**

2. GPRS User Name and Password Setup

Most networks do not require password authentication while setting up the APN. However, if your network requires this setting please configure as following:

Send SMS “up+password+space+user+space+password”, If succeeded, tracker will reply “user, password ok!”. up123456 data access”

Example: up123456 everywhere

Response: user, password ok!

Note: 123456 is password of tracker, data is the user name for GPRS login, access is the password for GPRS login.

3. IP and Port Setup

This setting will configure the 104 PRO to upload its location to the selected server.

Send SMS “adminip+password+space+IP+space+port” to the tracker. It will reply “adminip ok” if succeeded

Example: adminip123456 94.229.67.57 10200

Response: user, password ok!

e.g. adminip123456 94.229.67.57 10200 Tracker will reply “adminip ok” if succeeded . This will configure your 104-PRO to send data to our tracking server which can be accessed from www.gpslive.co.uk

Note: 94.229.67.57 is the IP address of the server and 10200 is the port.

104PRO is set to work with our UK based server www.gpslive.co.uk's ip address and port by default.

4. Modes Switch Between “SMS” and “GPRS”

4.1 The default mode is “SMS”.

4.2 Send SMS “GPRS+password” to the unit, and it will reply “GPRS ok!”

This means tracker has switched to “GPRS” mode.

4.3 Send SMS “SMS+password” to the unit and it will reply “SMS ok!” and restore to “SMS” mode.

5. GPRS economy mode

GPRS economy mode helps the 104-PRO to close the internet connection if the vehicle has been stationary for more than 5 minutes. This feature helps the 104PRO to preserve battery power and consume less internet data. GPRS economy mode is activated by default. To deactivate, send sms command:

"less+space+gprs+password+space+off"

Example: less gprs123456 off Response:

less gprs off ok!

VI. Live tracking server

For registration please visit www.rewiresecurity.co.uk. Once you have created an account please e-mail us with the imei number of your device and your registered e-mail address so we that we can activate your subscription.

VII. Troubleshooting

Faults	Analyze	Solution
Fail to turn on	Battery power is low	Connect with charger
NO GSM signal	1.GSM Antenna is not connected well 2.SIM card is not installed properly	1.Check GSM antenna connection 2. check SIM CARD installation or change the SIM CARD.
No location Reports received From the tracker	In existence of an authorized number, an unauthorized number dials up the unit.	Please delete the authorized number or initialize the unit.
Monitor Fail	In existence of an authorized number, an unauthorized number dials up the unit.	Please delete the authorized number or initialize the unit.
GPS Fix Fail	1. GPS reception is poor. 2. GPS antenna is not connected properly.	1.Place the tracker in an open area 2.Check connection of GPS antenna

GPRS Connecting Fail	1. APN, IP address and port may be wrong. 2.No GPRS subscription service 3. No credit left	1 , Configure APN, IP and port again. 2, Subscribe GPRS service 3 , Top-up the SIMCARD.
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VIII. LED indicator status

LED Indicator	Status	
Power LED (Red)	Red LED flash	Low power
	Red LED ON	Charging
	Red LED OFF	Fully charged
GSM LED (Green)	ON	NO GSM reception
	Quick flash for each second	GSM Mode
	Slowly flash for each 3 seconds	GPRS Mode
GPS LED (Blue)	OFF	No GPS reception
	Quick flash for each second	Good GPS reception