



# Simple GPS Tracking Solution

using your mobile phone with  
R-9 and R-35 series unit  
by Google Map Hyperlink

Arknave International Inc.

2010

# System Requirements

- A R-9 (firmware V9.5A), R-35, 35W or 35 Cube unit (firmware V1.21 or above) with a sim card (prepaid ok)
- A mobile phone which can browse the internet (by GPRS, 3G)



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# R-9 (9.5A) Configuration [1/2]

View/ Setup/ Select Configuration

<b>Enabled by:</b> Motion Switch only	<b>Speed Limit (0-183 km/h):</b> <input type="text"/> <b>Speed limit activation time: (0-255 sec)</b> <input type="text"/>	<b>OS upload port (0-65535):</b> <input type="text"/>
<b>Base phone number 1:</b> <input type="text"/>	<b>GEO Fencing activation:</b> Disabled	<b>Existing Password:</b> 1234 <b>New Password:</b> <input type="text"/>
<b>Base phone number 2:</b> <input type="text"/>	<b>GEO Fencing Area setup:</b>	<b>Version number : V XXXX</b>
<b>Base phone number 3:</b> <input type="text"/>	<b>LAT1</b> <input type="text"/> N 2 <input type="text"/> N	<a href="#">Click here to Check if configuration is valid</a>
<b>SMSC number:</b> <input type="text"/>	<b>LONG1</b> <input type="text"/> E 2 <input type="text"/> E	<b>HELP</b>
<b>Credits left:</b> Credits OK	<b>Real Time track int. ONLINE(0-16383):</b> <input type="text"/> (Realtime multiple times 4)	<b>C:</b> <input type="text"/> <b>HELP</b>
<b>GEO fencing delay (1-240 sec):</b> <input type="text"/>	<b>Real Time track int. OFFLINE(0-16383):</b> <input type="text"/> (Realtime multiple times 4)	C:\ Documents and Setting User 「開始」功能表 Cookies
<b>GEO fencing sensitivity (1-240 Knots):</b> <input type="text"/>	<b>Working Mode:</b> SMS ONLY	2009-8-17L_下午 06.28.29.csv log.txt tts.log
<b>Vibration sensitivity (3-255):</b> <input type="text"/>	<b>GPRS Mode:</b> UDP	<b>Save Configuration</b> <b>Load Configuration</b>
<b>Alarm activation:</b> Active low or high	<b>Static IP addr. or Domain:</b> <input type="text"/>	<b>RETURN MAIN MENU</b>
<b>Alarm input delay time (1-240 sec):</b> <input type="text"/>	<b>UDP destination port (0-65535):</b> <input type="text"/>	
<b>Power failure delay time (0-240 sec):</b> <input type="text"/>	<b>TCP destination port (0-65535):</b> <input type="text"/>	
<b>Save/Resend missed locations:</b> Disabled	<b>DNS Server IP address:</b> <input type="text"/> (* See Manual)	
<b>SOS function:</b> SOS output signal	<b>APII (access point Name) 32 Max:</b> <input type="text"/>	
<b>Panic input:</b> Enabled	<b>GPRS login name:</b> <input type="text"/> (24 Max)	
<b>Status send every:</b> 0 Day(s)	<b>GPRS password (16 Max):</b> <input type="text"/>	
<b>Input voltage low trigger level:</b> <input type="text"/>	<b>Disconnect GPRS when message is send:</b> Disabled	
<b>Input voltage high trigger level:</b> <input type="text"/>		
<b>Delay time input volt. low or high: (0- 255 seconds)</b> <input type="text"/>		

File Selected :

# R-9+ (9.5A) Configuration [2/2]

View/ Setup/ Select VOICE/ ADC Configuration

Voice setup :	Special Function setup :
Auto Pickup after (0-9) rings (0 - Do not Auto Pickup Voice Call )	Enable ALARM output when GEO
Send Location for missed Call:	Fencing alarm activates:
Send custom location message to Caller number for missed Call:	Send Custom message to Base Phone Number 2 :
DS18S20 to measure temperature: (AUX3 input connection!)	Send Panic, Alarm, GEO or Power loss activated to Base Phone Number 3:
Low Temp. trigger (-55 to 125 Degrees):	Command received from Base3 send back to Base1 :
High Temp. trigger (-55 to 125 Degrees):	Remove comma, points and other exclamation from GPRS data :
ADC (AUX3) input trigger level (0-255) :	Send data using SMS if GPRS fails :
ADC (AUX3) delay time (0-255 sec) :	GEO input follows AUX1 input :
(0 = disabled )	Send GForce data when activated : (CHECK MANUAL FIRST! )
ADC trigger activation :	Enable commands from other Base Phone numbers:
AUX2 input function :	Security ID code (10 Digits):
As input to activate after delay time	Disconnect GPRS when in sleep mode:
AUX2 input delay (0-255): (0 = disabled)	Stop real time tracking when roaming:
Pulse Counter Prescale (2-65535): (0-1 = disabled)	Real Time track int. when Roaming: OHLIIE(0-16383) (Realtime multiple times 4)
Measure distance using GPS: (Download GPS distance Table!)	SMS Only when Roaming:
Read I-button ID:	Preferred operator when Roaming: (CHECK MANUAL FIRST! )
Read I-button at all times:	SIM PIN Code(4 Digits): (empty = none)
Buzzer Delay time (minutes): (1 to 5 min)	Select GSM Band:
Enable ALARM output if I-Button is not Read:	Serial Port Data:
Panic Dial out number: (empty = no dial out)	

RETURN MAIN MENU

# R-35 Configuration [1/2]

Basic Configuration Setup		
Base ph. number 1: <input type="text"/>	Auto Pickup after (0-9) rings (0 - Do not Pickup Voice Call) <input type="text" value="5"/>	Send data using SMS if GPRS fails: <input type="text" value="Disabled"/>
Base ph. number 2: <input type="text"/>	Speaker on: <input type="text" value="Yes"/>	Disconnect GPRS in sleep mode: <input type="text" value="Disabled"/>
Base ph. number 3: <input type="text"/>	After Panic message send activate Buzzer for 1 second: <input type="text" value="No"/>	Stop real time track. when roaming: <input type="text" value="Disabled"/>
SMSC number: <input type="text"/>	Panic Response: <input type="text" value="Dial Out First"/>	Resend Missed locations: <input type="text" value="Disabled"/>
Custom message to Base2: <input type="text" value="Disabled"/>	SMS during Panic Voice Call: <input type="text" value="No"/>	Send Location for Missed Phone Call: <input type="text" value="Enabled"/>
Enable commands from other Base Phone numbers: <input type="text" value="Disabled"/>	SMS track. interval ONLINE (0-16383) : <input type="text" value="0"/> (Value *4 seconds)	Existing Password <input type="text" value="1234"/>
Security ID code (10 Digits): <input type="text" value="0123456789"/>	Add IMEI number to SMS Message: <input type="text" value="No"/>	New Password <input type="text"/>
Credits left: <input type="text" value="Credits OK"/>	Clear all saved locations: (Startup delay 5-10 minutes) <input type="text" value="No"/>	Version number : <input type="text" value="PXXX"/>
SIM PIN Code(4 Digits)empty=none: <input type="text"/>	Working Mode : <input type="text" value="SMS ONLY"/>	<a href="#">Click here to Check if configuration is valid</a>
Vibration sensitivity (0-255): (255 - Disable) <input type="text" value="0"/>	GPRS Mode : <input type="text" value="UDP"/>	<input type="text" value="c:"/> <input type="button" value="HELP"/>
Motion Alert Buzzer: <input type="text" value="Disabled"/>	Static IP addr. or Domain name for GPRS : <input type="text"/>	<input type="text" value="C:\Documents and Setting\User\「開始」功能表"/> <input type="button" value="2009-8-17L_下午 06.28.29.csv log.txt tts.log"/>
Low battery warning: <input type="text" value="Disabled"/>	UDP destination port (0-65535) : <input type="text"/>	<input type="button" value="Save Configuration"/> <input type="button" value="Load Configuration"/>
Panic input: <input type="text" value="Enabled"/>	TCP destination port (0-65535) : <input type="text"/>	<input type="button" value="RETURN MAIN MENU"/>
No power down after Panic input is activated: <input type="text" value="Disabled"/>	DIIS Server IP address: <input type="text"/> (* See Manual)	
Dial-out number 1: <input type="text"/>	APII (access point Name) 31 Max: <input type="text"/>	
Dial-out number 2: <input type="text"/>	GPRS login name (24 Max): <input type="text"/>	
Dial-out number 3: <input type="text"/>	GPRS password (16 Max): <input type="text"/>	
Speed Limit (0-183 km/h) : <input type="text"/>	Optimize GPRS data: <input type="text" value="Disabled"/>	
Speed limit activation time : (0-255 sec) <input type="text"/>		
Motion Switch options: <input type="text" value="Park Switch"/>		
File Selected :		

# R-35 Configuration [2/2]

**Advanced Configuration Setup**

Panic button to pickup phone call:

Ibutton Reading:  PLEASE CONFIGURE AUX2 AS OUTPUT WHEN ENABLED!

Ilo Sleep when AUX1 input is activated:

Send custom location message to Caller number for missed Call:  PLEASE ENABLE 'Send location for missed phone call at the same time!'

Hours Counter AUX1 activated:

Working Mode:

AUX1 input delay time (0-255 sec): (0 - Disable)

Message to Base phone number1 and 3

Message to Base Phone number2

Start Sleep mode message:

Park Alert:

Park Alert:

Ilo movement 24hours message:

Stop Motion Alert:

Stop Motion Alert:

^ Check manual ^

Panic Alert:

Panic Alert:

Vibration for 24hours message only:

^ Check manual ^

Low Battery Alert:

Low Battery Alert:

Time if Power is lost:

Overspeed Alert:

Overspeed Alert:

Custom message Language:

Ilo Movement 24H Alert:

Ilo Movement 24H Alert:

GSM Band:

Please make sure to configure the Real time clock . See R-35 Setup Manual for information how to configure the settings.

GPS Time/Date current :

Real time wake up settings:

Report GSM Cell location when GPS is unavailable (check manual):

Minutes (0-59):

Hours (0-23):

DS18S20 to measure temperature:

Day:

Low Temp. trigger(-55 to 125 Degrees):

Date:

High Temp. trigger(-55 to 125 Degrees):

Minutes delay (1-1439):

AUX2 as Output:

Send Status Message after Real time wake up:

ADC setup (AUX2) - ONLY IF AUX2 as INPUT:

During Real time wake up the GSM modem and GPS receiver will be on. The unit will shut down after 3-5 minutes (no input activation detected)

ADC input trigger level (0-255) :

ADC delay time (0-255 sec) : (0 = disabled)

ADC trigger activation :

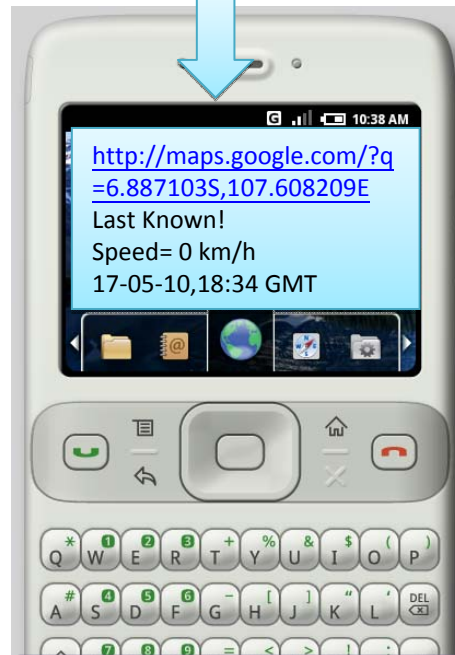
**RETURN MAIN MENU**

# Work Flow

1. Call the unit from any mobile phone.

After hearing **first RINGTONE**, please hang up the call

2. The unit will send SMS to caller phone



3. Click on hyperlink in the SMS



4. If the Mobile Phone supports internet browsing, you can see position on map.

**Note:**

**May not work with all GSM operators.**

# Advantages

- Open GoogleMapHyperlink to see the map directly on SmartPhone, PDA, iPhone, Blackberry or any mobile phone which is able to browse the website.
- Real time request of position and view it on map without the tracking server.
- No fixed service cost, only SMS cost when request the location.