

ELECTRONGPS QUICK SET UP GUIDE FOR SANAV GPS TRACKERS

INTRODUCTION

Welcome to your new SANAV GPS Tracker. This Quick Start guide tells you how to set up and configure your tracker in just a few easy steps.

Once you have the SANAV GPS tracker working you can optimize the settings for your application using the instructions in the User Manual which you can download from www.electrongps.com

There are two easy ways to set up your SANAV GPS Tracker via :

a) **PC Programming Utility** (See ❶).

b) **SMS Text Commands** (See ❸). This programming method is used if the GPS tracker is located remotely.

You can send the GPS position reports via:

- GPRS (either HTTP, TCP or UDP) to a Web Server . See ❷
- SMS Text to a Mobile Phone or an SMS gateway

❶ Install PC-Based Programming Utility & Serial-to-USB Driver

a) **Download & Install USB Driver**

Install the Windows Serial-to-USB Driver (Prolific 2303) from the SANAV Program CD or from www.electrongps.com/support

b) **Download & Install Program Utility**

Download the latest SANAV Programming Utility specific to your GPS tracker model from www.electrongps.com/support and install the application on your Windows PC. The installation password is "demover".

c) **Determine COM Port**

Connect the USB "Data" Programming cable to the PC and then in Windows select "System Hardware", "Device Manager", "COM Ports" to determine the correct COM port number. The correct port will be listed as "Prolific Serial-to-USB Adapter".

❷ Connect the SANAV GPS Tracker to the Programming Utility

a) **Connect GPS Tracker to Data Cable**

Connect the GPS tracker to the USB "Data" Programming Cable and then turn the GPS Tracker Power ON. The Yellow LED should be lit after a few seconds indicating that the GPS tracker is in Programming Mode.

b) **Connect USB Data Cable to PC and Start SANAV Programming Utility**

Start the SANAV Programming Utility and select "Port". Enter in the correct COM port number determined in step ❶c). Then press "Connect" and after the GPS Tracker is successfully connected to the Programming Utility, press "Function".

The current configuration settings for the GPS Tracker will now be displayed in the Programming Utility (see below).

Now, configure all the GPS Tracker settings

❸ Set "Route" to Send GPS Reports via SMS, HTTP, TCP or UDP

Configure the GPS Tracker "Data Route" (Setting 14) via the USB cable and the SANAV Programming Utility.

a) **Programming Utility Setting**

Set Data Route (Setting 14) = 4 (SMS)
Set Data Route (Setting 14) = 0 (HTTP)
Set Data Route (Setting 14) = 7 (TCP)
Set Data Route (Setting 14) = 9 (UDP)

b) **Remote Programming - Send SMS Text Command to Configure Data Route**

(SMS) #username,0000,14,4*
(HTTP) #username,0000,14,0*
(TCP) #username,0000,14,7*
(UDP) #username,0000,14,9*

❹ Set the GPS Auto-Report & Stationary Alert Interval

a) **Set the Auto-Report via the Programming Utility (Setting #6)**

GPS Measurement Interval = 120 (sec)
Total GPS Reports = 9999
Stationary Distance = 125 (meters)
Stationary Multiple = 2 (i.e. 2 x 120 = 4 mins)
Stop Multiple = 1 (i.e. 1 x 120 = 2 mins)

b) **SMS Text Command Format**

GC-101-D2F (Single Interval):

#username,0000,6,60,9999*

CT-24-D2F & CT-58-IR (Dual Interval):

#username,0000,6,60,9999,125,2*

GX-101-iF & CT-24-D4F (Start/Stop Alerts):

#username,0000,6,60,9999,125,2,2*

❺ Set SMS Gateway Phone Number (only for Data Route = 4)

a) **Set Mobile Phone Number via Programming Utility (Setting # 5)**

b) **Set Mobile Phone Number via SMS**
#username,0000,5,yourmobilephone,0,0*

❻ Set IP Address and Port for HTTP, TCP or UDP (for Data Route = 0, 7, 9)

a) **Set IP Address & Port via Programming Utility (Setting # 18)**

b) **Set IP Address & Port via SMS Command**

#username,0000,18,XXX,XXX,XXX,XXX:XX XX*

❼ Set GPRS APN (Internet Setting for HTTP, TCP or UDP)

a) **Set GPRS APN via Programming Utility (Setting #3)**

b) **Set GPRS APN via SMS Command**
#username,0000,3,APN-Name,APN-Username, APN-Password*

Example APN's

AT&T Wireless

APN: WAP.CINGULAR
APN Username: WAP@CINGULARGPRS.COM
APN Password: CINGULAR1

T-Mobile USA

APN: m2m.t-mobile.com
APN Username: blank
APN Password: blank

❽ "SAVE" Programming Utility Settings and Restart GPS Tracker

Checkout the User Manual for detailed descriptions of all the configuration settings.

a) **After the GPS tracker has been configured as necessary, then select "SAVE" button.**

b) **Disconnect GPS tracker from USB Data Cable.**

c) **Restart GPS Tracker.**

The SANAV GPS Tracker should immediately start acquiring a GPS fix (Blue LED) and synching to the GSM system (Red LED). After synching, the SANAV GPS tracker will start transmitting GPS reports.

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CT-24(LE) Setting Function

File Settings Help

User Settings

1. Username : username 2. Password : ***** (New) ***** (Check)

5. SMS Phone Number : 0 SOS Phone Number : 0

GPRS Settings

3. APN : internet Username :

DNS : Password :

4. URL : http://www.sanav.com/eric-gga/gprs.aspx

14. Route : 0 { 2: HTTP, 0: HTTP or SMS, 12: HTTP and SMS, 4: SMS,
7: TCP, 6: TCP or SMS, 17: TCP and SMS,
9: UDP, 8: UDP or SMS, 19: UDP and SMS

18. TCP / UDP : 000.000.000.000 (IP Address / URL) 0000 (Port)

Mode Settings

8. Voice Polling : 2 { 1: Overhearing, 2: Dial polling, 3: Silent polling}

21. Flash Memory : 1 { 0: Off, 1: Store and Forward if no GPRS/SMS
2: Store and Fwd Reports in Fixed Size Cache

NMEA Sentence : 0 { 0: RMC, 1: GGA}

Power Saving : 0 { 0: Power OFF Between GPS Measurements
1: Power Always ON

SOS Button Toggle : 3 { 1: Vibration only, 2: Auto-Report only
3: Vibration and Auto-Report

Cell ID Report : 1 { 0: Never, 1: After every GPS report
2: When the GPS data status flag is 'V'

Auto Reset Mode : 6 { 0: Disabled, 1: MCU only, 2: GPS only
4: GSM only, 6: GPS and GSM

SOS Buzzer Alarm : 1 { 0: Disabled, 1: Enabled}

Report Settings

6. Auto Report : Moving Report Interval : 0 (Sec.)
Total Reports : 0 (Reports)
Moving Distance Threshold : 125 (Meters)
Stationary Alert Multiple : 0 (Times)
Stop Alert Multiple : 0 (Times)

15. Panic Report : Report Interval : 60 (Sec.)
Total Reports : 60 (Reports)

20. Fixed Size Cache : Cache Size : 2 (Reports)

Auto Reset : Interval : (n * 30 Min.) 0 (Times)

Vibration Detection Settings

Vibration Disable

Vibration Enable : Report Interval : 60 (Sec.)
Total Reports : 10 (Reports)

Detection Duration : 10 (Sec.)

Alarm 1 Alarm 2

Save Load Save File Load File Default Close