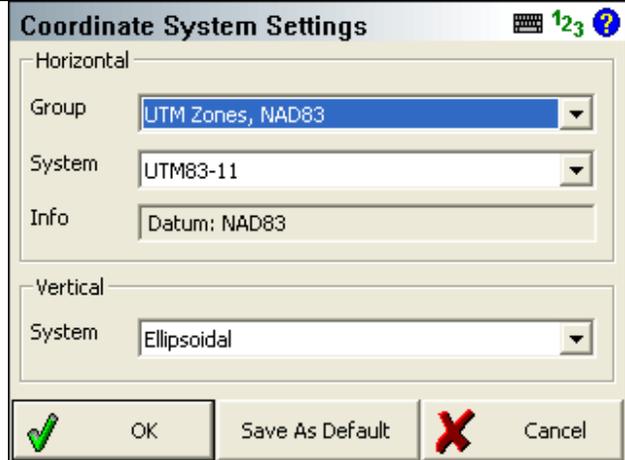


Sokkia GRX1– NTRIP Configuration

You must be using FieldGenius v4.4.1.1 or newer or EVR 7.2.1.1 or newer
 GRX1 Firmware: 3.4 p2 or newer Auxiliary Firmware: 1.1 or newer

Start | Settings | Coordinate System

Coordinate System Settings



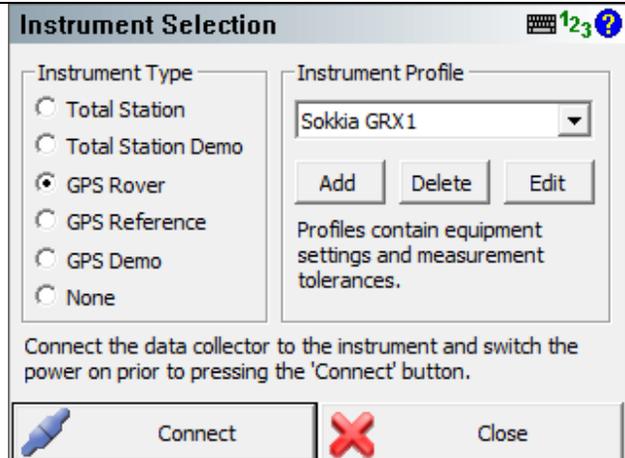
You will be prompted to assign a coordinate system when you start a new project.

Choose the datum settings for the area the GPS receiver is in. Note: You usually need to extract the grid (geoid) files for your area before using FieldGenius.

To do this, use the Datum Grid Editor that is available from our Support Helpdesk or load a byn file from your local Geodetic authority.

Start | Settings | Instrument Selection

GPS Rover Profile



Access this screen by going to Start | Settings | Instrument Selection.

Add a GPS Rover Profile and Edit it to access the profile settings.

Model and Communication

Model and Communication  

Make Model

Status: **Not Connected**

Port

Baud Rate Data Bits

Parity Stop Bits

The default com settings when using a cable are shown.

If you are using Bluetooth in a Windows Mobile device, Tracker Xtreme or Sokkia/Topcon 2500 you only need to select Bluetooth in the Port field and follow the directions.

Other devices will require you to create a Bluetooth partnership and then set the com port to match the partnership.

Tolerance Modes 1-3

Tolerance 1  

Description

Masks

Solution

Elevation

PDOP

SVs

Reference ID

Standard Deviation

Horz

Vert

Point Tolerance

Obs

Time



There are three different tolerance modes that can be set.

Configure the three tolerance modes based on your needs.

Once connected you can switch between them on the GPS Control menu.

Active Tolerance Mode

Select Tolerance
123 ?

	RTK Fixed
	DGPS
	DGPS


Cancel

Here you can set the default tolerance mode when you first connect to the rover.

Once connected you can switch between them on the GPS Control menu.

Antenna Height

Antenna Height
123 ?

Model	GRX1 (1) ▼
Measured Height	1.4
Measure Point	Bottom of antenna mount

Offsets

Measure Point to ARP Offset - Horizontal	0.0mm
Measure Point to ARP Offset - Vertical	0.0mm
ARP to APC (L1) Offset - Vertical	110.1mm


Close

Select the correct antenna model from the list.

You should always confirm the antenna offsets to those published for your receiver.

Select User Defined to enter your own offsets if required.

Now you will need to locate some information provided by the service provider that supplied your Sim card and the provider of your Ntrip caster service:

- Dialup and login information for the Sim card (to be entered in "Network options")
- Ntrip address and login information from the Ntrip provider (to be entered in "Ntrip Options")

Once this information is located power up your equipment, head outside where you have a good view of the sky and pick connect from the Instrument Select Screen.

Now you can configure your correction link:

Correction Link

Link Configure 123 ?

Link Device

Mobile ▼

Setup

Data Format

CMR/CMR+ ▼

Link Communication

GPS Port: Internal Dev ▼

Baud Rate: ▼

Parity: ▼

Data Bits: ▼

Stop Bits: ▼

Flow Control: ▼

Connect
Close

Choose the message type you want to use such as RTCM or CMR. If you later select a mount point which uses a different data format, FieldGenius will change this setting to match the selected mount point's data format.

Press the Setup button to set the network parameters.

Correction Link – Modem Setup

Mobile Settings 123 ?

Connection Method: NTRIP ▼

Network Options

Model	Default
Internet User ID	wapuser1
Internet Password	wap
Internet APN (GSM)	internet.com

NTRIP Options

User ID	...
---------	-----

OK

Mobile Settings 123 ?

Connection Method: NTRIP ▼

Internet Password	wap
Internet APN (GSM)	internet.com

NTRIP Options

User ID	...
Password	...
IP Address	...
TCP/IP Port	...

OK

Select NTRIP as the Connection Method at the top of the screen.

Under Network Options, enter the login information which is used to connect your modem to the internet.

Under NTRIP Options, enter the login information which is used to connect FieldGenius to your NTRIP server.

(Scroll down so you do not miss any settings further down the page).

Pick on "OK," then "Connect"

After about a minute you will be prompted to Request a Mountpoint list.

Mount Point List

Mount Point	Identifier	Format	Format Data
CMR01	CMR correction	CMR	0(1) 1(10)
CMRVR	CMR VRS	CMR	0(1) 1(10)
RT3V	VRS RTCM3	RTCM30	1004(1) 1006
SOK01	FirstReferenceSt	RTCM23	3(17) 20(1) 2
SOK03	RTCM3.0 correc	RTCM30	1004(1) 1006
TEST1	VRS RTCM3 Nev	RTCM30	1004(1) 1006
TESTG	VRS RTCM3 req	RTCM30	1004(1) 1006
VRS01	VRS	RTCM23	3(17) 20(1) 2

Select Highlighted Select Nearest **X** Close

Highlight the desired mount point that you want to connect to then press the **Select Highlighted** button.

Or press the **Select Nearest** button to have FieldGenius determine which mount point is located closest to the rover's current position, and connect to it.

You will get a message indicating which Mount Point was connected to. Press **Continue** on this message.

Correction Information

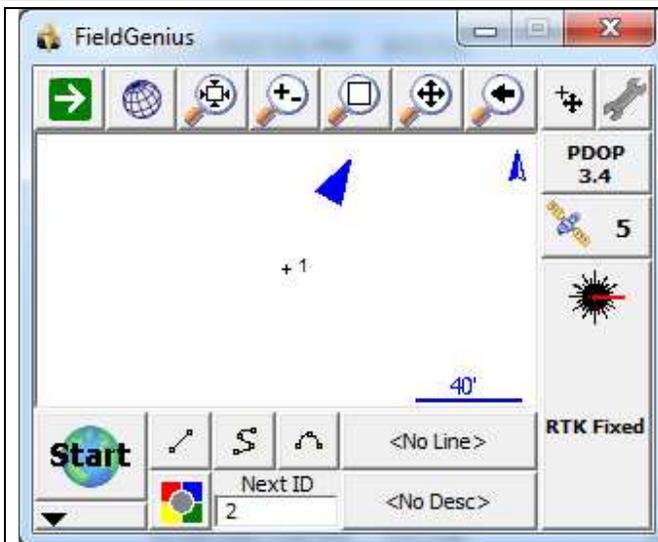
Status	
Message Type	RTCMV3
Message Count	44708
Message Age	2.0 sec
Message Quality	
Message Info	Connected to internet
Reference	
Identification	110
Latitude	N 49° 49' 44.00753"
Longitude	W 119° 33' 32.76000"

NTRIP MP List Disconnect MP **X** Close

You will be returned the Correction Information screen, where you should see the Message Count increasing and the Message Age getting smaller.

Press the **Close** button to return to the map screen, and you should now have an RTK solution.

RTK Solution



When you get to the map screen, you will see the current solution cycle from "Autonomous" to "RTK Fixed"