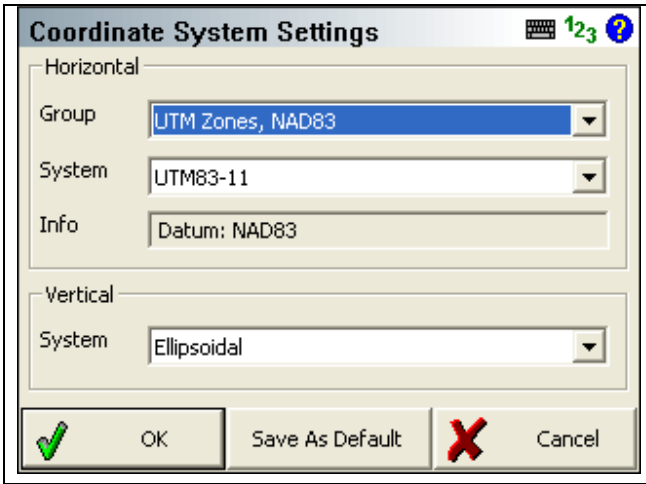
Sokkia GRX1 – Rover Configuration

You must be using EVR 7.1.1, FieldGenius 2010 v4.3.4 or newer.

Start | Settings | Coordinate System

Coordinate System Settings



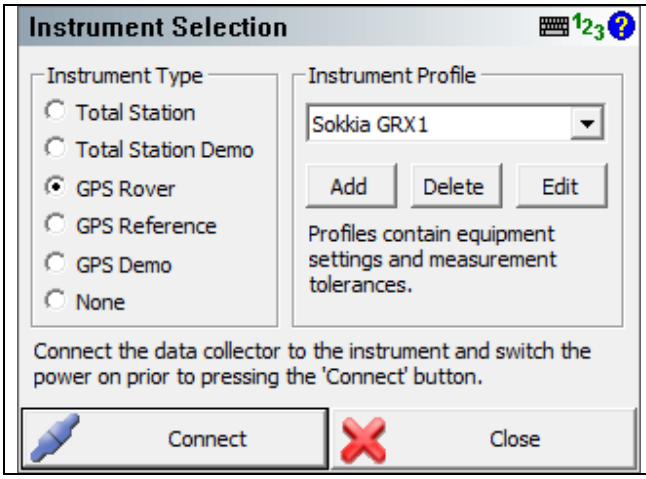
You will be prompted to assign a coordinate system when you start a new project.

You will be prompted to assign a coordinate system when you start a new project. Choose the datum settings for your location.

Use the Datum Grid Editor that is available from our Support Helpdesk or load a byn file from your local Geodetic authority if you need to use a geoid referenced vertical system, but Ellipsoidal is sufficient for testing.

Start | Settings | Instrument Selection

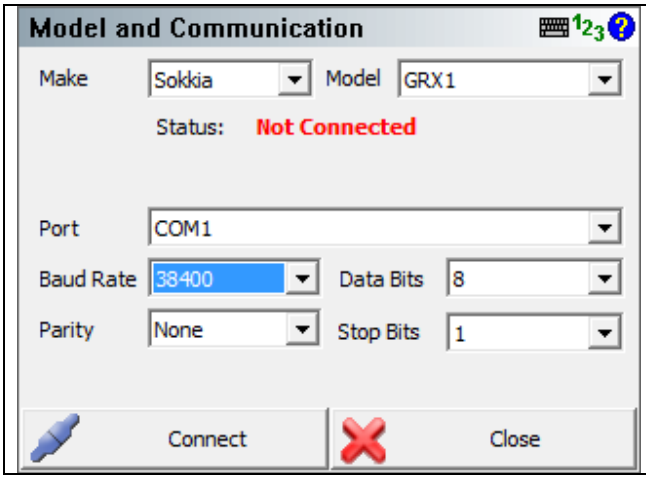
GPS Rover Profile



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

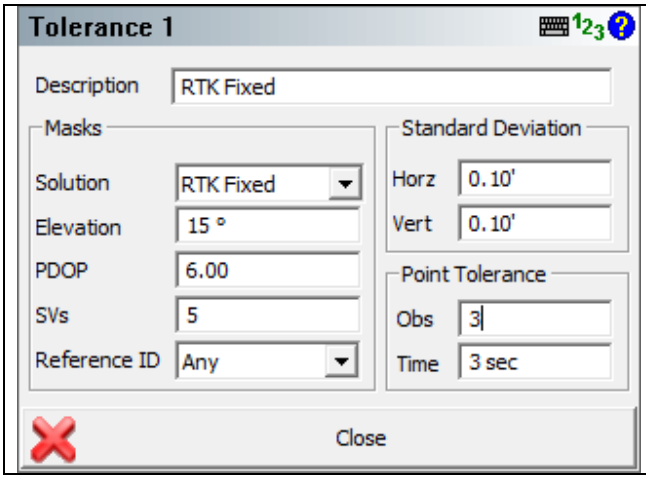


The default com settings when using a cable are shown.

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

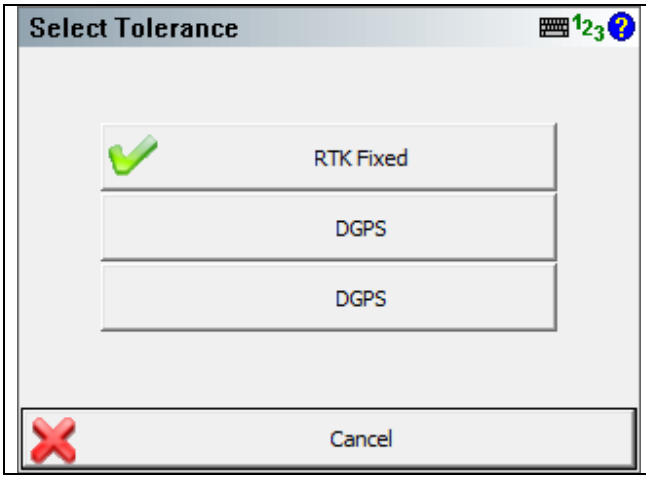


There are three different tolerance modes that can be set.

Configure the three tolerance modes based on your needs.

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

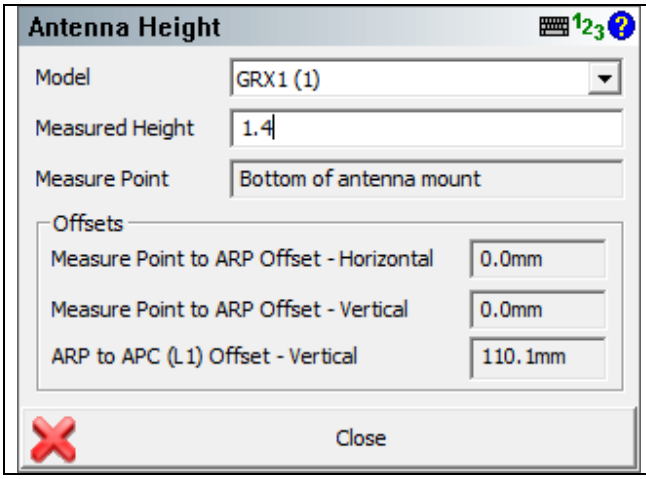
Active Tolerance Mode



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



Select the correct antenna model from the list.

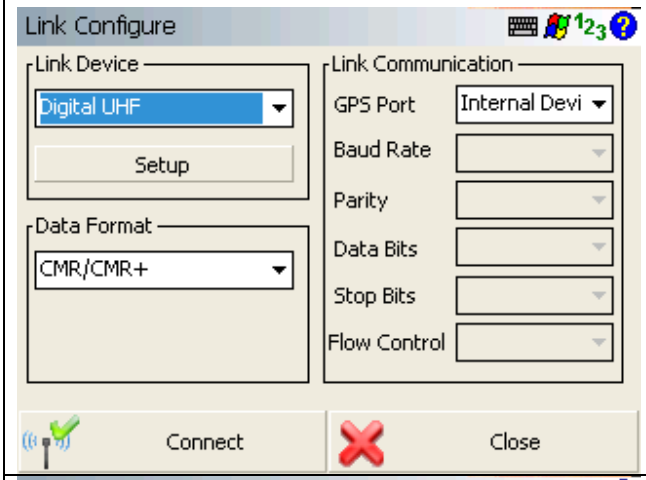
You should always confirm the antenna offsets to those published for your receiver.

Select User Defined to enter your own offsets if required.

To configure the radio you will need to set up and power on the equipment, program the base, power up the rover, head outside where you have a good view of the sky and pick “Connect” from the “Instrument Selection” Screen.

Now you can configure your correction link:

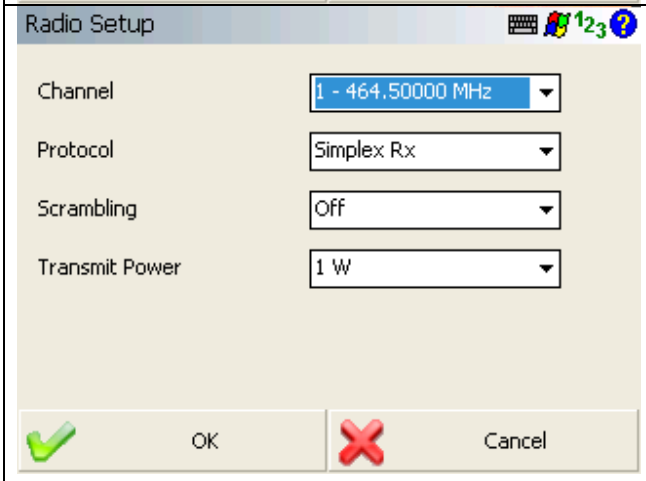
Correction Link



Always confirm the radio settings with your dealer.

Choose the data format you want to use. This must match the correction type being broadcast by the base receiver.

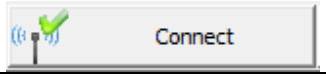
Press the Setup button to set the radio parameters.



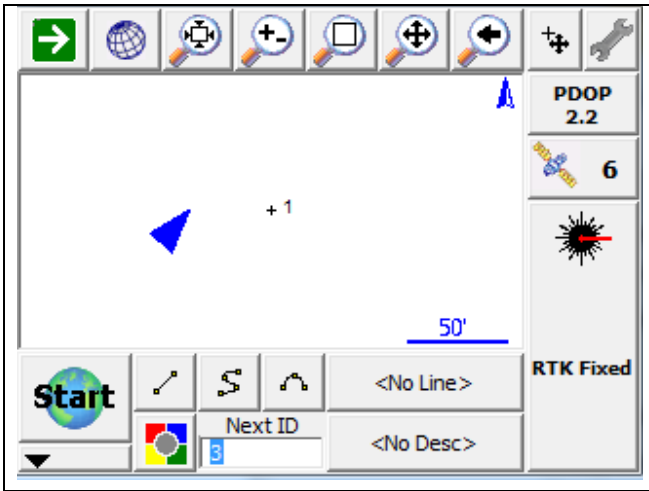
Select a frequency or channel. This must match the frequency which the base receiver is broadcasting on.

Select an “Rx“ protocol for the rover to match the “Tx” protocol selected for the base.

Pick on “OK” and in the Link Configure Screen, pick “Connect:”



RTK Solution



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

See your position by picking on the “Globe” button.

Pick the “Wrench” icon and access “Link Information” to confirm that you are receiving messages over the radio.

