Sokkia GRX1 – Base Configuration

You must be using FieldGenius 2010 v4.3.4 or newer.

Coordinate System Settings

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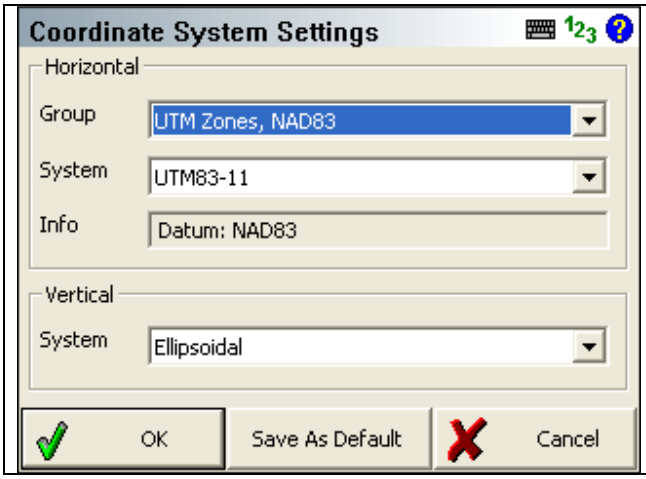


Run FieldGenius and start a new project.

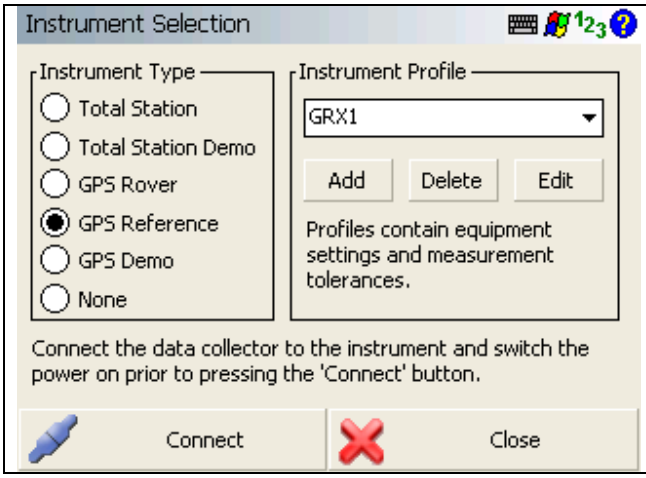
You will be prompted to assign a coordinate system when you start a new project.

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.

Instrument Selection Settings

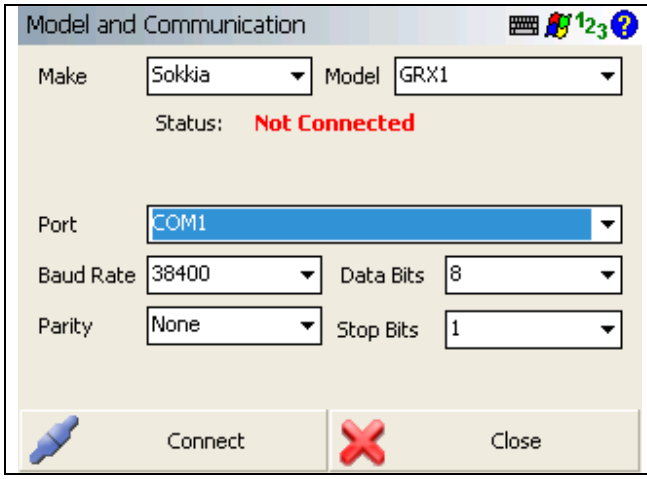
GPS Reference Profile



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

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

Model and Communication

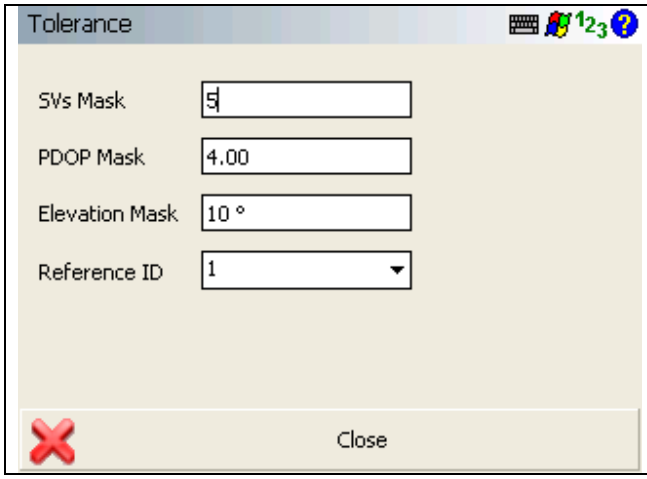


The default com settings when using a cable are shown.

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.

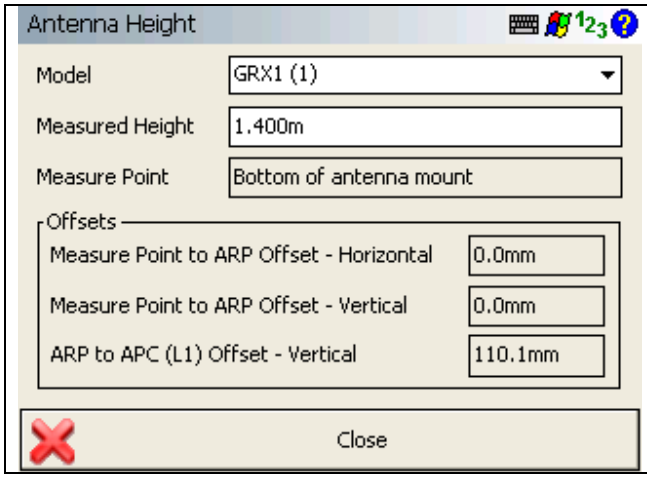
Other devices will require you to create a Bluetooth partnership and then set the com port to match the partnership.

Tolerance Mode



Configure the tolerances for the base receiver based on your needs.

Antenna Height



Select the correct antenna model from the list.

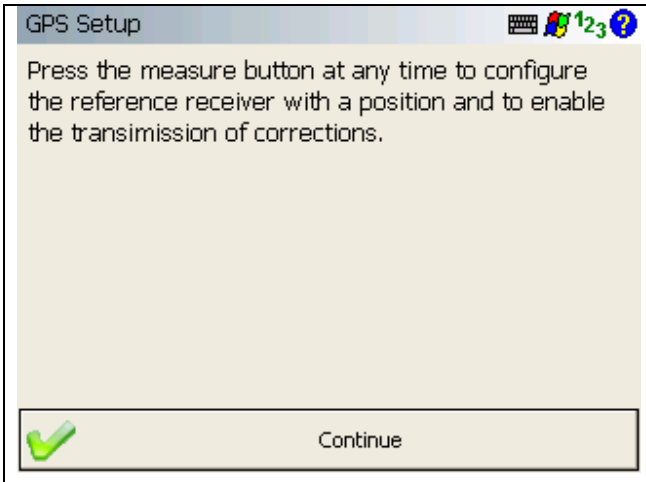
You should always confirm the antenna offsets to those published for your receiver.

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, head outside where you have a good view of the sky and pick “Connect” from the “Instrument Selection” Screen.

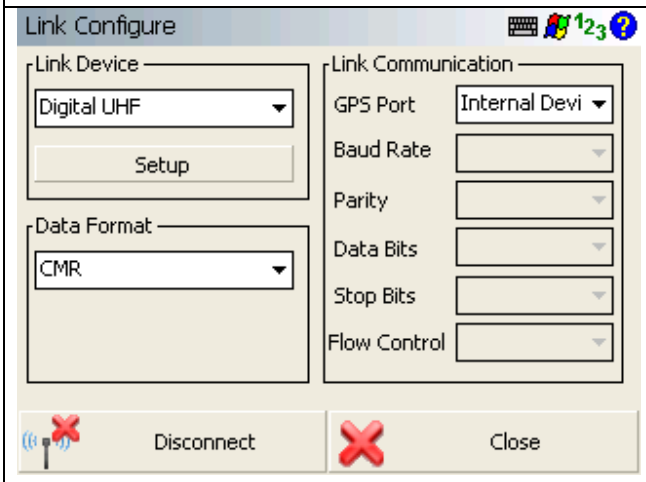
Now you can configure your correction link:

Correction Link



You will see several prompts after you connect with the instrument:

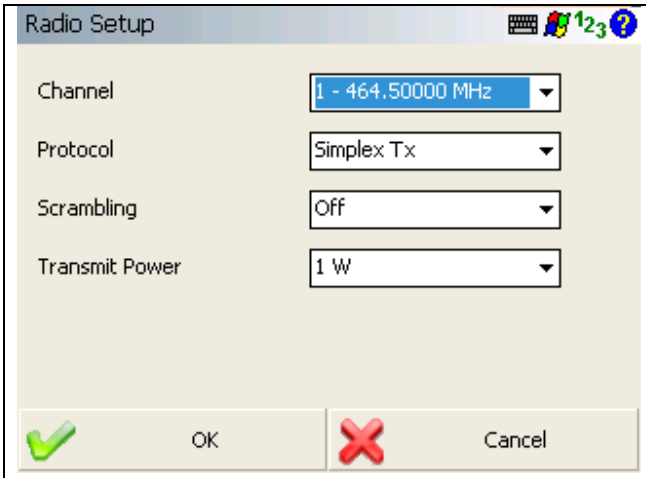
- You will see the prompt to initialize raw data logging. This is only necessary if you are collecting static observations at your base for later post-processing. In this case select “No.”
- You will be reminded to press the measure button to configure the base. Please refer to your FieldGenius manual for an explanation of the various methods. You can start the reference by closing dialogs until you can access mapview.



Once the base is configured you will be prompted to configure your modem connection settings. Always confirm the radio settings with your dealer. These settings can later be accessed in “Link Configure” via the “Wrench” icon in Mapview.

Choose the data format you need to use. Both the base and rover must be set to the same message type.

Press the **Setup** button to set the radio parameters.



Select a frequency or channel. The rover must later be configured to match.

Select a “Tx“ protocol for the base.

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

You can then disconnect your data collector from the Base receiver, and move on to the Rover receiver. If you connected via Bluetooth, access “Sensor Configure” via the “Wrench” icon in Mapview and switch instruments.

