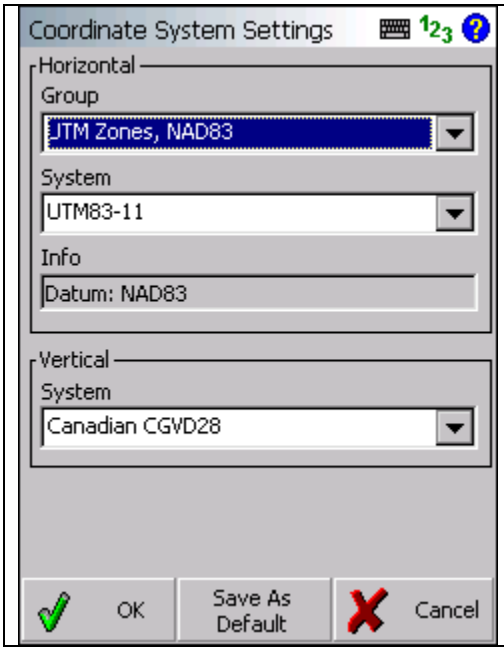
Magellan Promark 500 – Rover (PDL Radio)

You must be using FieldGenius 2008 v4.0.5 or newer.

Start | Settings | Coordinate System

Coordinate System Settings



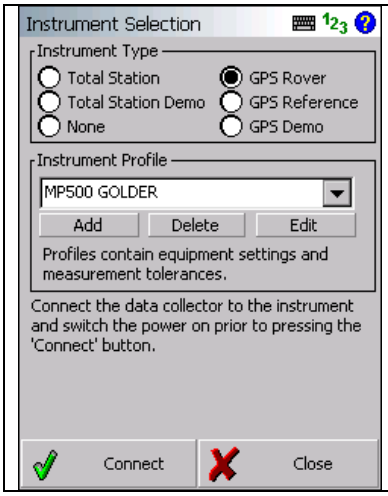
Access this screen by going to Start | Settings | Coordinate Systems.

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 on the FieldGenius CD that was shipped with FieldGenius or download it from our Support Helpdesk.

Start | Settings | Instrument Selection

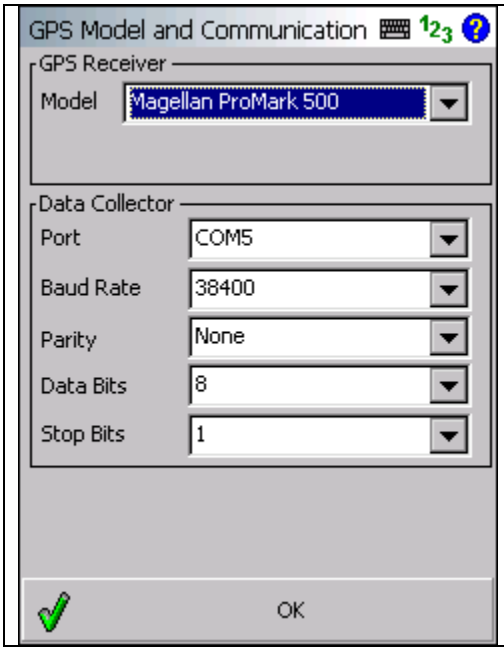
GPS Rover Profile



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

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

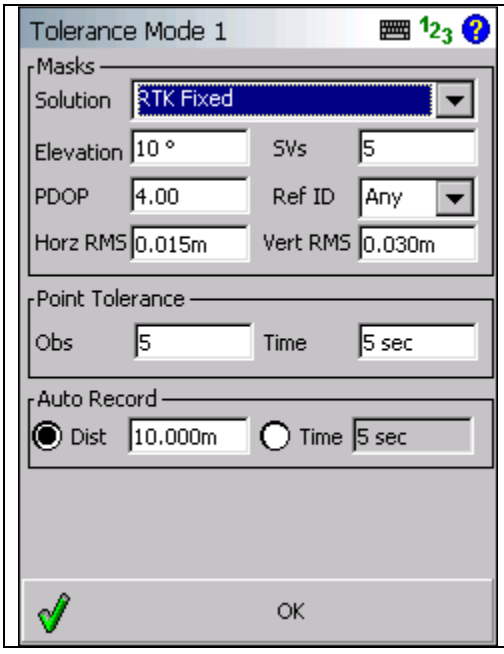
Model and Communication



In our example we have it set to COM5 because we are using a Bluetooth connection to connect to the rover. For your data collector, the COM port could be different.

If using a cable, use COM1.

Tolerance Modes 1-3

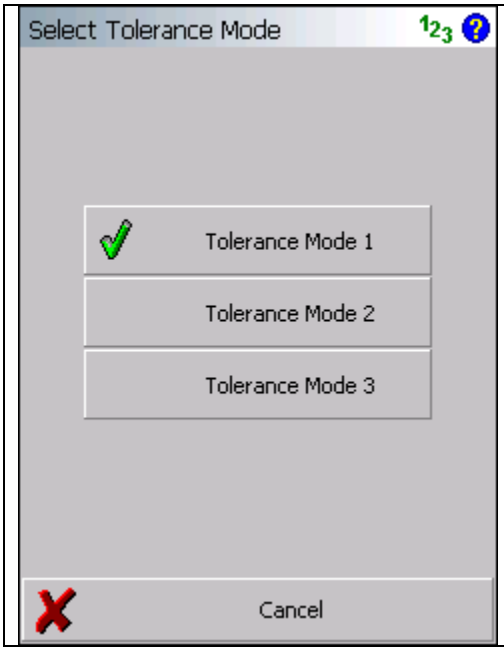


There are three different tolerance modes that can be set.

Configure the three tolerance modes based on your needs.

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

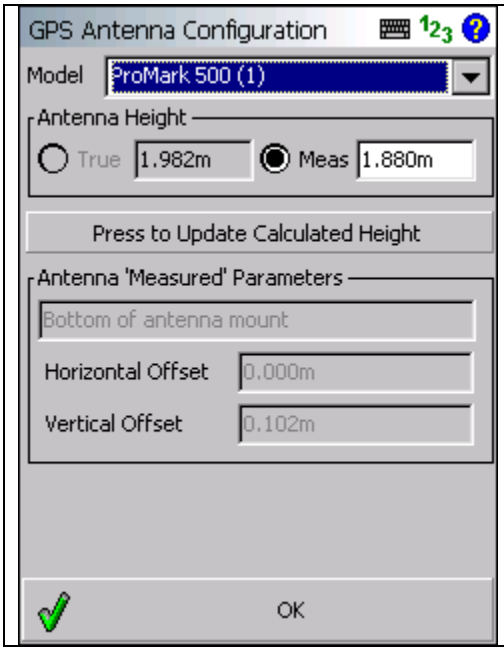
Active Tolerance Mode



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

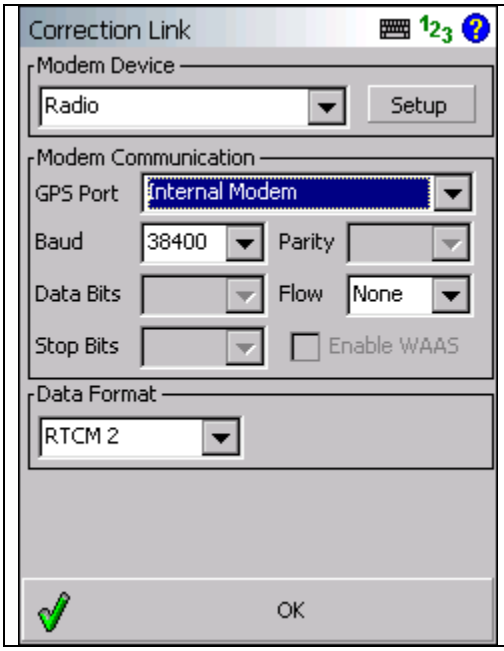


Select the correct antenna model from the list.

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

Select User Defined to enter your own offsets if required.

Correction Link

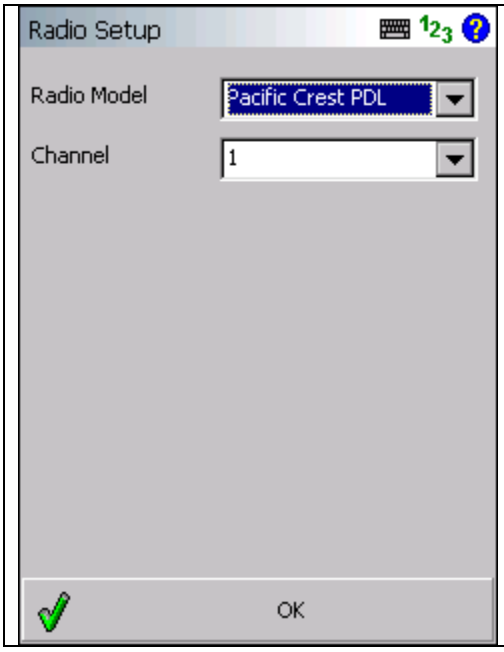


Always confirm the modem settings with your dealer. For our example we used the built in

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 NTRIP



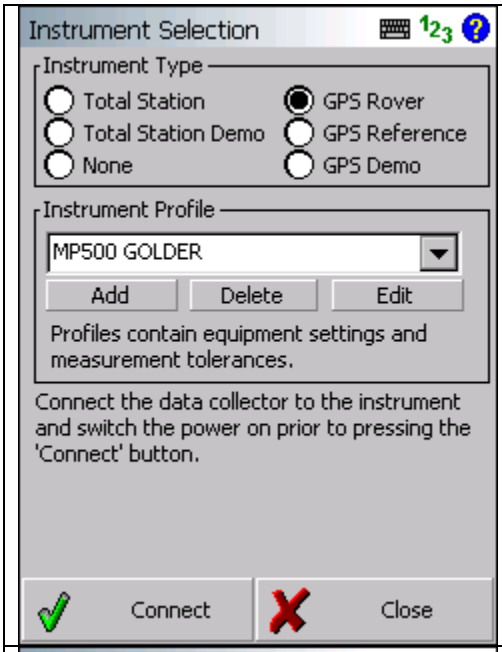
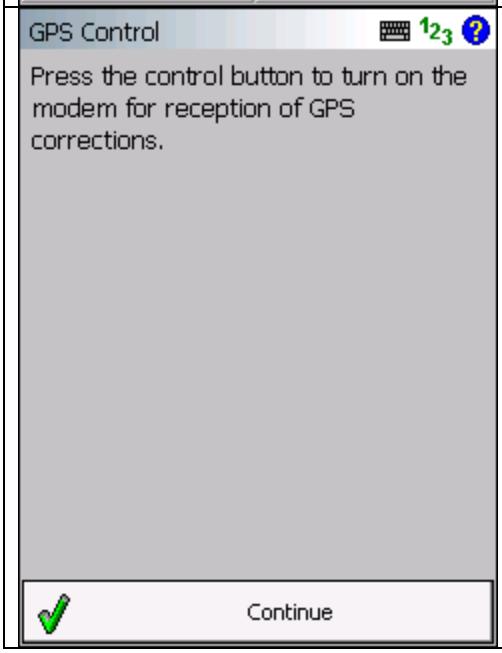
Select your Radio Model from the list.

Enter your Frequency or channel as required.

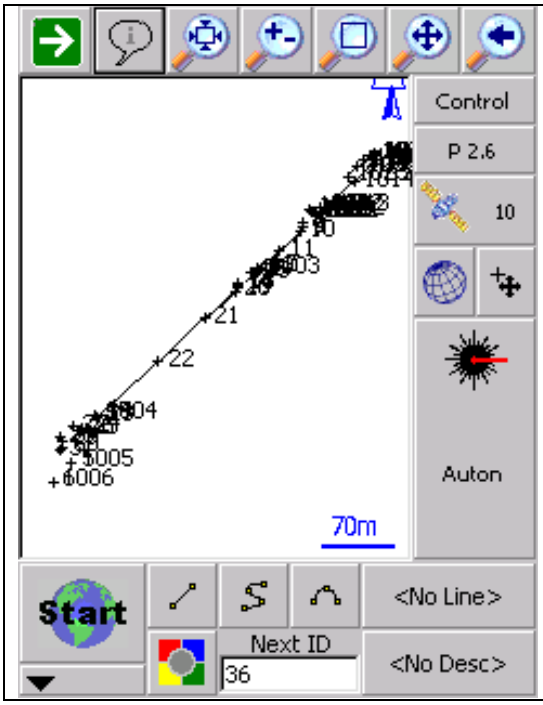
You must ensure that you use the same settings on the rover receiver. If the radio parameters (channel or frequency) don't match you will not receive any corrections at the rover.

Connect to your Rover

Connect to the GPS Receiver (Autonomous Solution)

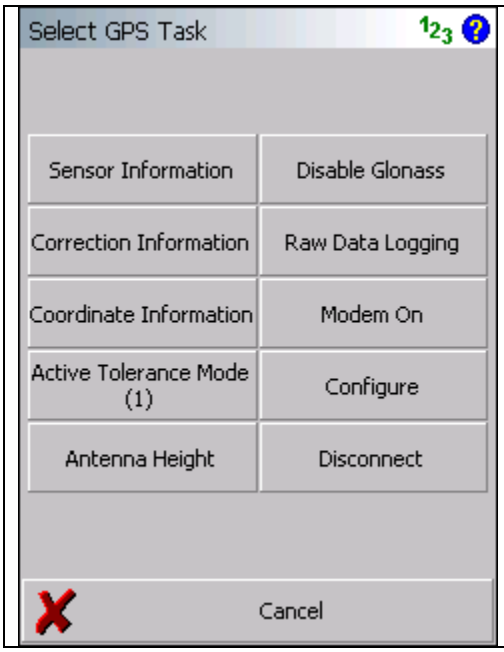
		On the Instrument Selection screen, select your GPS Rover profile and press the Connect button.
		After it connects, you will see the following message reminding you to turn on the modem through the Control screen. Press **Continue**. When you get to the map screen, you will see the current solution type as “Auton” for Autonomous.

Receive Corrections Messages (RTK Solution)



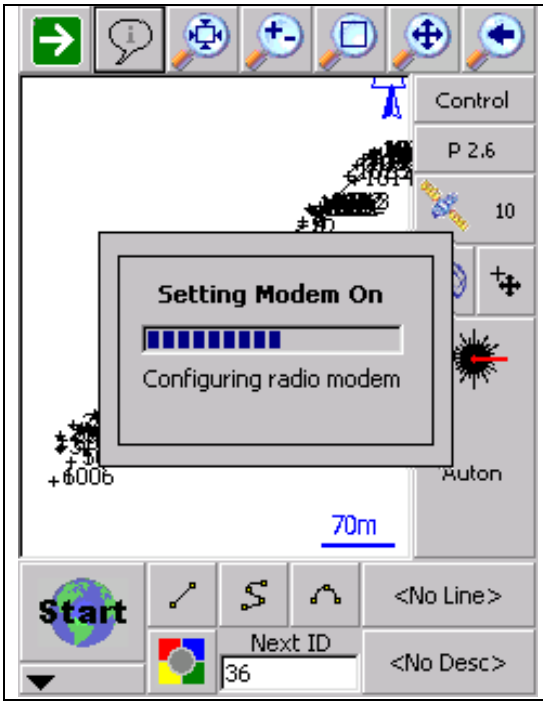
When you get to the map screen, you will see the current solution type as “Auton” for Autonomous.

Press the **Control** button.



In the Select GPS Task screen, press the **Modem On** button.

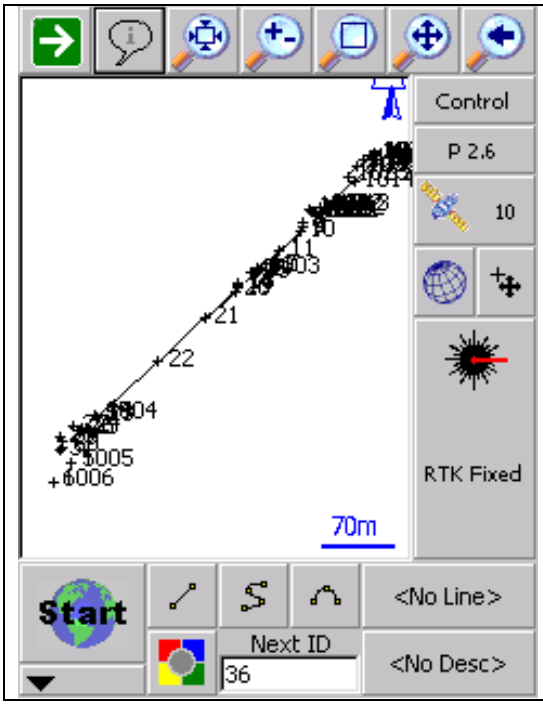
Press **Yes** on the confirmation screen that comes up.



You will see a progress dialog appear that indicates that the radio is currently being configured.

After it is configured you should soon see the Solution Type switch from **Autonomous** to **RTK Float** then **RTK Fixed**. It may take a moment while the receiver determines the fixed position.

You can also press the **Control** button then **Correction Information**, to see whether any correction messages are being received from the base.



You should soon see the Solution Type switch from **Autonomous** to **RTK Float** then **RTK Fixed**. It may take a moment while the receiver determines the fixed position.

You can also press the **Control** button then **Correction Information**, to see whether any correction messages are being received from the base.