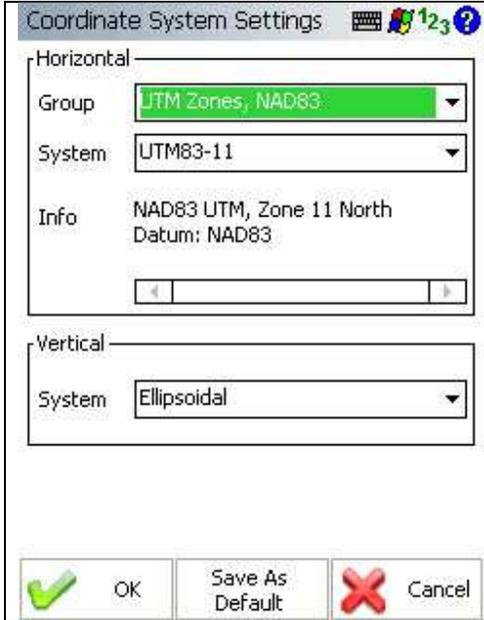


Pentax SMT 888 or G3100 R1 Base Configuration

You must be using FieldGenius 2011 v5.0.1.0 or newer.
This document was written using FieldGenius 2011 v5.0.1.0

Coordinate System Settings

Coordinate System Settings



Coordinate System Settings

Horizontal

Group: UTM Zones, NAD83

System: UTM83-11

Info: NAD83 UTM, Zone 11 North
Datum: NAD83

Vertical

System: Ellipsoidal

OK Save As Default Cancel

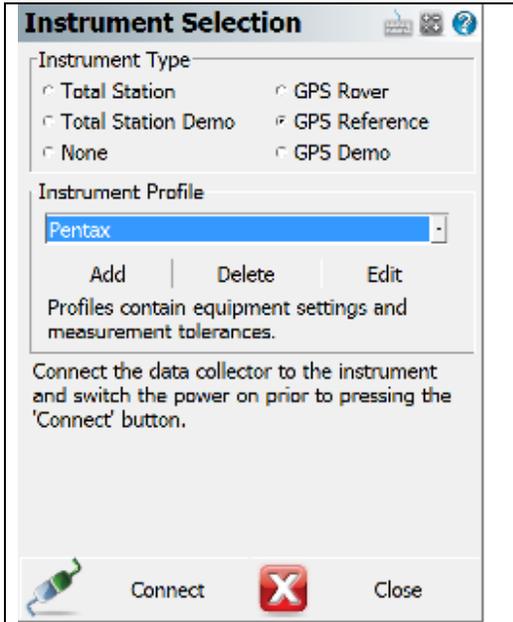
Access this screen by going to Start | Settings | Coordinate Systems.

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.

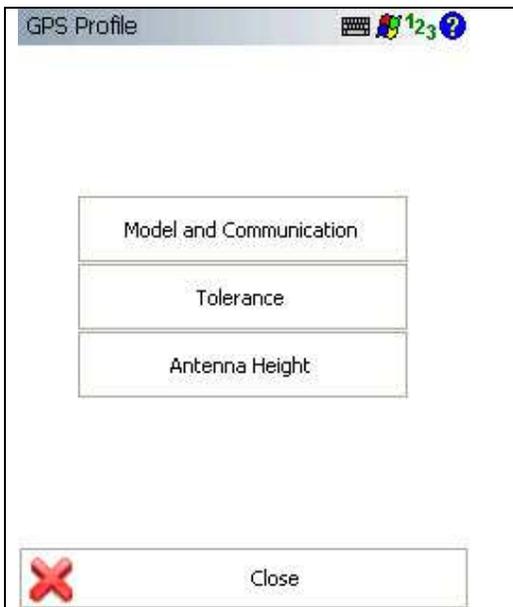
To do this, use the Datum Grid Editor that is available on the FieldGenius CD that was shipped with FieldGenius or download it from our Support Helpdesk.

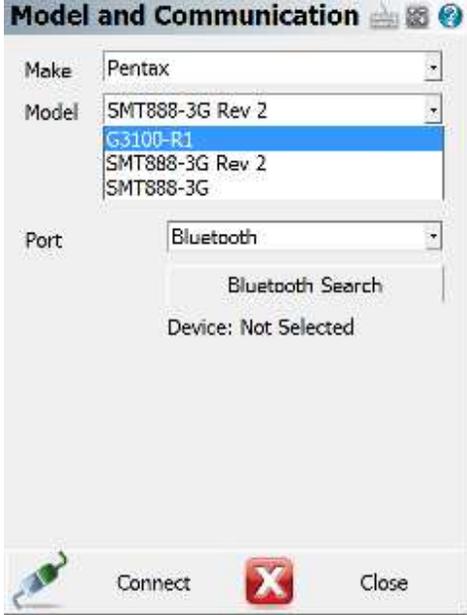
Instrument Selection Settings

GPS Reference Profile

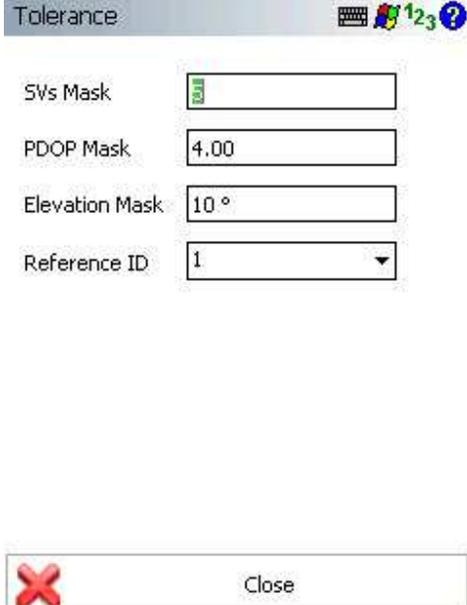
	<p>Access this screen by going to Start Settings Instrument Selection.</p> <p>To Add or Edit a GPS Reference profile that you created during your Instrument Profile Setup press Edit to access the profile settings.</p> <p>If you have not already created a profile, click Add to add your base station, save that profile then you can go in and Edit the setup.</p>
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Model and Communication

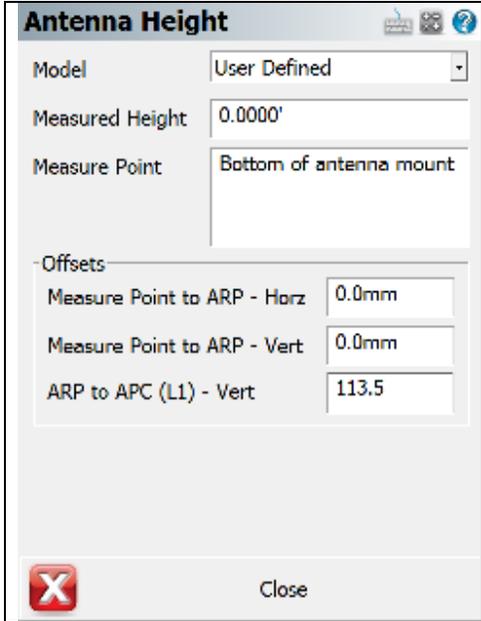
	<p>In the following menus you will be able to setup or modify your Instrument Settings, Connection Settings, Tolerance and Antenna Height</p> <p>You can return to this menu after each individual selection by tapping the “close” button</p> <p>To begin editing your profile, tap on Model and Communication</p>
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	<p>Pick Pentax from the Make drop down. Select the appropriate Model Driver. Check the Serial Number to determine the correct SMT888-3G version:</p> <p>SMT810XXX = SMT888-3G SMT811XXX = SMT888-3G Rev 2</p> <p>Choose your desired communications port COM 1 to 10 or Bluetooth as required.</p> <p>Typical serial cable connection will use COM 1.</p> <p>For the purpose of this example we are going to be using a wireless Bluetooth connection. The device shows as “not selected” as we have not searched for the device.</p> <p>If you have not already done so you can initiate a Bluetooth connection search by tapping “Bluetooth Search”. This will allow you to find all active devices within connection range.</p>
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Tolerance Mode

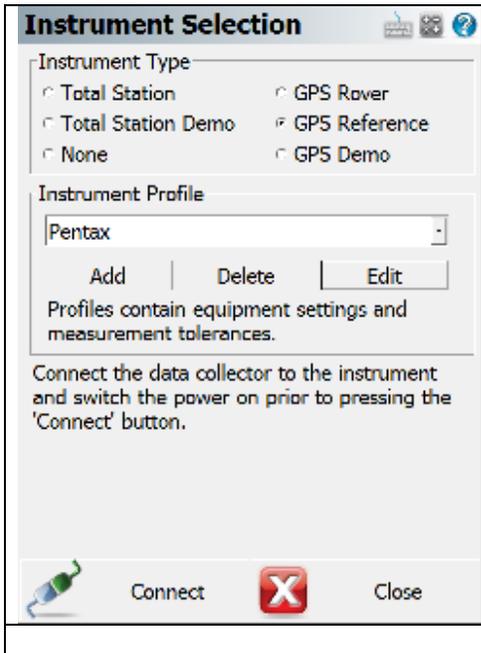
	<p>In this menu you can configure the tolerances for the base receiver.</p> <p>Please consult your equipment manufactures guide for variations in these settings. If conditions in the field do not meet these minimal settings the Base will not transmit a correction link.</p>
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Antenna Height

	<p>Consult your receiver documentation for the specifications in the Antenna Height dialog.</p>
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Connect to your Base Receiver

Connect to the GPS Base Receiver

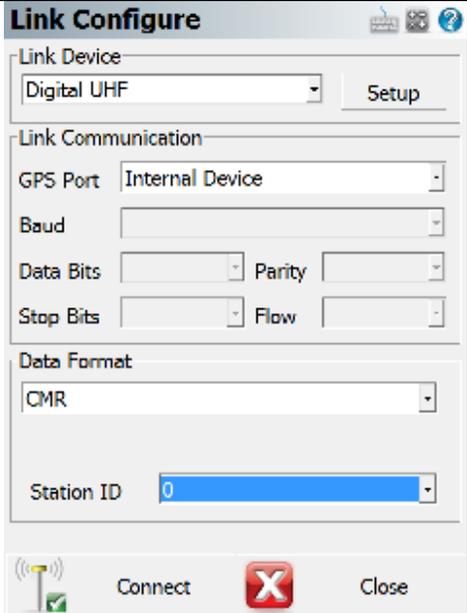
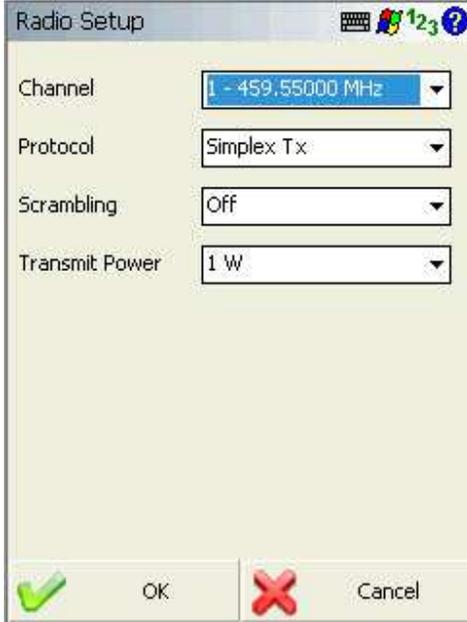
	<p>You are now ready to connect to your base receiver.</p> <p>On the Instrument Selection screen, select your Pentax Reference profile and press the Connect button.</p>
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Program the Base Position

<p>GPS Control    </p> <p>Press the measure button at any time to configure the reference receiver with a position and to enable the transmission of corrections.</p> <div data-bbox="235 751 695 812">  Continue </div>	<p>Once you are past this screen and back to the map screen, press the Measure button to program the base position.</p> <p>Please refer to your FieldGenius manual for an explanation of the various methods for programming the base.</p> <p>The base receiver will then begin transmitting its correction messages.</p> <p>You can continue setting up your correction link as described below.</p>
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Correction Link

<p>Instrument Settings    </p> <ul style="list-style-type: none">  Sensor Configure  Sensor Information  Link Configure  Link Information  Position Information  Raw Data Logging  Instrument Disconnect <div data-bbox="235 1480 695 1539">  Cancel </div>	<p> You can access the Link Configuration menu from the “Instrument Settings” Icon on the Map Screen</p> <p>From this menu you will be able to affect all of your Modem and Radio configurations/settings</p> <p>Tap on the “Link Configure” menu to begin.</p>
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	<p>Choose Spread Spectrum (900MHz) radio or Digital UHF internal radio from drop down menu.</p> <p>Always confirm the radio settings with your dealer.</p> <p>Select “Internal Device” from the GPS Port menu to choose the internal radio as your linking device.</p> <p>At this time you can also choose the Data Format you wish to use such as RTCM, CMR or other.</p> <p>*CRITICAL STEP: Both the base and rover must be set to the same message type.</p> <p>Press the Setup button to set the radio parameters.</p>
	<p>Here you can set your radio Frequency</p> <p>*CRITICAL STEP: Both the base and rover must be set to the same frequency. Pentax UHF radio range is 450-470MHZ</p> <p>You can choose your Protocol type from the dropdown menu provided. The default is Simplex Tx.</p> <p>Should you choose to scramble your radio signal you can choose anywhere in the range from 1 to 255</p> <p>You can adjust your desired radio wattage from the drop down menu as required. Pentax internal radios can be set up to 1 watt.</p> <p>Click ok to continue and then Connect.</p> <p>Disconnect your data collector from the Base receiver and move on to the Rover receiver setup.</p> <p>If you connected via Bluetooth, press the Control button then Disconnect.</p>