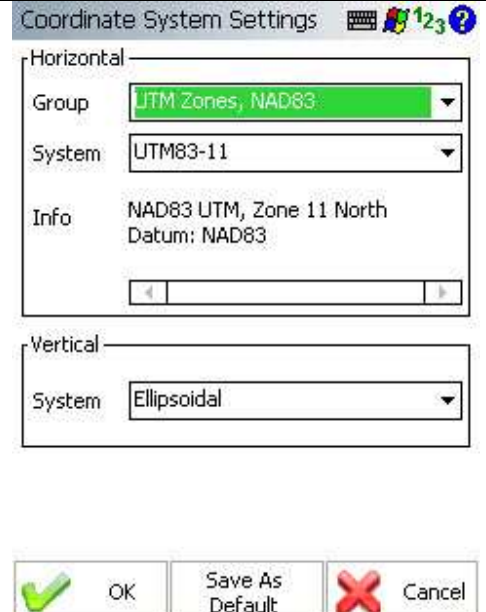


Altus APS3 – Base Configuration

You must be using FieldGenius 2010 v4.3.0 or newer.
This document was written using FieldGenius 2010 v4.3.0.11

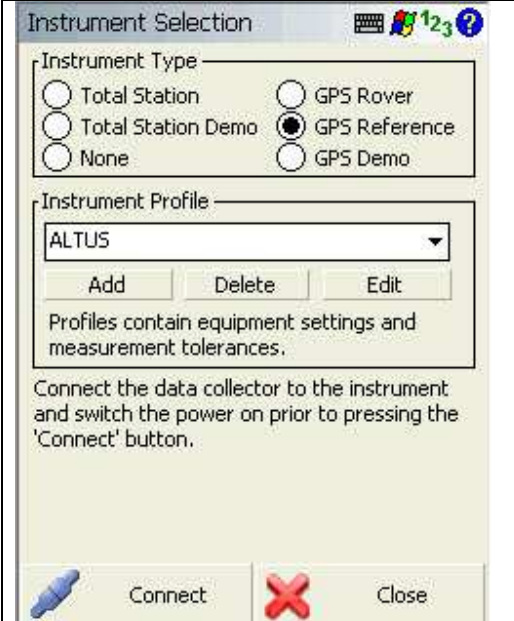
Coordinate System Settings

Coordinate System Settings

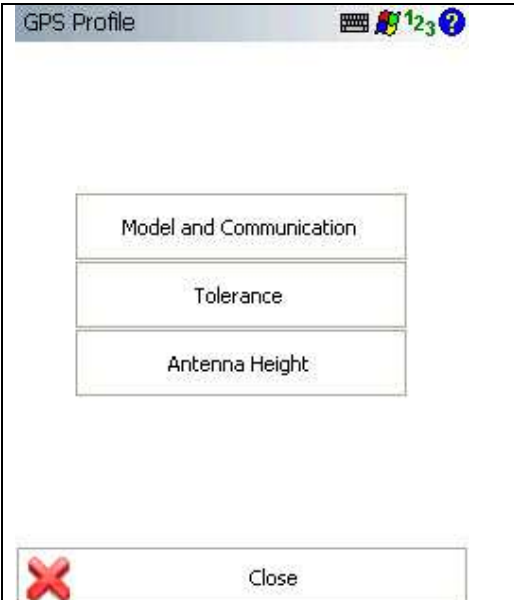
	<p>Access this screen by going to Start Settings Coordinate Systems.</p> <p>Choose the datum settings for the area the GPS receiver is in. Note: You usually need to extract the grid (geoid) files for your area before using FieldGenius.</p> <p>To do this, use the Datum Grid Editor that is available on the FieldGenius CD that was shipped with FieldGenius or download it from our Support Helpdesk.</p>
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Instrument Selection Settings

GPS Reference Profile

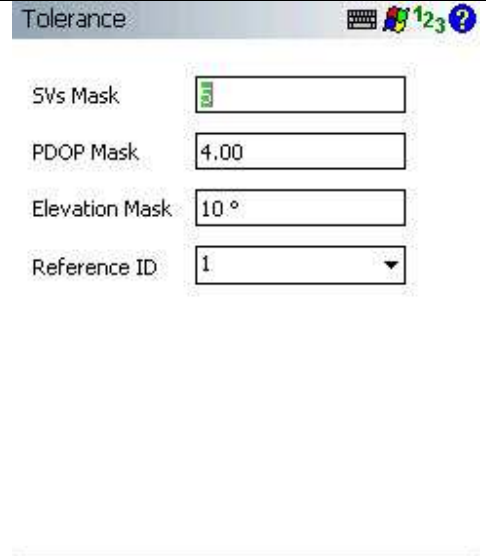
 <p>Instrument Selection</p> <p>Instrument Type</p> <p><input type="radio"/> Total Station <input type="radio"/> GPS Rover</p> <p><input type="radio"/> Total Station Demo <input checked="" type="radio"/> GPS Reference</p> <p><input type="radio"/> None <input type="radio"/> GPS Demo</p> <p>Instrument Profile</p> <p>ALTUS</p> <p>Add Delete Edit</p> <p>Profiles contain equipment settings and measurement tolerances.</p> <p>Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.</p> <p>Connect Close</p>	<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 it 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 an edit the setup.</p>
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Model and Communication


 <p>GPS Profile</p> <p>Model and Communication</p> <p>Tolerance</p> <p>Antenna Height</p> <p>Close</p>	<p>In the following menus you will be able to setup or modify your Instrument Profile, 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 the Model and Communication</p>
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	<p>Check your Altus Serial Number. Choose the APS-3 model if your serial number is lower than 20XXX Choose the APS-3 Rev 2 model if your serial number is higher than 20XXX</p> <p>Choose your desired communications port COM 1 to 10 or Bluetooth as required. Consult your data collector setup guide to find out which COM port your device works best with and match this setting.</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 requires.</p> <p>Please consult your equipment manufactures guide for variations in these settings</p>
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Antenna Height





<p>Antenna Height</p> <p>Model: <input type="text" value="Altus APS-3 (1)"/></p> <p>Measured Height: <input type="text" value="0.000m"/></p> <p>Measure Point: <input type="text" value="Bottom of antenna mount"/></p> <p>Offsets</p> <p>Measure Point to ARP - Horz: <input type="text" value="0.0mm"/></p> <p>Measure Point to ARP - Vert: <input type="text" value="0.0mm"/></p> <p>ARP to APC (L1) - Vert: <input type="text" value="113.5mm"/></p> <p> Close</p>	<p>Select the correct antenna model from the list. There are 2 default antenna selections for the Altus APS3 unit. (each will describe it's measure point)</p> <p>You should always confirm the antenna offsets to those published for your receiver.</p> <p>You can always select User Defined to enter your own offsets as required.</p>
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Connect to your Base Receiver













Connect to the GPS Base Receiver

<p>Instrument Selection</p> <p>Instrument Type</p> <p><input type="radio"/> Total Station <input type="radio"/> GPS Rover</p> <p><input type="radio"/> Total Station Demo <input checked="" type="radio"/> GPS Reference</p> <p><input type="radio"/> None <input type="radio"/> GPS Demo</p> <p>Instrument Profile</p> <p><input type="text" value="ALTUS"/></p> <p>Add Delete Edit</p> <p>Profiles contain equipment settings and measurement tolerances.</p> <p>Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.</p> <p> Connect  Close</p>	<p>You are now ready to connect to your base receiver.</p> <p>On the Instrument Selection screen, select your Altus APS3 GPS 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> <p> Continue</p>	<p>Once you are past this screen and get 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.</p> <p>The base receiver will then begin transmitting its correction messages.</p> <p>You can continue on setting up your correction link as described below or you can then 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>
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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 <p> Cancel</p>	<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>Altus APS3 units can communicate via three methods: Spread Spectrum (900MHz) radio, Digital UHF internal radio (choose from drop down menu). Or be set up for GSM/GPRS modem RTK network.</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. Altus UHF radio range is 450-470MHZ</p> <p>You can choose your Protocol type from the dropdown menu provided. Altus default is Simplex.</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. Altus radios can be set up to 1 watt.</p> <p>Click ok to continue and close to return to the map screen.</p>