

Leica RX1250 Rover GPRS Connection

Profile Settings

Model and Communication

<div style="border: 1px solid gray; padding: 5px;"> <p style="margin: 0;">GPS Model and Communication 123 ?</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid gray; padding: 5px;"> <p>GPS Receiver</p> <p>Model</p> <p style="border: 1px solid gray; padding: 2px;">Leica SmartRover</p> </td> <td style="width: 50%; padding: 5px;"> <p>Data Collector</p> <p>Port: SmartWorx</p> <p>Baud Rate: 115200</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p> </td> </tr> </table> <p style="margin-top: 10px; text-align: center;"> OK </p> </div>	<p>GPS Receiver</p> <p>Model</p> <p style="border: 1px solid gray; padding: 2px;">Leica SmartRover</p>	<p>Data Collector</p> <p>Port: SmartWorx</p> <p>Baud Rate: 115200</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p>	<p>The default baud rate for the Leica RX1250 is 115200. To use the Bluetooth connection to connect to the Smart Antenna, simply choose SmartWorxs at the port.</p> <p>FieldGenius will automatically find the antenna and establish a Bluetooth connection so there isn't anything else to do here.</p>
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Configure Tolerance Modes

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Active Tolerance Mode

	<p>Here you can set the default tolerance mode when you first connect to the rover.</p> <p>Once connected you can switch between them on the GPS Control menu.</p>
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Antenna Height

	<p>You should always confirm the antenna offset to those published for your receiver and select the correct model from the list.</p> <p>For the Smart Antenna, you will select the SmartRover Antenna. The Horizontal and Vertical offsets displayed in the Antenna Parameters cannot be changed, these are hard coded values. In this area we also display where you should measure to, in this example you would measure from the tip of the pole to the bottom of the antenna mount.</p> <p>In our example, the user measured 2.0 meters exactly from the tip of rod to the bottom of the antenna mount. Once you enter this value, you need to press the "Update Calculated Height" button so that FieldGenius will compute a true height to the phase center of the antenna.</p>
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Correction Link

Correction Link

Mode: **Mobile** Setup

Enable WAAS

Message Type: **RTCM 18,19,1**

RTCM Version: **2.3**

Link Communication:

GPS Port: **Clip-On**

Baud Rate: []

Parity: []

Data Bits: []

Stop Bits: []

Flow Control: []

OK

When working with the Smart Antenna, you need to set the GPS Port to "Clip-on".

Depending on how you will be receiving your corrections, select either Radio or Mobile.

To receive connections over the internet you will use Mobile.

Choose the message type you want to use such as CMR or RTCM.

Press the Setup button to set the mobile parameters.

Correction Link – Mobile Setup

Mobile Settings

Connection Method: **GPRS**

Mobile Options

Model	Siemens MC75
Internet User ID	wapusers1
Internet Password	wap
Internet APN (GSM)	internet.com

GPRS Options

Network Type	Nearest
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OK

The first thing you need to know is what type of connection method you want to use, either Direct Dial, GPRS or NTRIP.

For both GPRS and NTRIP connection, the settings are relatively the same. For both connection methods, you need to choose the modem you're using, then define the login information for your internet connection.

Secondly, you need to define the GPRS or NTRIP server settings.

Datum Settings

GPS Datum

Horizontal:

Group: **JTM Zones, NAD83**

System: **UTM83-11**

Info: **Datum: NAD83**

Vertical:

System: **Canadian CGVD28**

OK

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.

You can access this screen by going to Start | Settings | Coordinate Systems