

# Sokkia GSR 2600 – Base Configuration

At the time this document was created (October 29, 2005), the GSR 2600 receiver we used for testing had the following firmware:

Firmware:  
OEM Version 2.111  
Control Version 1.403

## Profile Settings

### Model and Communication

<p><b>GPS Model and Communication</b> <span style="float:right">? Help</span></p> <table border="1"><tr><td><b>GPS Receiver</b></td><td><b>Data Collector</b></td></tr><tr><td>Model Sokkia GSR2600</td><td>Port COM1</td></tr><tr><td>Port COM 1</td><td>Baud Rate 9600</td></tr><tr><td></td><td>Parity None</td></tr><tr><td></td><td>Data Bits 8</td></tr><tr><td></td><td>Stop Bits 1</td></tr></table> <p> <span style="float:right">OK</span></p>	<b>GPS Receiver</b>	<b>Data Collector</b>	Model Sokkia GSR2600	Port COM1	Port COM 1	Baud Rate 9600		Parity None		Data Bits 8		Stop Bits 1	<p>The default baud rates for COM 1 (data collector port) and COM 2 (radio port) is 9600,N,8,1</p>
<b>GPS Receiver</b>	<b>Data Collector</b>												
Model Sokkia GSR2600	Port COM1												
Port COM 1	Baud Rate 9600												
	Parity None												
	Data Bits 8												
	Stop Bits 1												

### Configure Reference

<p><b>GPS Reference</b> <span style="float:right">? Help</span></p> <table border="1"><tr><td>SVs Mask</td><td>3</td></tr><tr><td>PDOP Mask</td><td>6.00</td></tr><tr><td>Elevation Mask</td><td>10 °</td></tr><tr><td>Reference ID</td><td>1</td></tr></table> <p> <span style="float:right">OK</span></p>	SVs Mask	3	PDOP Mask	6.00	Elevation Mask	10 °	Reference ID	1	<p>These settings are to be set by the user to match their particular requirements.</p>
SVs Mask	3								
PDOP Mask	6.00								
Elevation Mask	10 °								
Reference ID	1								

## Antenna Height

GPS Antenna Configuration <span style="float: right;">? Help</span>	
Model	GP5600
Antenna Height	
<input type="radio"/> True	1.682 m
<input checked="" type="radio"/> Measured	1.670 m
Antenna 'Measured' Params	
Tape measure station	
Horiz Offset	0.096 m
Vertical Offset	0.015 m
Press to Update Calculated Height	
OK	

The user needs to select the correct antenna they are using with their GSR 2600. Once selected, enter the measured distance and press the "Update Calculated Height" button.

## Correction Link

Correction Link <span style="float: right;">? Help</span>	
Mode	Radio <span>Setup</span>
<input type="checkbox"/> Enable WAAS	
Message Type	
Message	CMR
RTCM Version	
Link Communication	
GPS Port	COM 2
Baud Rate	9600
Parity	None
Data Bits	8
Stop Bits	1
Flow Control	None
OK	

Radio Model Pacific Crest PDL

Channel 2

With this receiver we were using PDL radios which were set to 9600. This is why the baud rate here is set to match. 9600 is sufficient for correction broadcasting.

Press the Setup button to set the radio parameters. In our example, we set the channel to 2.

When you connect FieldGenius, you should see the radio channel blink on the radio, then see it get set to channel 2. If you don't, check the baud rate setting you used.

## Datum Settings

GPS Datum <span style="float: right;">? Help</span>	
Horizontal	Vertical
Group	System
UTM Zones, NAD83	Canadian CGVD28
System	
UTM83-11	
Info	
Datum: NAD83	
	OK

Choose the datum settings for the area the GPS receiver is in. Note: You usually need to extract the grid 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.