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## **SS900 Radio and Geodimeter Setup Guide**

Prepared: 7-20-2007

Here's the setup (using a null modem cable between the base and 600+):



A. Configure Total Station:



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This is the power supply. You can also use a battery pack.

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The cable from the power supply goes to the Geodimeter.





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At this point, you should have the 9-pin serial cable plugged into the data collector.



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After hitting PWR and calibrating the machine, this is the standard window:



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Now, press the MNU button on the Geodimeter keypad.



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Then click 4 on the keypad to take you to the Data com window:





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Then click 1. Select device, which brings you to this window:



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Then click 2. Serial:



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Click the ENT button on the keypad.



Click ENT again if the settings are correct. If they are not correct, then change them and click ENT.

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Now, after that you will come to this window:



Click ENT.



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Then this window will appear:



Click ENT again.



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Then you will be back at the first window which looks like this:



Now hit the RPU button, with the arrow pointing straight up.

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That will bring you to a window which looks like this:





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Then click 3. Remote which leads you to this screen:



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Then click 1. OK.

Your new window will look like this:



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Click the (  $\leftarrow$  ) or the No button (same button).

Then the window will look like this:

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Again, click the (  $\leftarrow$  )/No button.



Then you will be prompted to press any key and remove the keyboard. You must remove the keyboard:



- B. Configure Base Radio:
  - 1. Connect Explorer 600+ to base radio using included null modem cable.
  - 2. Start SurvCE and go to Equipment->Total Station Setup.
  - 3. Choose Manufacturer: Trimble 5600; Device: Dir Robotic or Dir Robotic DR Series.
  - 4. Go to Comms tab.
  - 5. Configure per screen below:

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Instrum	X	
Current Co	omms Settlings Search	h
Type:	Radio	•
Device:	55900	
Port:	COM 1	Defaults
Baud:	9600 <b>-</b> Parity	/: None 💌
Data Bits:	8 💽 Stop	Bits: 1

6. Press "configure" and input your base serial number (located on back of base radio) and choose the desired power level. Press green check box.

Configure SS900 Rad	io 🔽 🗙
Base S/N:	1000
Power:	1 Watt 🗾

7. Connect instrument to base radio.

## C. Configure Rover Radio:

1. In SurvCE on Comms cab change "Device" to Internal SS900 Radio. Com settings at bottom of dialog will grey out:

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😂 Instrument Setup 🛛 🔽						
Current Comms Settings Search RC						
Type:	Radio	<b>T</b>				
Device:	Internal Carlson	SS900 🔻 Configure				
Port:	COM 2	<b>v</b>				
Baud:	115200 💌	Parity: None 💌				
Data Bits:	8 🔻	Stop Bits: 1 💌				

2. Press "Configure" and configure per screen below. Serial number entered in step B6 above should match serial number entered here. Select power level:

Nonfigure SS900 Rad	io 🗸 🖌	×
Base S/N: Power:	1000 1 Watt	•

- 3. Press green check box to return to Comms tab.
- 4. Press green check box to establish communication and return to Equipment tab:



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5. Setup is now complete. You can start working.

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