Trimble 5600 Robotic Connection

Confirm Settings

Firmware Versions

To check your firmware version, press Menu 5, 4, 1.

Note: These are the firmware numbers of the instrument we used during testing:

Trimble 5600 DR200+ (Station Mode) – Firmware version 696-03.08 Radio Version: 626-08.00 "2.4 GHz"

Communication Parameters

- 1. Select Menu, ENT, 4 (Data com), 1 (Select device), 2 (Serial) and at the prompt "Serial ON?", select ENT.
- 2. Now confirm that the com settings = 1.8.0.9600 and press ENT to continue.
- 3. When prompted for "Table No.=", select ENT.
- 4. When prompted for "Reg key?", select ENT.

Checking Radio Settings

- 1. Select Menu, 1 (Set), ENT, (Radio)
- 2. Make sure FieldGenius is set to the channel value that is displayed. Press ENT to continue.
- 3. Make sure FieldGenius is set to the station address value that is displayed. Press ENT to continue.
- 4. Make sure FieldGenius is set to the remote address value that is displayed. Press ENT to continue.
- 5. Your total station will now be programmed with these settings.

Checking Settings in FieldGenius

Please ensure you have FieldGenius 2005 Version 1.2 installed.

Go to the Main Menu \rightarrow Settings \rightarrow Instrument Settings \rightarrow Total Station

Instrument Selection 📀 He				Help
GPS	Model and Communication			
Total Station	EDM Settings			
Manual	Tolerance Settings			
Laser	Search Settings			
	Radio Configuration			
None	Check Level			
🖋 ок		X	Cancel	

Model and Communication

Make certain you set FieldGenius to equal the following:

Model and Communication 😗 Help					
Total Station					
Make Trimble Model 5600 Robot					
Connect to Instrument Default Comm Settings					
Port	COM1 Data Bits 8	•			
Baud Rate	9600 Stop Bits 1	•			
Parity	None				
v	OK 🗶 Cancel				

EDM Settings

Make certain you set FieldGenius to equal the following:

EDM Settings 🛛 💡 Help			
EDM Settings		Prism Offsets (mm)	
Mode	IR Standard	•	Foresight 0.0
Time Out(s)	10		Backsight 0.0
	🔽 Use Default		Set Instrument
Minimum	Om		
Maximum	10000m		Reflectorless Settings
Guide Light	High	•	Std Dev 0.010m
v	ОК	X	Cancel

Tolerance Settings

These are tolerances used during multisets, please confirm that the values meet your desired specifications.

Search Settings

To begin with, set this to Relative Window. Please refer to your FieldGenius manual for more information about the search settings options.

Search Sett	ings		0	Help
Search Mode	Relative Windo	W	•	
Search Window Range				
Horizontal	30°00'00"		Maagura	
Vertical	30°00'00"	Measure		
Search Window Center				
Horizontal	0°00'00"		Mescure	
Vertical	90°00'00"		measure	
				1
v	ок	X	Cancel	

Radio Configuration

Make sure you select Radio, and confirm that the radio settings match what is set for your instrument.

Radio Configur	ation	📀 Help
Connection	-	1
C Direct	C RC-2	
Radio		
Settings		
Channel	1 💌	
Station Address	1 💌	
Remote Address	1 💌	
🗹 ок	× .	Cancel

Connecting FieldGenius to your Trimble

Once you've confirmed all your settings, and gone through the startup process on your instrument, you can do the following to begin robotic control with FieldGenius.

- 1. Select the RPU button on the instrument.
- 2. Select 3 (Remote)
- 3. Select 1 (OK)
- 4. When prompted to "Define window?" select No.
- 5. When prompted to "Measure Ref obj?", select No.
- 6. You will then see a message to press any key, and then remove the keyboard.
- 7. Make sure you have FieldGenius connected to your radio.
- 8. From the Model and Communication screen, select the Connect to Instrument button.

Model and Communication 🛛 😗 Help						
Total Stat	Total Station					
Make Trimble Model 5600 Robot						
Connect to Instrument Default Comm Settings						
Port	COM1 💌	Data Bits 8	•			
Baud Rate	9600 💌	Stop Bits 1	•			
Parity	None					
1	ок 🗙	Canc	el			

After you press the continue button you will see some reminders of things to check before you move on, press Continue when ready.

You should hear your instrument beep and if a successful connection is made you will see the Check Level screen.



Model 5600 Robot

Model and Communication

Connect to Instrument

ОK

COM1

None

-

•

• •

X

Total Station

Make Trimble

Baud Rate 9600

s d

Port

Parity

0

Default Comm Settings

Cancel

Data Bits 8

Stop Bits 1

Help

•

•

•

You can calibrate the instrument if you desire by selecting the corresponding checkbox.

Press OK to continue.

You will now see a green check mark on the Connect to Instrument button.

Press Ok to continue. You are now connected and ready to start surveying.