Topcon GPT-9003A & FC-2200 (Robotic)

Requires FieldGenius 2008 v4.0.0 or newer.

Configure the GPT-9003A for a Robotic connection

Confirm the Settings

- 1. From the Desktop screen, double tap the "Standard Meas" icon to start the Topcon instrument software.
- 2. Press SETUP
- 3. Press COMMUNICATION
- 4. Press COMMON PARAMATER.

RECKey Data Out = RS232C (does not apply for FieldGenius.) NEZ REC FORM = STANDARD (does not apply for FieldGenius.) REC TYPE = REC-B TRK STATE = OFF (does not apply for FieldGenius.) REC KEY (Automatic Collimation) = ON (does not apply for FieldGenius.) Press SET to save changes

5. Press RC.

CHANNEL = 1 (Ensure your RC-3R unit is set to the same channel) V SEARCH = 15 RC = S CR,LF = OFF Press SET to save changes.

- 6. Press SS WIRELESS.
 - ACK MODE = OFF
 - CR.LF = OFF
 - Press CHANNEL SET.

CHANNEL = 2 (Note what the Channel is set to, you will need this again later.) Press SET to save changes.

- Press SET to save changes.
- 7. Press EXIT twice to return to the screen in Step 1.

Start External Link Mode

- 1. Press PROG
- 2. Press EXT Link
- 3. Press SS WIRELESS SS Wireless = Enable REC TYPE = REC-B

TERMINATE = ETX

3. Press RC

RC = Enable REC TYPE = REC-B TERMINATE = ETX Press SET to save changes.

- Press SET to save changes. 4. Press Execute.
- 5. You will see a message "Remote control is being done from the controller." You must leave the instrument in External Link mode while using FieldGenius.

---OR---

Configure FieldGenius on the FC-2200 Controller	
Instrument Selection Instrument Type Total Station Total Station Demo GPS Rover GPS Reference GPS Demo None Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button. Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.	Instrument Profile Add a profile for your Topcon 9000A, then Edit it to access the instrument settings.
Model and Communication Image: 123 (?) Total Station Model Robotic Make Topcon Model Robotic Status: Not Connected Connect to Instrument Use Default Communication Settings Port COM2 Data Bits 8 Baud Rate 9600 Stop Bits 1 Topcon Parity None Close Close	Model and Communication Make = Topcon Model = Robotic Baud Rate = 9600 Parity = None Data Bits = 8 Stop Bits = 1 If using the built-in RS-3 Radio Port = COM2 RC Port = COM8/COM9 (for Bluetooth) or COM1 (for cable connection) If using RC-3R for communications Port = COM8/COM9 (for Bluetooth) or COM1 (for cable connection) RC Port = None
EDM Settings 123 (2) Mode IR Fine 0.2mm Time Out(s) IO Image: With the out of the second	EDM Settings Select your desired default EDM Mode and other EDM Settings. Prism Offsets Enable the "Set instrument to zero" option, and enter your prism offsets as appropriate. Please be sure to measure a known baseline to confirm your prism offsets. Reflectorless Settings Not applicable.



Bluetooth Connection Manager on the FC-2200 Controller

If you have specified either COM8 or COM9 as any of your communications ports, then when you press the "Connect" or "Connect to Instrument" buttons in FieldGenius, the FC-2200's Bluetooth Manager will automatically appear.

Depending on settings in the total station, it may discover up to two devices:

Bluetooth Devices 🛛 🗙		
Highlight and Select a device. If your device is not shown, use the Find button to search for it. Cancel will end this operation.		
Device Name	Address	
8 GPT-9000A 5D2394	00:02:c7:60:a5:1e	
8 RC-3R 5U1530 00:02:c7:60:ac:1f		
Select	Find Cancel	

GPT-9000A

This is the total station, and you would want to select it if using a direct (non-robotic) connection.

RC-3R

This is the RC unit, and you would want to select it if using a robotic connection.

If you do not see the required device, press the Find button to discover any nearby Bluetooth devices. You may also see various other devices listed depending on what else is in range of the FC-2200 controller, so just ignore anything else that you don't want to use.

Highlight the name of the device you want to connect to then press the Select button.

Tip: To conserve battery power, disable Bluetooth on any devices that you will not be connecting with via a Bluetooth connection.