TDS Nomad – Connect To Bluetooth Instrument

Tested with Trimble Nomad with integrated Bluetooth, and Sokkia 530R3 total station.

Configure a Bluetooth COM Port (FIRST TIME ONLY)

Before starting, exit from any programs that are running, and Reset your Nomad by holding your Power key down for 5 seconds.

Tap on the Start menu | Settings, tap the Connections tab, and tap on the Bluetooth icon.



On the Devices tab, tap on "Add new device" to initiate a scan for any Bluetooth devices within range.



Select your Total Station or GPS Receiver model then tap the Next button.

If you do not see your instrument, press the Refresh button. If you still do not see your instrument, check that it has been properly configured to use a Bluetooth connection.



You will then be prompted to set a passcode.

Leave it blank, just press the Next button.

Tap No when asked if you want to save it to your device list.

Settings	4:17
Enter Passcode	0
Enter a passcode to connection with SE	o establish a secure T530R3 144445.
Passcode:	
123 1 2 3 4 5	5 6 7 8 9 0 - = 🕈
Tab q w e r	tyuiop[]
CAP a s d f	g h j k l ; '
Shift z x c v	/bnm,./ 🔶
Ctl áü `\\	
Back	Next

🚰 Settings	🛞 🗱 ┥득 4:19
Enter Passcode	0
Enter a passcode to e connection with SET5	stablish a secure 30R3 144445.
Bluetooth	
SET530R3 144445 wa device using Bluetoot SET530R3 144445 to	ints to connect with your th. Do you want to add your device list?
	Yes No
123 1 2 3 4 5	6 7 8 9 0 - = 🕈
Tab q w e r t	yuiop[]
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Shift z x c v	b n m , . / 🔶
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Hide	

You will then be given a selection of Bluetooth services to choose from. Some instruments may have more than one choice. Select the appropriate "Serial Port" service, then tap Finish.

Nettings	🛞 🗱 ┥€ 4:24	
Partnership Set	tings	?
Display Name:	SET530R3 144445	
Select services to	use from this device.	
✓ Serial Port		
	Refresh	J
Back	Finish	

You should now see your hardware shown on the Devices screen in the Bluetooth settings.

🔊 Set	ttings		8	#	4:26	ok	
Blueto	oth						
Tap Ado Bluetoo its settii	Tap Add new device to search for other Bluetooth devices. Tap on a device to modify its settings.						
Add n	ew dev r530R3	ice 3 1444	45				
Devices	Mode	СОМ	Ports	Power			

On the Mode tab, ensure that "Turn on Bluetooth" is selected.

It doesn't matter if it is visible or not, since the connection will be initiated by the Nomad.

餐 Set	tings		*	#	4:27	ok	
Bluetoo	th						
Turr	n on Blu Make th Jevices	uetooth is device	visi	ble to ot	her		
To conn tab belo	To connect to a device, click on the Devices tab below.						
			_				
Devices	Mode	COM Po	orts	Power			

On the COM Ports tab, tap on New Outgoing Port





Select a Port from the list (COM 8 is the default).

Select your device and tap Next.

Uncheck the Secure Connection option. It will not work if Secure Connection is checked on.

Remember which port is selected (COM 8), we will need this again later.

Then tap Finish.



On the Power tab, leave the default settings with both options unchecked.

Tap OK then close any other screens.

杼 Sei	ttings		8	#‡ ◄€	4:41	ok
Blueto	oth					
Mai dev	intain E rice is I	Bluetoot turned o	h co ff.	nnectic	ons wh	en
Allow Bluetooth activity to turn the device on.						
Devices	Mode	COM Po	orts	Power		

Configure FieldGenius to use Bluetooth (FIRST TIME ONLY)

Start up FieldGenius, and go into the main menu, then Settings, then Instrument Selection. Edit your Total Station, GPS Rover, or GPS Reference profile with the following changes...

Tip: If you frequently switch back and forth between connecting with a Cable and Bluetooth, you can create a separate profile for each.

For a Total Station, click on the Model and Communication button. The only option that you will need to change is to set the COM port to match what we saw earlier, in this case COM8.

All of the other profile settings will be the same whether you are connecting with Bluetooth or with a cable.

Instrument Selection 🛛 🔤 🍠 123 😯							
Instrument Type							
Total Station O GPS Rover							
Total Station Demo GPS Reference							
O None O GPS Demo							
Instrument Profile							
Sokkia 530R3 👻							
Add Delete Edit							
Profiles contain equipment settings and							
measurement tolerances.							
Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.							
Connect 👗 Close							



For a GPS Receiver (base or rover), click on the Model and Communication button. The only option that you will need to change is to set the Data Collector Port to match what we saw earlier, in this case COM8.

All of the other profile settings will be the same whether you are connecting with Bluetooth or with a cable.

GPS Mo	del an	d Communicatic 🥅 <i>段</i> 12 ₃ 😲			
[GPS Re	ceiver –				
Model	Торсо	on HiPer 🔹 🔻			
Port	Port A 🗸				
Data Co	llector -				
Port		COM8			
Baud R	ate	Auto Detect 🗨			
Parity		None 🔻			
Data Bi	Data Bits 8				
Stop Bi	ts	1 🔻			
V		ОК			

Turn on your Instrument's Bluetooth Transmitter (EVERY TIME)

Ensure that your total station or GPS receiver has also been configured to use a Bluetooth connection. Please refer to your equipment manufacturer's manual for instructions.

Connect FieldGenius through Bluetooth (EVERY TIME)

Connect to your instrument the same way as you would with a cable, either through the Instrument Toolbar or the Instrument Profiles screen.

	(i)		
Connect to Instrument	EDM Mode	Set Angle	

FieldGenius will automatically turn on the Nomad's Bluetooth radio if necessary and will connect to your total station or GPS receiver.

Instrument Se	lection		e 🎘	1 ₂₃	0		
Instrument Typ Total Static Total Static None	on on Demo 		GPS Rover GPS Refer GPS Demo	rence			
Sokkia 530R3				•			
Add	Delete	•	Edit				
Profiles contain equipment settings and measurement tolerances.							
Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.							
V Conn	lect	X	Clo	se			