Leica RX1250 & TPS 1200 Direct (via Serial Cable or Bluetooth connection)

Configure the Leica TPS 1200 Total Station

- 1. Turn on the instrument
- 2. Level the instrument
- 3. On your instrument select menu item 5 (Configuration)



4. Select menu item 4 (Interfaces)



			a û
CONT			

5. Press the down arrow to highlight "GeoCOM Mode" then press F3 (Edit)

15:17 CONFIGURE	+ @ ir st	b I	°* \$3	
Interfaces				X
Interface	Port			Device
GSI Output	-			-
GeoCOM Mode	2			RH1200
RCS Mode	-			-
Export Job	-			-
GPS RTK	-			-
Internet	-			-
				a û
CONT	EDIT	CTRL	USE	

:

:

6. Verify that the communication parameters match the following...

For a serial cable connection:	
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For a wireless Bluetooth connection:

I ``¦*	23 @ 24 X	CONFIGURE	- 🔮 IR STD	I	% 83
	Yes 🐠	Use Interface	;		Yes
RS232 RS232	Port 1 GeoCOM GeoCOM	Port Device Protocol	:	Port <po RS232</po 	3(BT) ort 3> GeoCOM
NJZJZ	deocon	FIOLOCOT	•	NJEJE	0000011





7. Press F5 (DEVCE)

18:19 CONFIGURE GeoCOM Mode Use Interface:

Port

Device

Protoco1

8. Press F6 (PAGE) if necessary to get to the Others page, then use the up/down arrows to highlight RS232 GeoCOM, then press F3 (EDIT)

	IR]	> ∦ ~ ¦ 83	8
Devices (BT)			\times
Radios Modems/GSM	Others		
Name			Туре
<port 3=""></port>		<p< td=""><td>ort 3></td></p<>	ort 3>
RS232			RS232
RS232 GSI		RS2	32 GSI
RS232 GeoCOM		RS232	GeoCOM
CONT NEW EDI	T DEL	MORE	a ਹ PAGE

9. Verify that the communication parameters match the following:

18:20 CONFIGURE	+ 🔮 I r	₀ I `` ¦ [‡]	° ∿ \$3	
Edit Devic	e:RS232	GeoCOM		×
Name	:	RS232	GeoCOM	
Туре	:	RS232	GeoCOM	
Baud Rate	:		115200	₽
Parity	:		None	Ф
Data Bits	:		8	ФĽ
Stop Bit	:		1	ФI

		a បំ
STORE	DEFLT	

Note: You can define a different Baud Rate, the default is 115200 but can be changed to a lower setting if needed.

- 10. Press F1 (STORE) to set the parameters and go back to the Devices screen.
- 11. Press F1 (CONT) to continue back to the GeoCOM Mode screen.
- 12. Press F1 (CONT) to continue back to the Interfaces screen.
- 13. Press F1 (CONT) to continue back to the Main Menu screen.

Configure the Leica RX1250 Controller



Aside from installing the FieldGenius software, nothing needs to be configured on the data collector's operating system.

Run FieldGenius by double-tapping on the desktop icon.

If you do not see the FieldGenius icon, then turn the RX1250 off then back on again.

Configure FieldGenius on the RX1250 Controller

Instrument Selection				🎟 1 ₂₃ 💡	
Instrument Type Total Station O Total Station Demo O GPS Rover O GPS Reference O GPS Demo None	FINST SE Pro set tol	trumen RIAL Add ofiles co ttings a erance	t Profile — Delete Delete ontain equip and measure s.	Edit ment ment	
Connect the data collector to the instrument and switch the power on prior to pressing the 'Connect' button.					
V Connect		X	C	ose	

Model and Communication 🕮 123 😯 Total Station Make Leica Model TPS Robot (GeoCOM)					
Status:	Not Connected	1			
Connec	t to Instrument		Use Default (Set	Communication	
Port	COM1	-	Data Bits	8 🔻	
Baud Rate	115200	-	Stop Bits	1 💌	
Parity	None	-			
X		C	lose		

Instrument Profile

Create a profile for your Leica 1200 Direct, and Edit it to access the instrument settings.

Tip: You can create and use multiple profiles, such as a profile for Direct Serial, Direct Bluetooth, and Robotic connections.

Model and Communication

Make: Leica

Model: TPS Robot (GeoCOM)

Port: COM1 or Bluetooth

Baud Rate: 115200

Data Bits: 8

Stop Bits: 1

Parity: None

EDM Sett	ings		🎟 1 ₂₃ 😲
EDM Settin	gs	Prism Offs	ets (mm) —
Mode	RL Standard 🗾 💌	Foresight	23.1
Time Out(s)	10	Backsight	23.1
	🔽 Use default time	RL	0.0
Minimum	0'	Set ins	strument
Maximum	32808'	Reflector	ess Settings -
Guide Light	High 💌	Std Dev	
		L	
X	Close	•	







EDM Settings

Enable the Set Instrument to Zero option, and enter the Prism Offsets as follows: if you are using a Leica 360° prism you would put a +23.1mm offset in FieldGenius; a Leica Circular prism offset would be 0mm in FieldGenius, a Leica mini prism would be +17.5mm in FieldGenius, and for the RL reflectorless offset leave it set to 0mm.

For more information, please refer to our "Leica RX1250 & TPS 1200 Prism Offsets" document.

Tolerance Settings

Specify your desired multiset tolerances. You can usually leave the default values.

Search Settings

Search Mode: select PS Next (CCW or CW)

If you will be measuring reflectorless, then disable the Auto search for prism option so that FieldGenius won't initiate a prism search when you try to take a measurement.

Radio Settings

There is nothing to configure here since we are connecting direct.