Leica TCA 1100 (GSI)

Firmware:GSI Version 2.28aFieldGenius:FieldGenius 2007 v3.0.1

Procedure

- 1. Turn on the instrument
- 2. Level the instrument
- 3. On your instrument's main menu screen press F3 (CONF)
- 4. Select menu item 3, GSI Communication param
- 5. Verify that the communication parameters match the following:

```
Baud Rate: 9600
Protocol: GSI
Parity: No
Terminator: CR LF
Data Bits: 8
Stop Bits: 1
```

Then press **CONT** to return to the Main Menu.

- 6. In FieldGenius start or open an existing project. Press the Main Menu button > Settings > Instrument Selection. On the Instrument Selection screen, select **Total Station**.
- 7. Match the following on the Model and Communication screen.

Model and Communication 123 😯					
Total Station					
Make Leica Model TPS Series (GSI)					
👗 Con	nect to Instrument	Default Cor	nm Settings		
Port	СОМ1 💌	Data Bits	8 💌		
Baud Rate	9600 💌	Stop Bits	1 💌		
Parity	None 💌				
√	ок 🔰	٢	Cancel		

8. Specify your EDM Settings and Prism Offsets as desired.

EDM Settings				¹ 2 ₃ 🥐
EDM Settings			Prism Offsets (mm)	
Mode	Manual Setting	•	Foresight	0.0
Time Out(s)	10		Backsight	0.0
	💌 Use default tim	e	RL	0.0
Minimum	Om		Set ins	trument
Maximum	10000m		Reflectori	ess Settings -
Guide Light	High	•	Std Dev	
-				
1	ок	X	C	ancel

9. Specify the multiset tolerances you want to use on the **Tolerance Settings** screen.



10. Specify your search settings as desired on the Search Settings screen.

Search Settings					
Search Mode	Relative Wind	dow	-		
Search Window Range					
Horizontal	30°00'00" 30°00'00"		Measure		
Vertical					
Search Window Center					
Horizontal	0°00'00" 90°00'00"		Monguro		
Vertical			measure		
v	ок	X	Cancel		

11. There is nothing to set on the Radio Configuration screen.

Radio Configu	1 ₂₃ 😮	
Connection © Direct © Radio	C RC-2	
Settings Channel Station Address Remote Address	v v v v	
v o	K 🛛 🗶	Cancel

12. There is nothing to set on the **Check Level** screen. You will see this screen when you try connecting to the instrument.



13. Switch back to the **Model and Communication** screen. Press the **Connect to Instrument** button and if you successfully connect you will see a green check mark on the Connect to Instrument button, and the Check Level screen will appear. Have fun!

General Notes:

When connected in GSI mode you can set the instrument to the "measure" screen. In GSI mode, FieldGenius can set a plate reading on the instrument and trigger measurements. It can not control ATR or the servo motors. However, if ATR is enabled on the instrument, ATR will be used when measurements are done with FieldGenius.