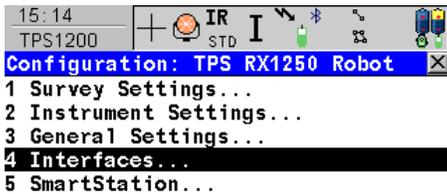# Leica RX1250 & TPS 1200 Direct (via Serial Cable or Bluetooth connection)

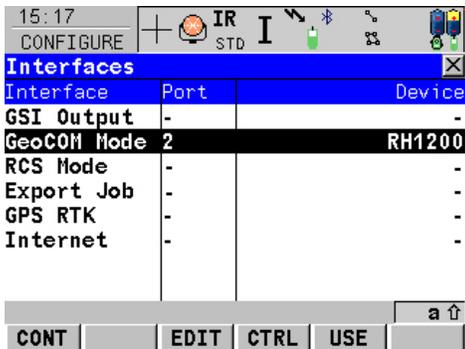## Configure the Leica TPS 1200 Total Station

1. Turn on the instrument

2. Level the instrument

3. On your instrument select menu item 5 (Configuration)
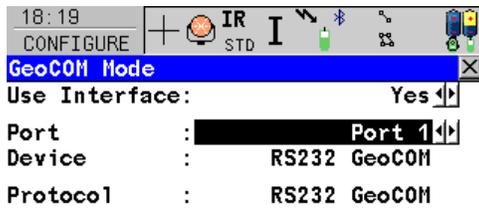

4. Select menu item 4 (Interfaces)

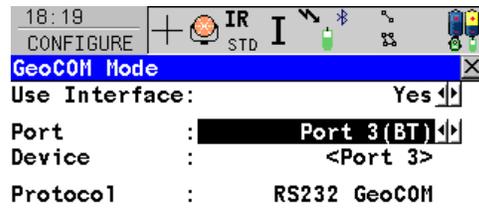5. Press the down arrow to highlight "GeoCOM Mode" then press F3 (Edit)

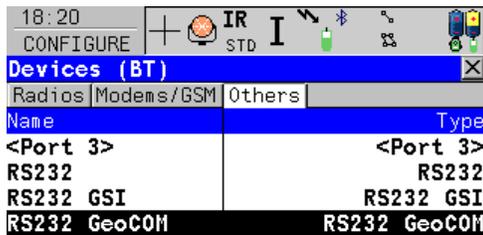6. Verify that the communication parameters match the following…
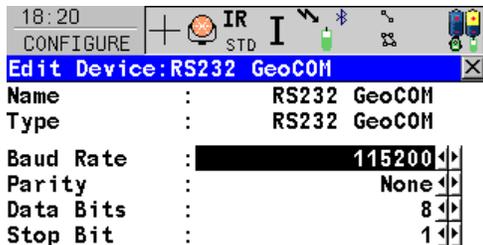
For a serial cable connection: For a wireless Bluetooth connection:

```
18:19      IR                           18:19      IR
CONFIGURE  STD                    [X]    CONFIGURE  STD                    [X]
GeoCOM Mode                       [X]    GeoCOM Mode                       [X]
Use Interface:           Yes             Use Interface:           Yes
Port        :         Port 1            Port        :       Port 3(BT)
Device      :    RS232 GeoCOM            Device      :        <Port 3>
Protocol    :    RS232 GeoCOM            Protocol    :    RS232 GeoCOM

                           a              
CONT           DEVCE                      CONT           DEVCE
```

7. Press **F5 (DEVCE)**

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)**
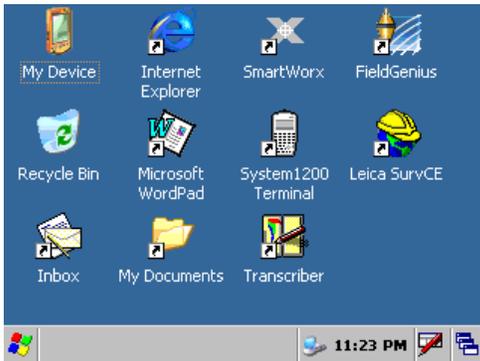
```
18:20      IR
CONFIGURE  STD                    [X]
Devices (BT)                      [X]
Radios|Modems/GSM|Others|
Name                      Type
<Port 3>                  <Port 3>
RS232                        RS232
RS232 GSI                RS232 GSI
RS232 GeoCOM          RS232 GeoCOM

                           a
CONT   NEW   EDIT   DEL   MORE   PAGE
```

9. Verify that the communication parameters match the following:

```
18:20      IR
CONFIGURE  STD                    [X]
Edit Device:RS232 GeoCOM          [X]
Name        :    RS232 GeoCOM
Type        :    RS232 GeoCOM

Baud Rate   :         115200
Parity      :           None
Data Bits   :              8
Stop Bit    :              1

                           a
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.

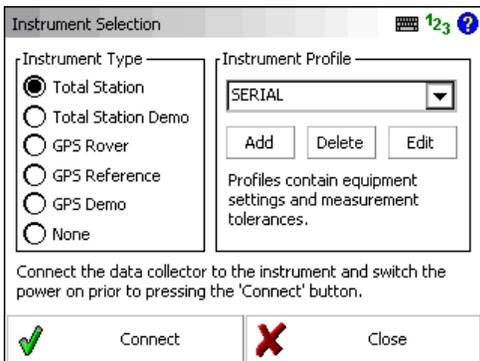## Configure the Leica RX1250 Controller

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.

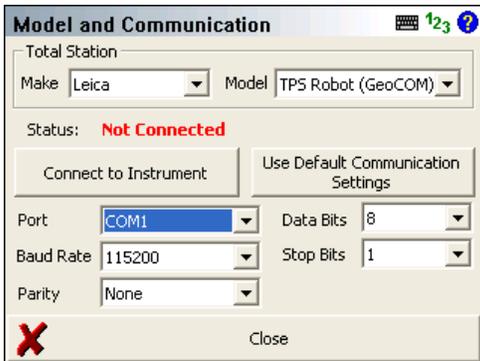If you do not see the FieldGenius icon, then turn the RX1250 off then back on again.

Configure FieldGenius on the RX1250 Controller

Instrument 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
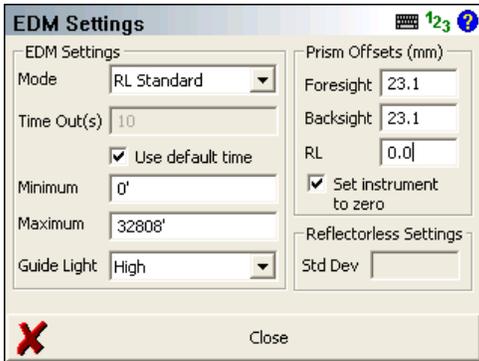
Make: Leica

Model: TPS Robot (GeoCOM)

Port: COM1 or Bluetooth

Baud Rate: 115200
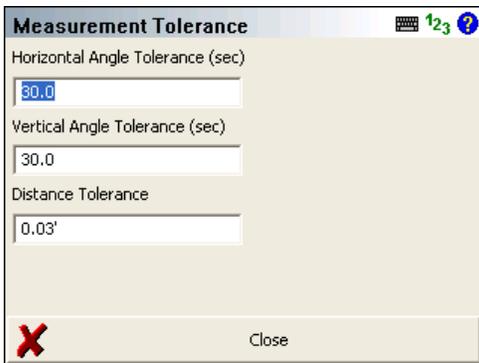
Data Bits: 8

Stop Bits: 1
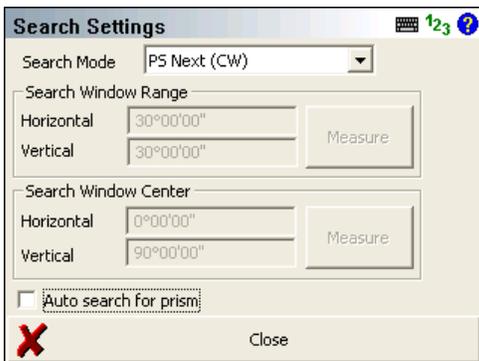
Parity: None

EDM 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.
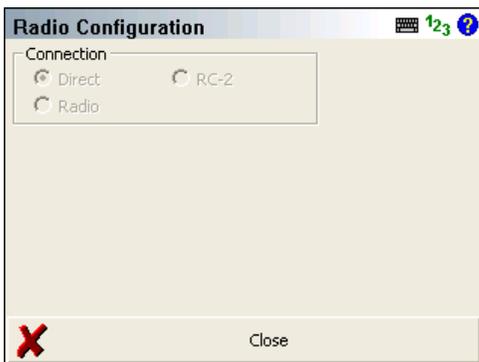
Tolerance Settings

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.