

Leica SurvCE Training

Establishing BT Communication with TPS1200



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1.0 Introduction

Objectives

In this exercise you will learn how to configure a 1200 Total Station and Leica SurvCE so that they may communicate via Bluetooth.

- At the end of the exercise you should be able to establish BT communication between Leica SurvCE and a 1200 Total Station.

Getting Started

For this exercise we need :

- TCRP1200 Total Station with BT
- RX1250 with Leica SurvCE

2.0 Configuring the Total Station

Objective

We need to configure the Total Station.

Getting started

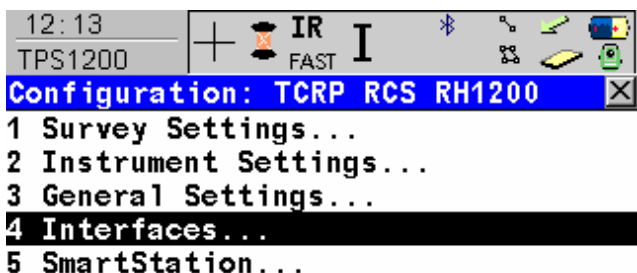
Power on the instrument.

Configuring the robotic total station for communication with SurvCE

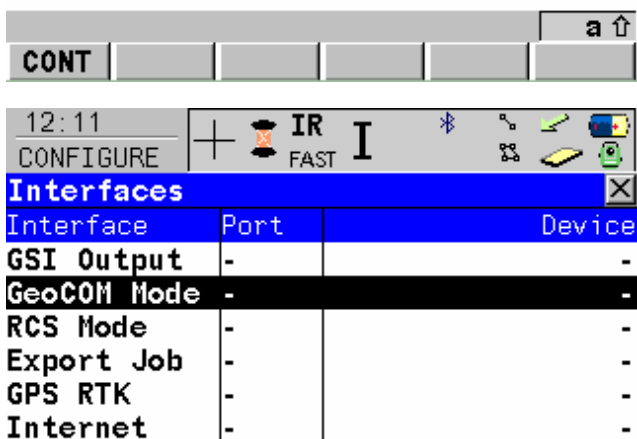


From the **Main Menu**

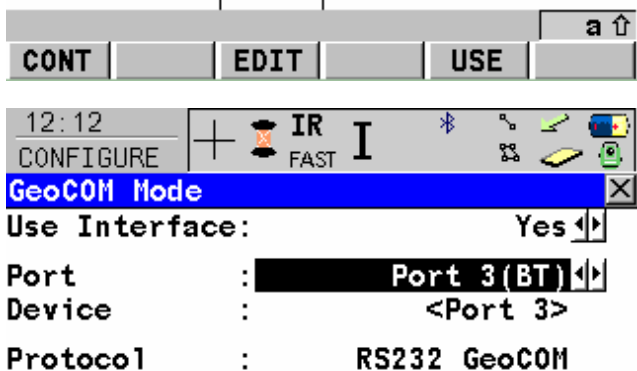
Select **Config...**



From the Configuration screen select **Interfaces**

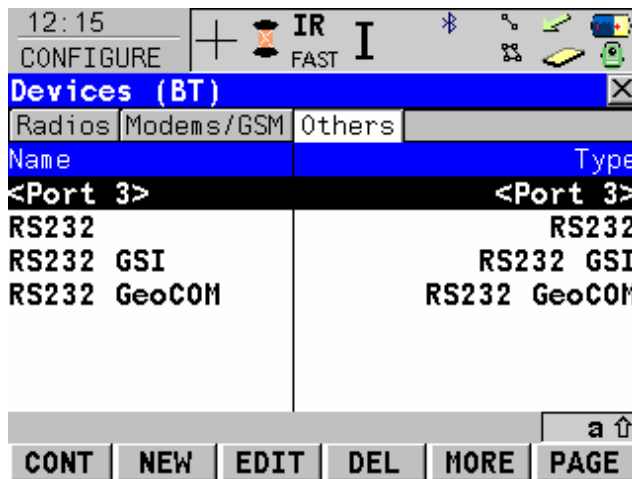


From the Interfaces screen select **GeoCOM Mode** and **F3** for **Edit**.

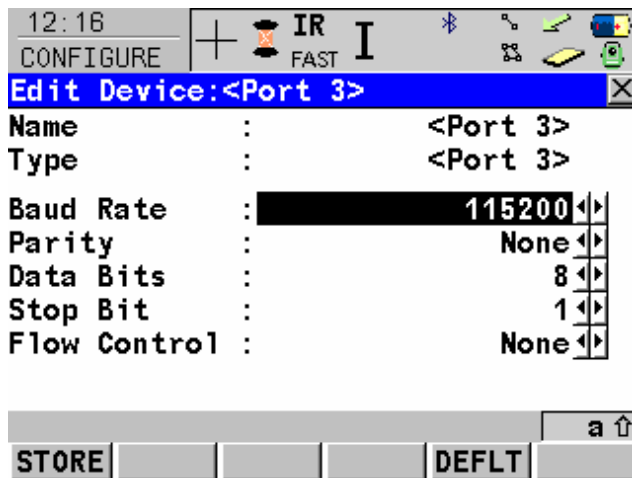


From the GeoCOM Mode screen verify that Use Interface is set to **Yes**. Change the Port setting to **Port 3 (BT)** . Press **F5** for **DEVCE**.





On the Devices screen select **<Port 3>** from the **Others** tab. Press **F3** for **EDIT**.



Verify that you have the following configuration

- **115200** Baud Rate
- **None** Parity
- **8** Data Bits
- **1** Stop Bits

Press **F1>F1>F1>F1** to return to the **Main Menu**.

The 1200 is now configured to communicate with Leica SurvCE.

3.0 Configuring Leica SurvCE

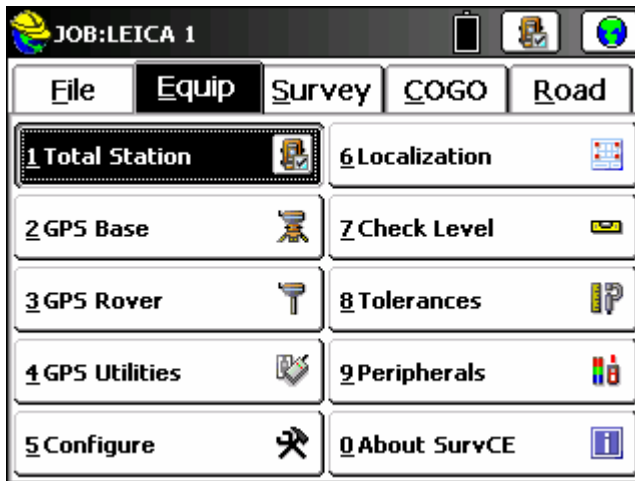
Objective

We need to configure the Total Station.

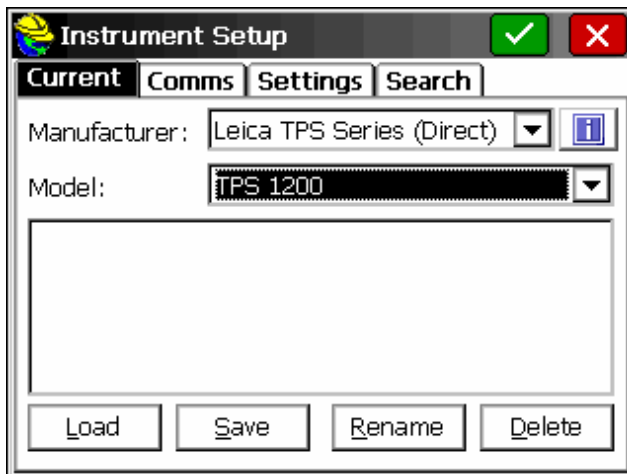
Getting started

Power on the instrument.

Configuring Leica SurvCE for communication with the 1200

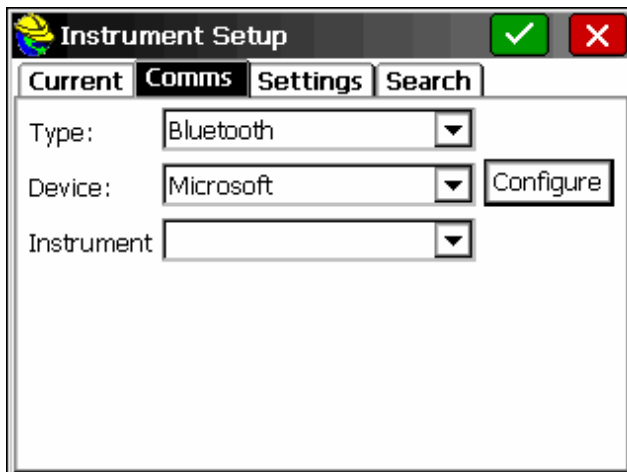


From the **EQUIP** tab press 1 or tap the **Total Station** button on the RX1200 screen.



On the **Current** tab of the **Instrument Setup** screen verify the following settings.

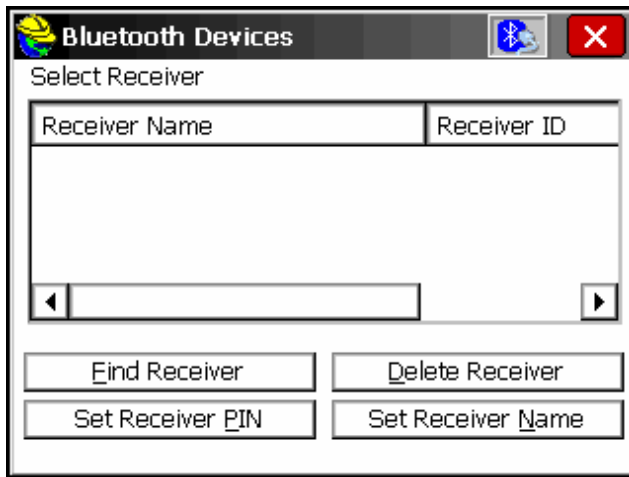
- **Leica TPS Series (Direct)** Manufacturer
- **TS1200** Model



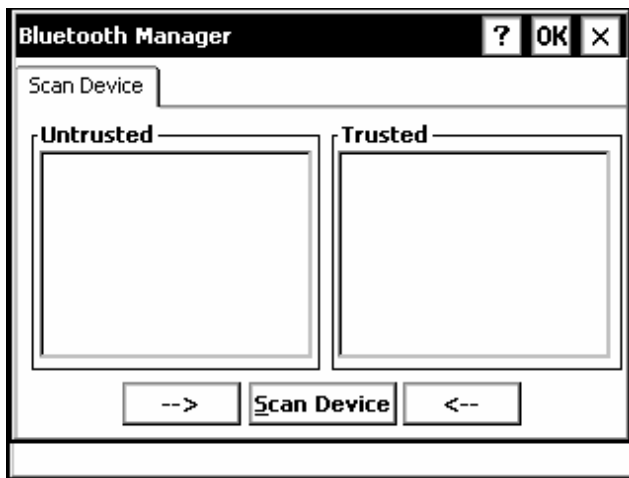
On the **Comms** tab of the **Instrument Setup** screen verify the following settings.

- **Bluetooth** Type
- **Microsoft** Device
- **COM2** Port

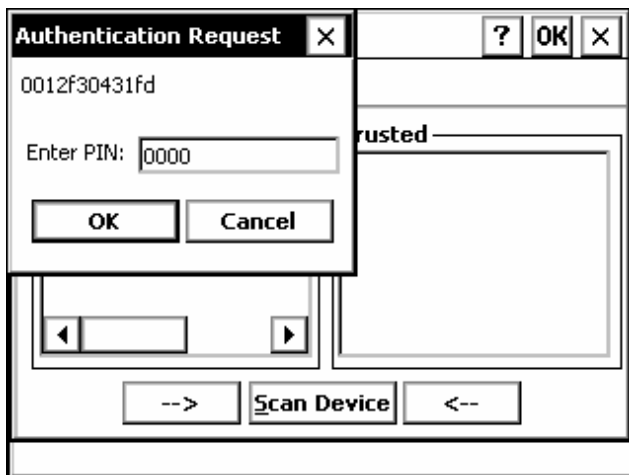
Tap **Configure**



Tap Find Receiver



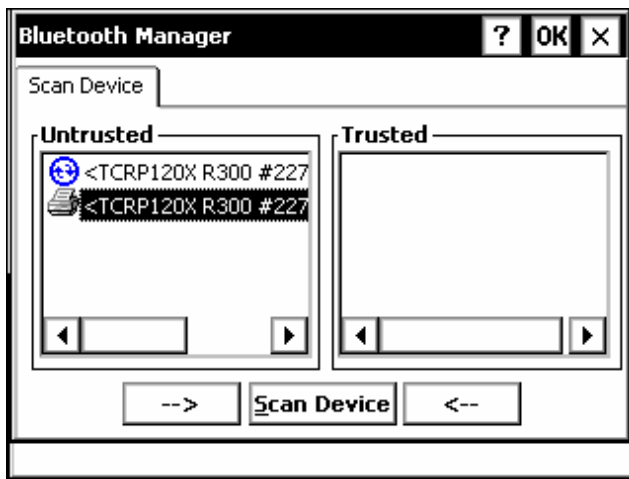
Tap Scan Device




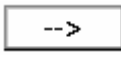
When the **Authentication Request** dialog box appears:

Enter **0000**

Tap **OK**

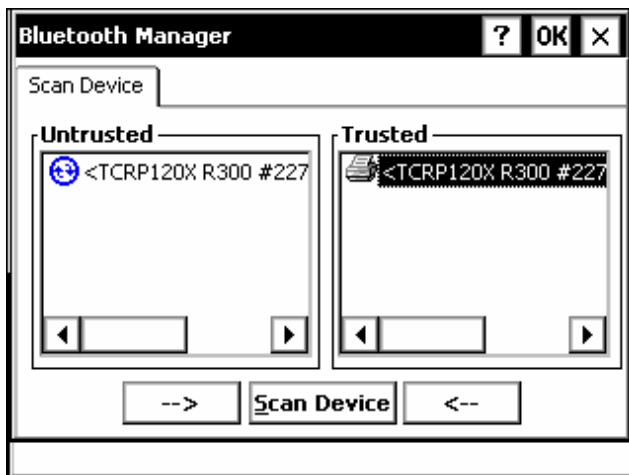



Select the  icon

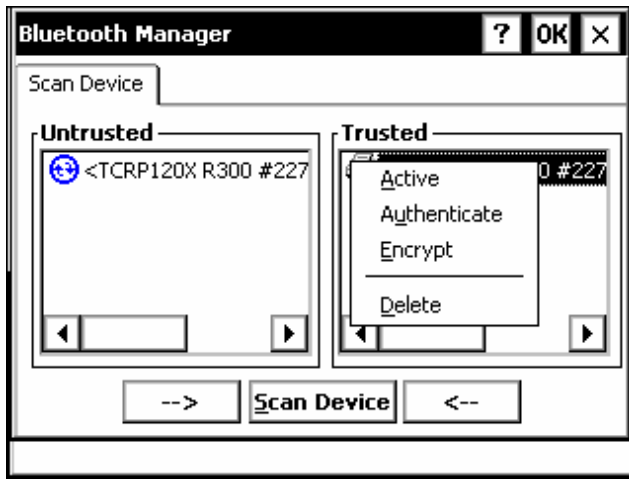
Tap the  button



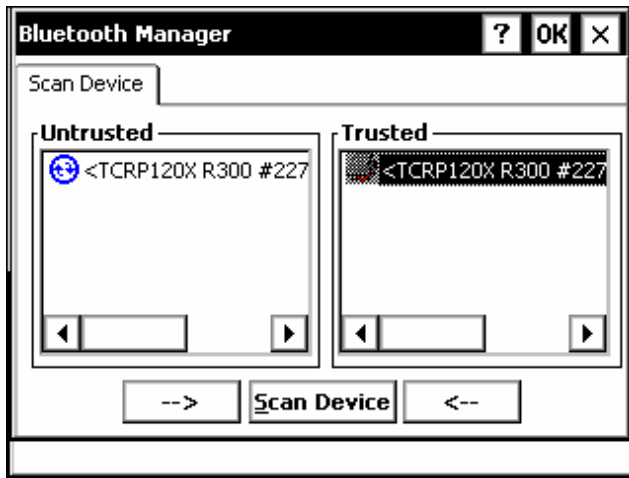
Tap No



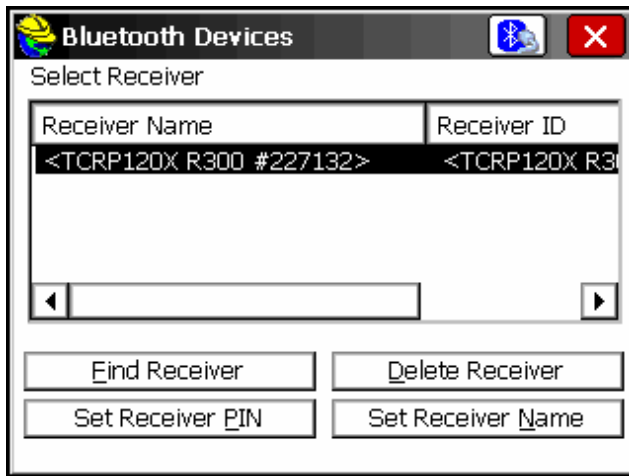
From the **Trusted** side of the screen double tap the  icon



Tap Active

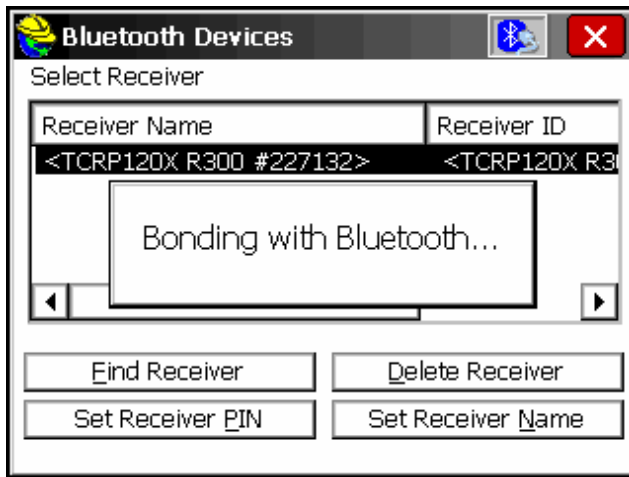


When the screen looks like this tap OK

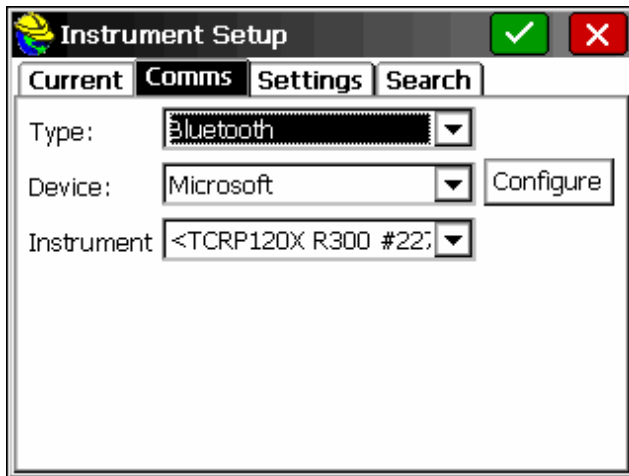


Your instrument should now appear as an available Receiver

Tap the  icon.

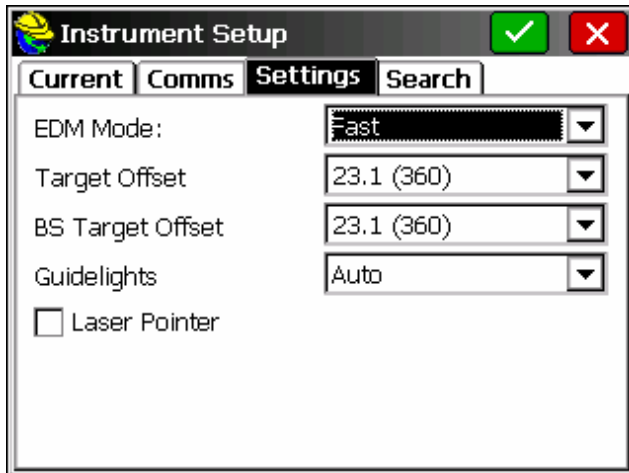


This screen will briefly appear and the instrument should beep once.



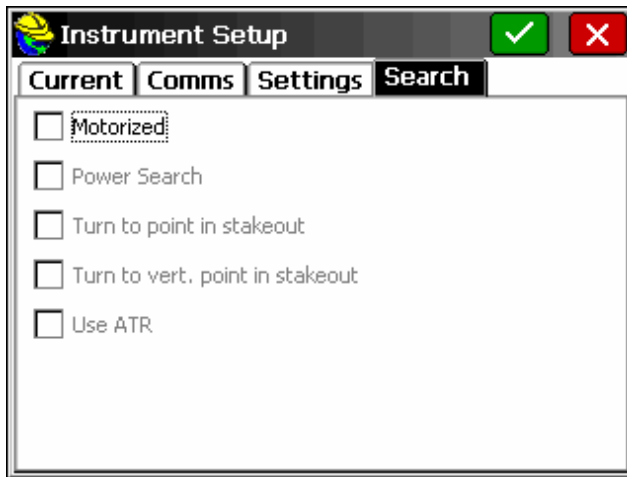
When this screen appears we can continue configuring the instrument.

Defining the linear measurement settings



On the **Settings** tab of the **Instrument Setup** screen verify the following settings as appropriate for your job.

- EDM Mode
- Target Offset
- BS Target Offset
- Guidelights
- Laser Pointer

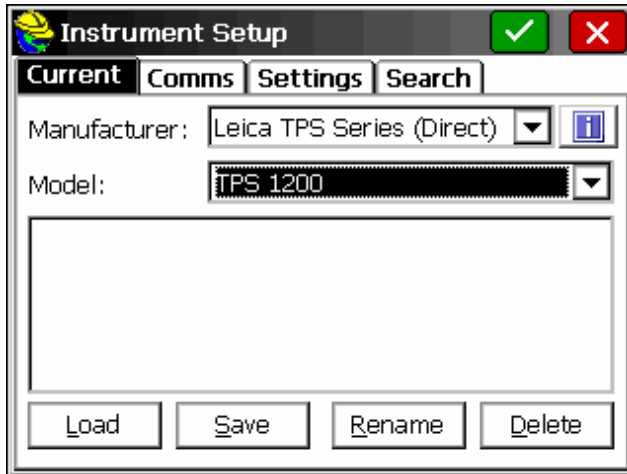


On the **Search** tab of the **Instrument Setup** screen verify the appropriate settings.

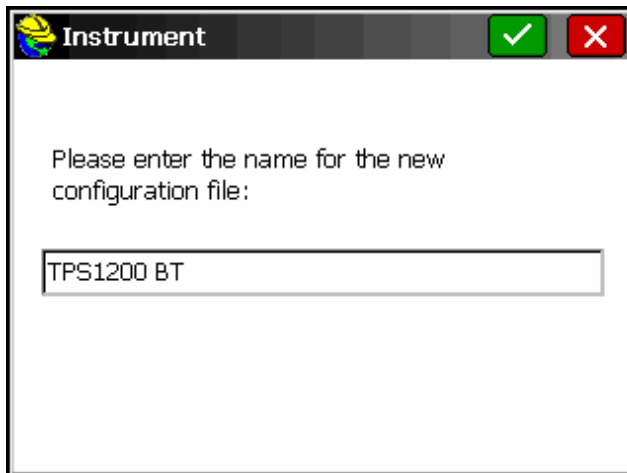
Note: Unless **Motorized** is checked all other settings on this tab are unavailable.

Now let's return to the **Current** tab of the **Instrument Setup** screen to save these settings.



Saving the configuration

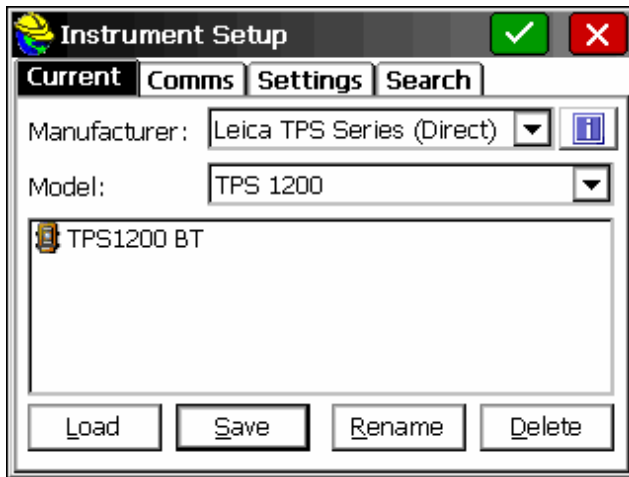




Tap the **Save** button.

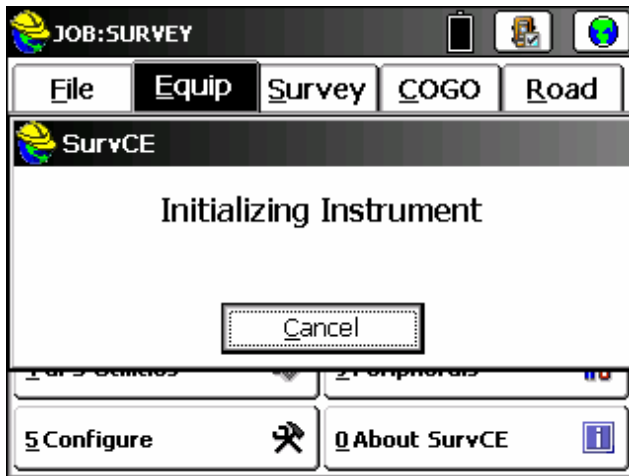


Give the new configuration a

name and press the  key on the RX1250 or tap the  on the screen to accept the name.



Press the  key on the RX1250 or tap the  on the screen to accept the selection.



This screen will appear as communication is established and configuration settings are applied within the 1200. The instrument will beep twice and Leica SurvCE will return to the main menu.