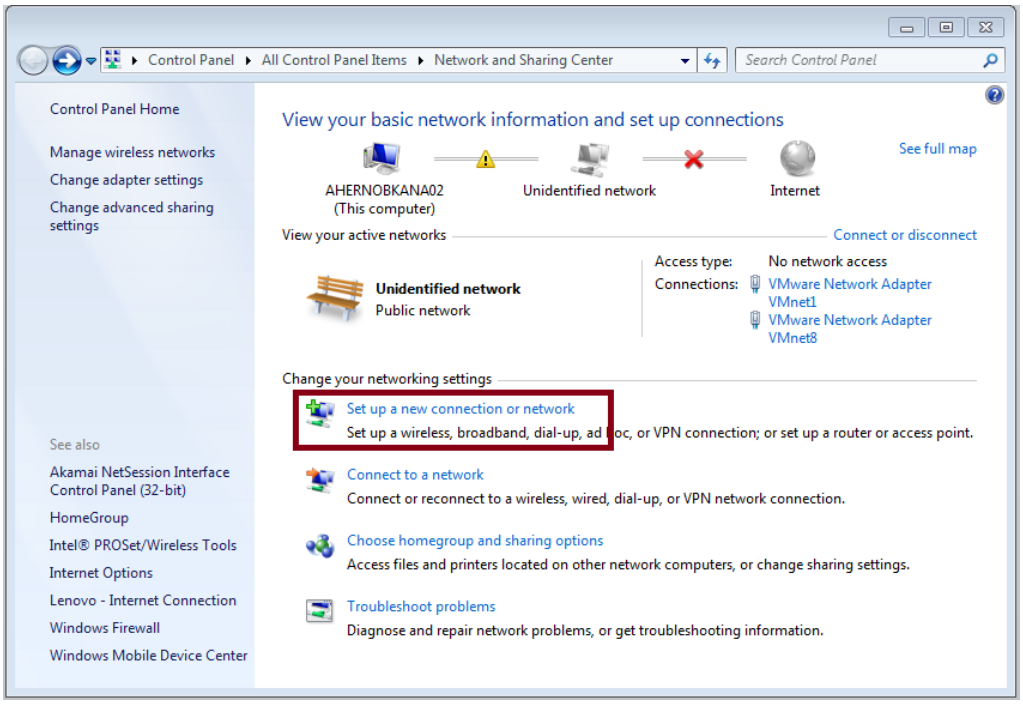
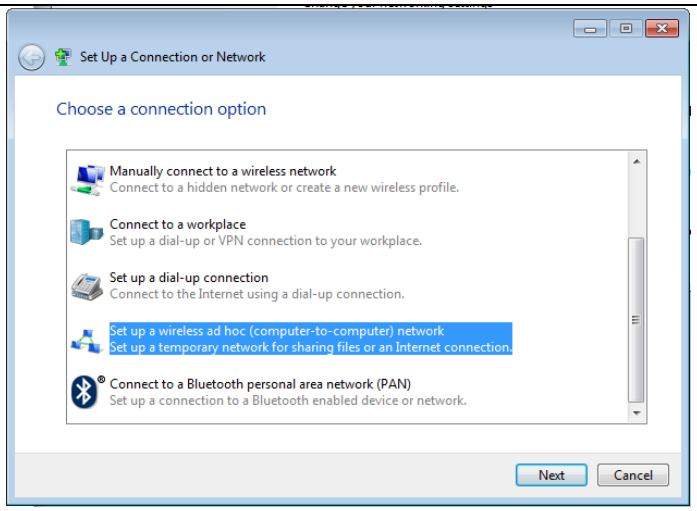
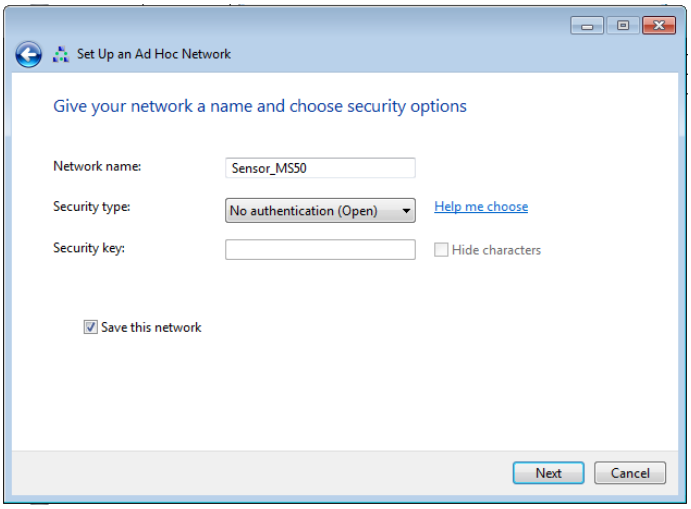
How to connect MS50/TM50/TS50 with a Win7 PC using wireless network

This tutorial describes how to connect the Nova TPS sensors to PC with Windows 7 installation using the wireless network connection. The description may vary slightly due to different PC configuration.

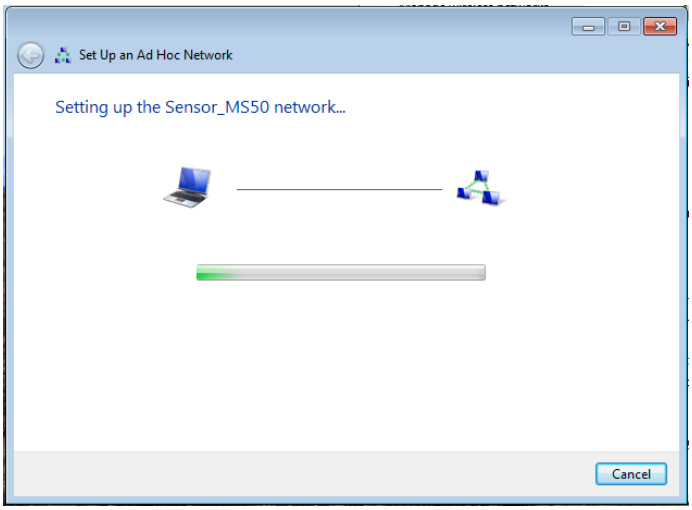
Step 1	Before you start, switch off all your wireless connections. In some cases also the LAN connection has to be unplugged. Go to Network and Sharing Center and click on "Set up a new connection or network".  Select the option "Set up a wireless ad hoc (computer-to-computer) network" and click Next.

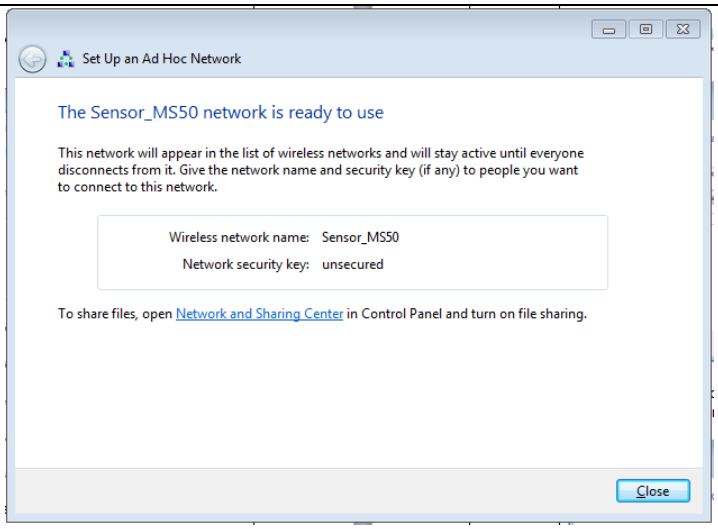


Confirm the next window with Next. Now, give a name to the network and choose "No authentication (Open)" security type. You can save the network. Click Next.



The new ad-hoc network will be established. Sometimes this does not work right away and several trials are needed. Always make sure that any other network connection (specially wireless) is off.

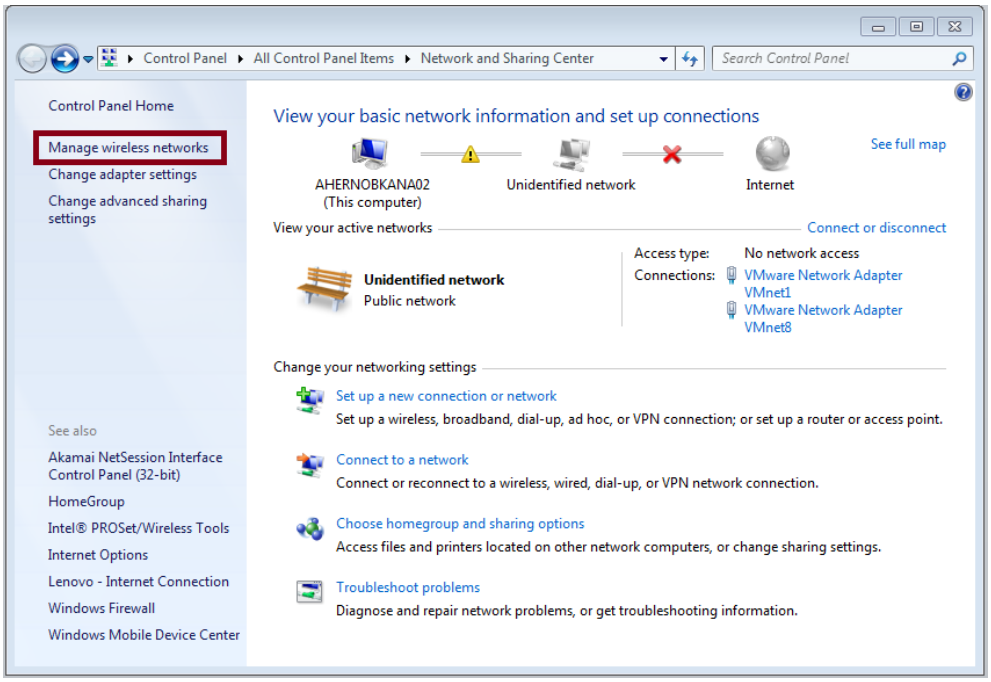




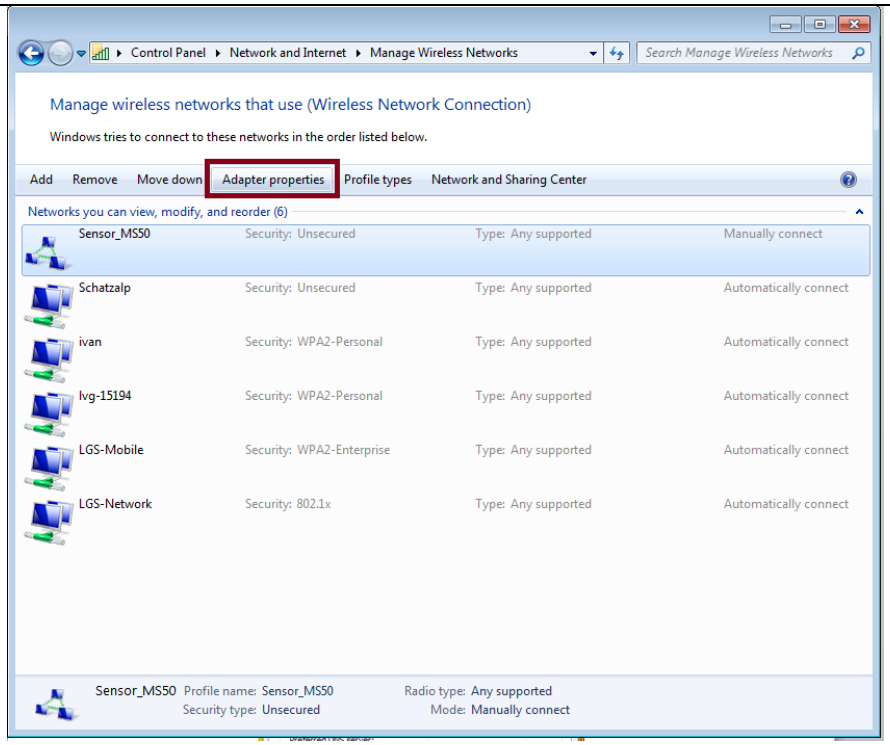
Confirm this step with Close.

Step 2

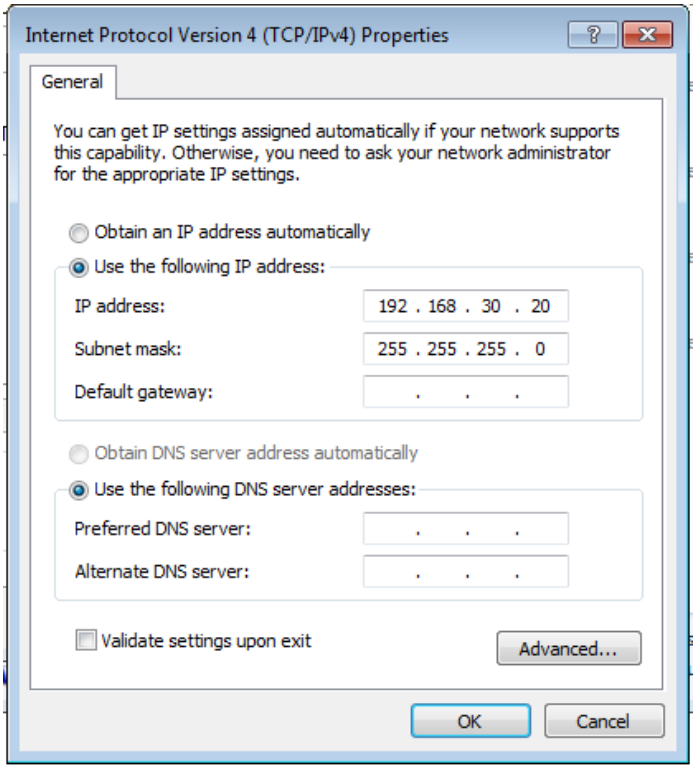
Back in Network and Sharing Center, select "Manage wireless networks".



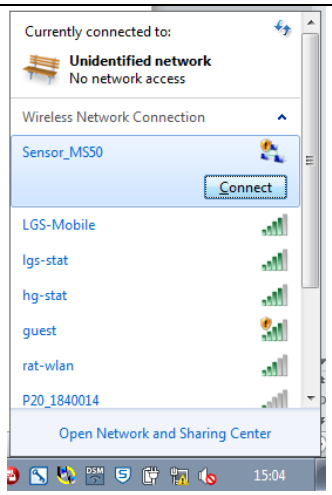
The list of wireless networks appears. Mark the new network and click on Adapter properties. Enter the properties window for Internet Protocol Version 4.



Select the IP address. The first two numbers of the IP address have to be **192.168.**. The last two numbers are free to assign. Confirm with OK and exit the network setup.



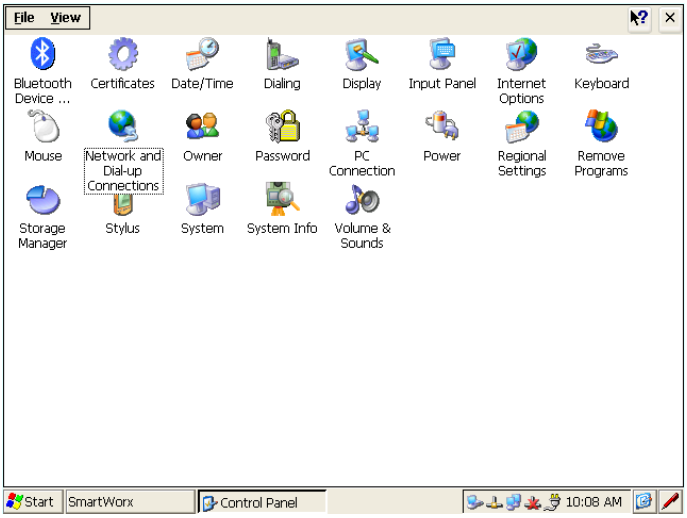
Finally click on the Network Icon in the icon bar and allow your ad-hoc network waiting for a connection. First then it can be found by other devices.



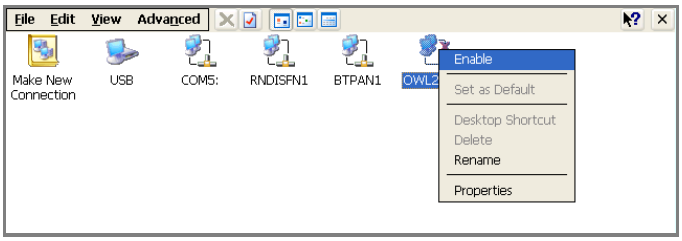
Step 3

Configure the wireless network on a sensor.

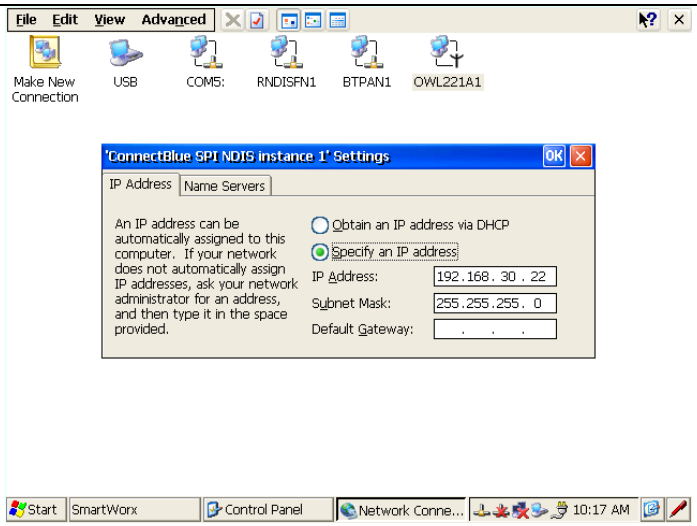
Open the Windows CE control panel and open the Network and Dial-up Connection.



Tap (or hold longer) on the **OWL221A1** adapter and select Enable.

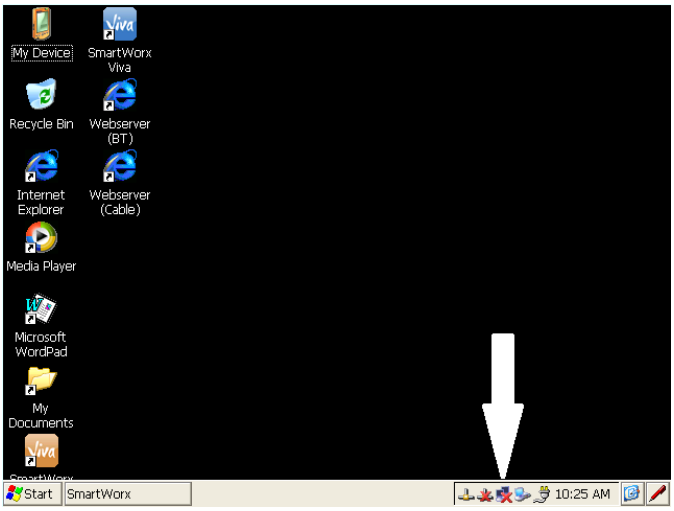


After that, tap again on OWL221A1 adapter and select Properties. On the WLAN adapter properties panel select Specify an IP address.

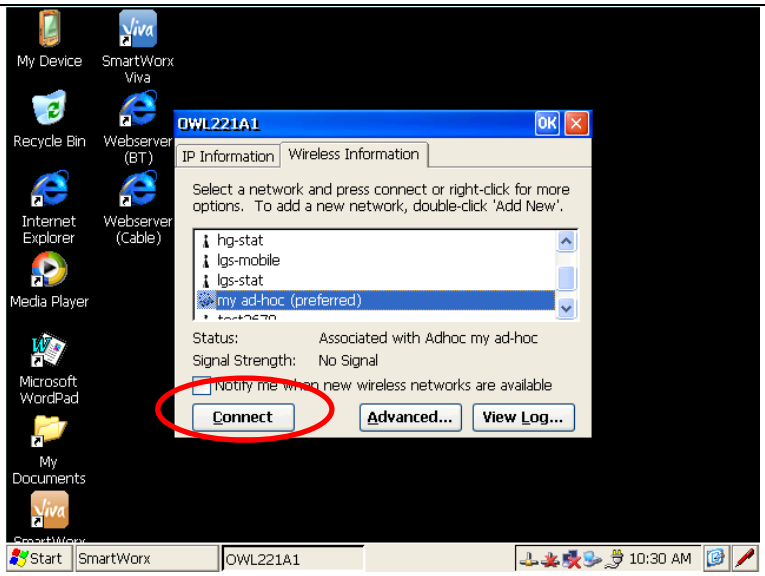


Enter IP Address and Subnet Mask. The first three numbers of the IP address have to match with the numbers entered on the PC. The **last number must be different**. Confirm this panel with OK.

On Window CE Desktop click on WLAN settings icon.

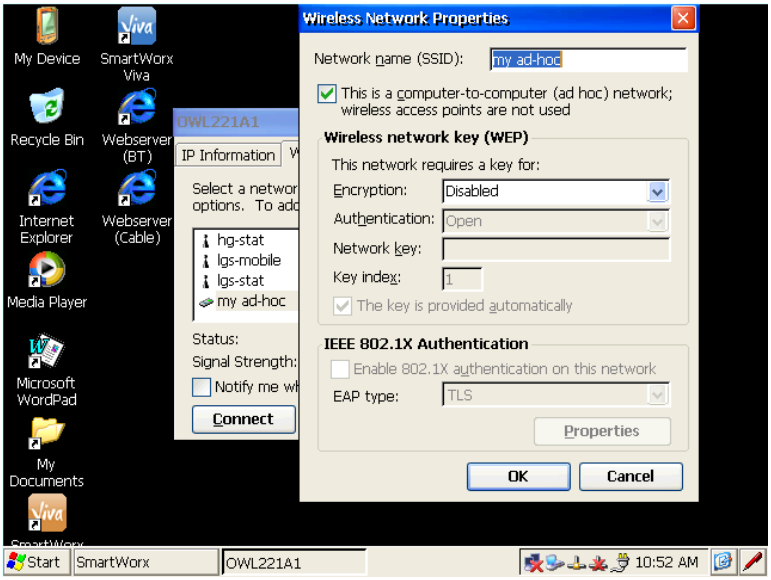


The panel looks as follows:



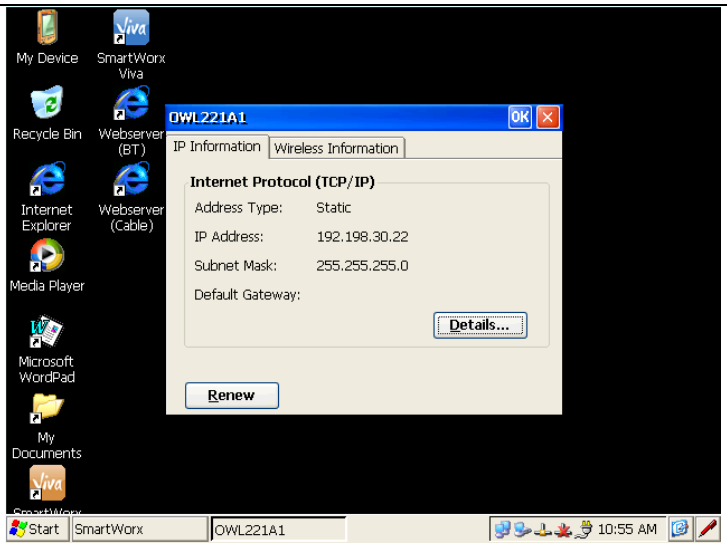
The WLAN modul automatically starts to scan and you see your ad-hoc network in the list of available networks. Now highligth your ad-hoc network and tap on Connect.

The next panel opens automatically and shows the Wireless Network Properties.



If you didn't define an encryption on the PC, then on this panel is nothing to enter. All settings are automatically recognized. Confirm with **OK**.

On WLAN settings panel the specified IP Address and Subnet Mask are displayed now.

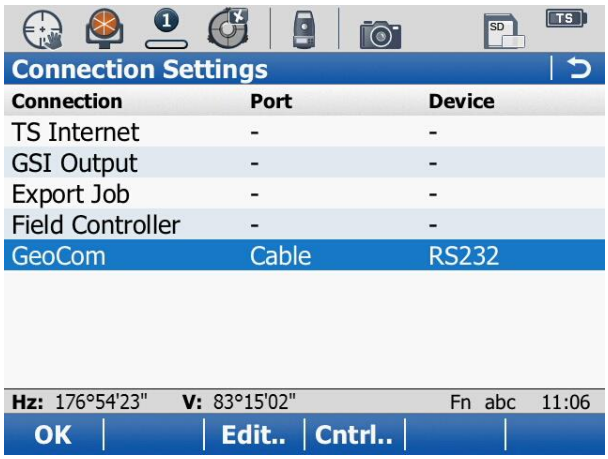


Finally confirm the WLAN settings panel with OK. These were the Windows CE settings.

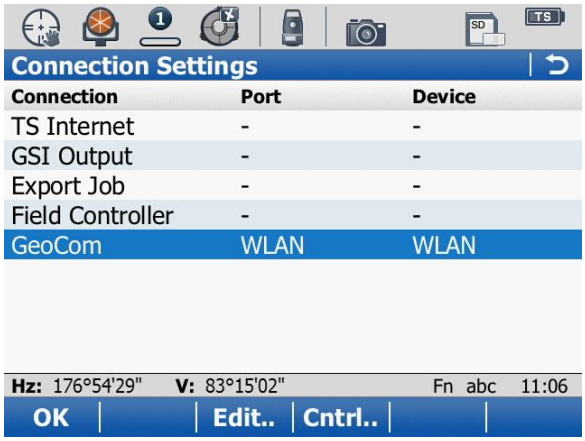
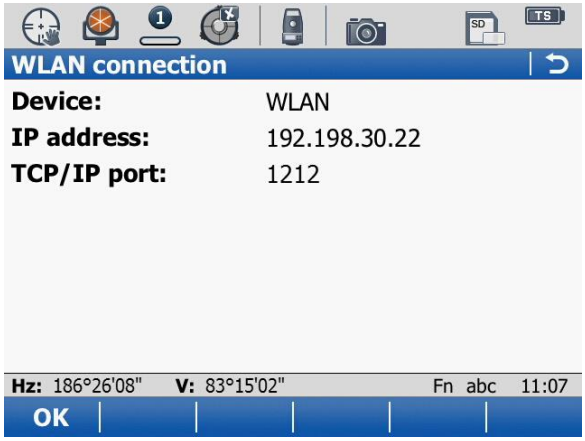
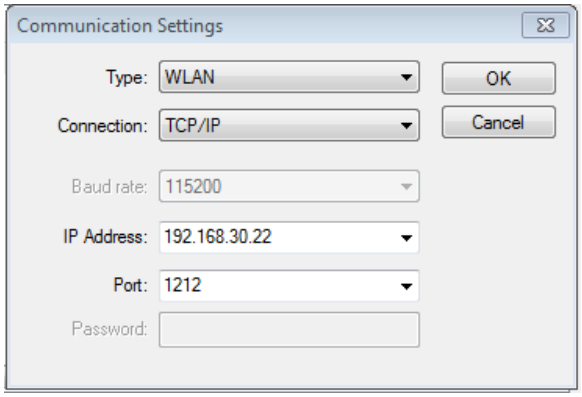
Step 4

The last part has to be configured in SmartWorX.

Open Instrument › Connections.. › All other connections.



Press F3(Edit) and select Connect using: WLAN and Confirm.

	Back on Connection Settings panel you see, that WLAN is selected as device.  Press F4(Ctrl..) to check the IP address and the assigned Port.  Confirm with OK.
Step 5	Connect to TPS with GeoMoS Monitor. Open GeoMoS Monitor, and select Configuration › Sensor Manager. Add the sensor, and select the communication. Port number is 1212. Confirm with OK.  Your GeoMoS is now connected to TPS via wireless network.