

SENSAPHONE[®]

REMOTE MONITORING SOLUTIONS

SENSAPHONE Serial-to-Ethernet Device Server • FGD-0300 Installation Instructions

These Simple steps will walk you through connectivity to a Sensaphone SCADA 3000 and Sensaphone 2000 using a Moxa 5110 Serial Device Server. If you do not have permission to add network equipment to your LAN, then please ask your Network Administrator beforehand. They will also need to provide you with an IP address and network settings to get this Serial Device Server functional.

Step 1: Unpack Box contents and Install NPort Administration Software

Unpack and verify contents included with your Serial Device Server. The box should contain the following.

- Nport 5110 Serial Device Server
- 12VDC Power Supply
- Installation CD

Step 2: Installing NPort Administrator Software:

Insert CD and run the Setup Program file - it should be located in the following path:

D:\NPort 5000 Series V2.3\NPort 5110\Software\
Windows\Npadm_Setup_Ver1.7_Build_07021218.exe

Follow all setup steps to complete installation.

After installation completes launch the NPort Administrator software.

Step 3: Setting up the Hardware

1. Plug an Ethernet cable (optional) from your hub or switch to the Serial Device Server.
2. Plug in the 12VDC Power Supply and verify the "READY" LED is on Green.
3. Connect the DB9 Serial Cable to the Serial Device server and the other end to the SCADA 3000 COM 1 DB9 connector or the Sensaphone 2000 DB9 Connector.

Step 4: Searching for the Serial Device Server

Follow these steps to search for your Serial Device Server using the NPort Administrator Software:

1. Click the "Search" button to locate the Serial Device Server.
2. Select the Serial Device Server with the default IP address of 192.168.127.254
3. Click the configure button.

Step 5: Serial Server Configuration

You should now be at the Configuration screen.

1. Select the "Network" tab.
2. To change the IP address, check Modify.
3. To change the Netmask, Gateway and DNS, check Modify.
4. Click "OK"

Step 6: Mapping the Com Port

Next you will need to map the COM port you will be using to connect to the Serial Device Server.

1. Click on "Com Mapping" located in the Function window to the Left.
2. Click "ADD".
3. Highlight and Click "OK" when your Serial Device Server appears in the "Add NPort" Window.

Step 7: Com Port Settings

1. Highlight the Serial Server in the "Com mapping" window and click "Configure"
2. In the "Com Port Settings" window use the defaulted COM port or choose an available COM port if needed.
3. Click on the "Serial Parameters" tab and configure the settings as follows:
Baud: 38,400
Parity: None
Data Bits: 8
Stop Bits: 1
Flow Control: RTS/CTS

Next, click the Advanced Tab and choose the "Fast Flush" option. Click OK and close out of NPort Administrator.

Note: The SCADA 3000 Manager software will only allow configuration up to COM 5, so any configuration beyond COM 5 will not be detected.

Follow Steps A-1 & A-2 for the SCADA 3000 Manager Setup

Step A-1: Configuring SCADA 3000 Manager Software Com port

- Next you will need to let the SCADA Software know what Com port you will be using to connect to the Serial Device Server.
- Open the SCADA Manager Software then go to Comm>Setup.
- In the “Comm port Setup” window select the port you previously mapped in the NPort Software.
- Check the Enable Box and Full Duplex Buffering Box.
- Select the Type as “serial” set the baud rate to 38,400 and increase “Buffer Size” to 300.
- Click OK.

Step A-2: Connecting to The SCADA 3000

Finally you are ready to make a connection to your SCADA 3000 using a Serial to Ethernet Converter.

- Click on RTUs on the Control Center.
- Click on “NEW” on the “Unit Database” window.
- Enter in a unit description and the phone number to the unit.
- Select the Serial port you previously setup in the Control Center and NPort Administrator.
- Click OK.
- Click “Online”.

You should now see a Register verification window and are currently connected via Serial to Ethernet.

Follow Steps B-1 & B-2 for the 2000 Manager Setup

Step B-1: Configuring Sensaphone 2000 Manager Software

Finally you are ready to make a connection to your Sensaphone 2000 using the Serial to Ethernet Converter.

1. Open the Sensaphone 2000 Manager Software.
 - Click on “Open”.
 - Click on “New”. Fill-in the units phone number, description, status and programming password.
 - Click “OK”.

Step B-2: Connecting to the Sensaphone 2000

1. Click the Setup Box on the “Open Connection” window.
2. Select the Serial port you previously setup in the NPort Administrator.
3. Click “OK”.
4. In the “Open Connection” screen click “Connect”.

You should now see a download progress bar and are currently connected via Serial to Ethernet.

If you have any further questions, please feel free to contact our technical support department directly at 877-373-2700 ext 260 or via email Support@Sensaphone.com