



siteCOMMANDER FFSK with Icom Repeater Setup

Overview

This installation and configuration guide provides the necessary information to interface the repeater radios Icom UR-FR6000 to both a TASC siteCOMMANDER FFSK Alarm Monitoring Unit as well as a PC running the TASC siteVIEW 2.0 software. The interface allows a transfer of alarm information over a radio link to a computer loaded with siteVIEW 2.0 Alarm Monitoring and Control Software.

Hardware

- 2 x siteCOMMANDER with FFSK module
- 2 x Icom UR-FR6000 Repeater
- 1 x Icom OPC-1122U Programming cable

FFSK to Icom DB25 Pin out

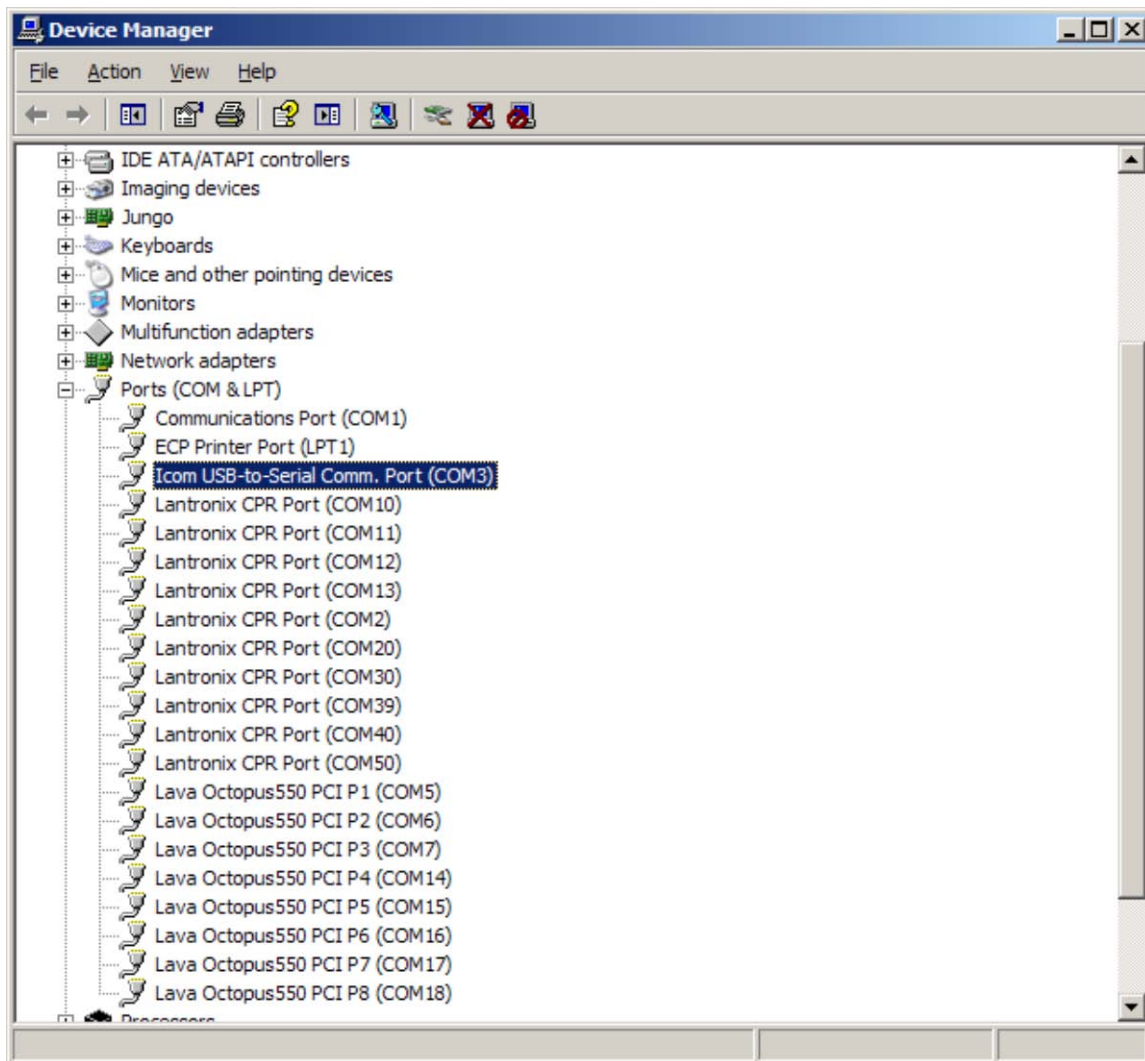
Connect the FFSK (RJ45) to the Icom (DB25) according to the following pin assignment.

FFSK – RJ 45		Icom – DB25 (default Config.)	
1	M-Signal Opto-isolated input A	17	Busy output, active Low
2	Ground	14	Ground
3	Not Used		
4	Tx	8	MOD IN: Input 300mV rms
5	Rx	9	DISC OUT: 300mV rms
6	Ground	14	Ground
7	PTT output	19	EPTT Input: 5V pull up, active Low
8	Ground	14	Ground



Icom FR-6000 Repeater Setup

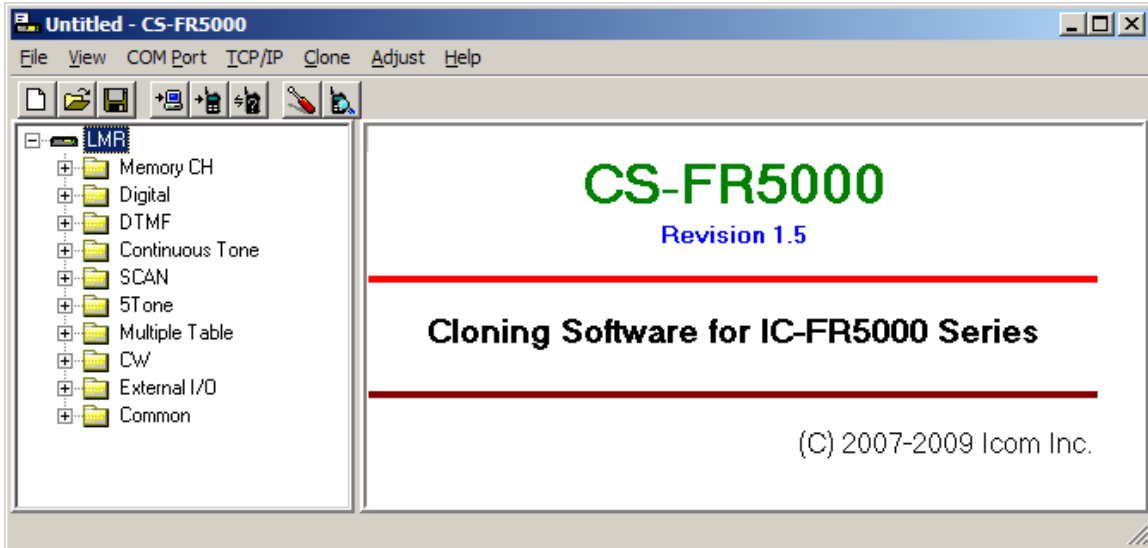
1. Connect the USB programming cable into the Computer, the RJ45 side to your radio.
2. Your computer will automatically assign a COM port to the programming cable, to find out the COM number, go to “Device Manager”, under “Port (COM & LPT)”, look for “Icom USB-to-Serial Comm. Port (COM n)”.




3. Remember this COM number.



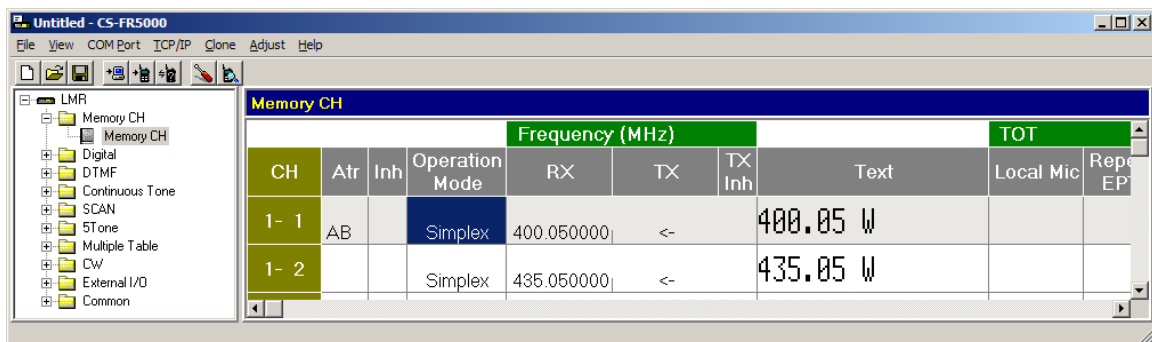
4. Launch CS-FR5000 software.



5. Under "COM Port", select the COM port for your Icom programmer.
6. Click on the "Clone Read" icon, 



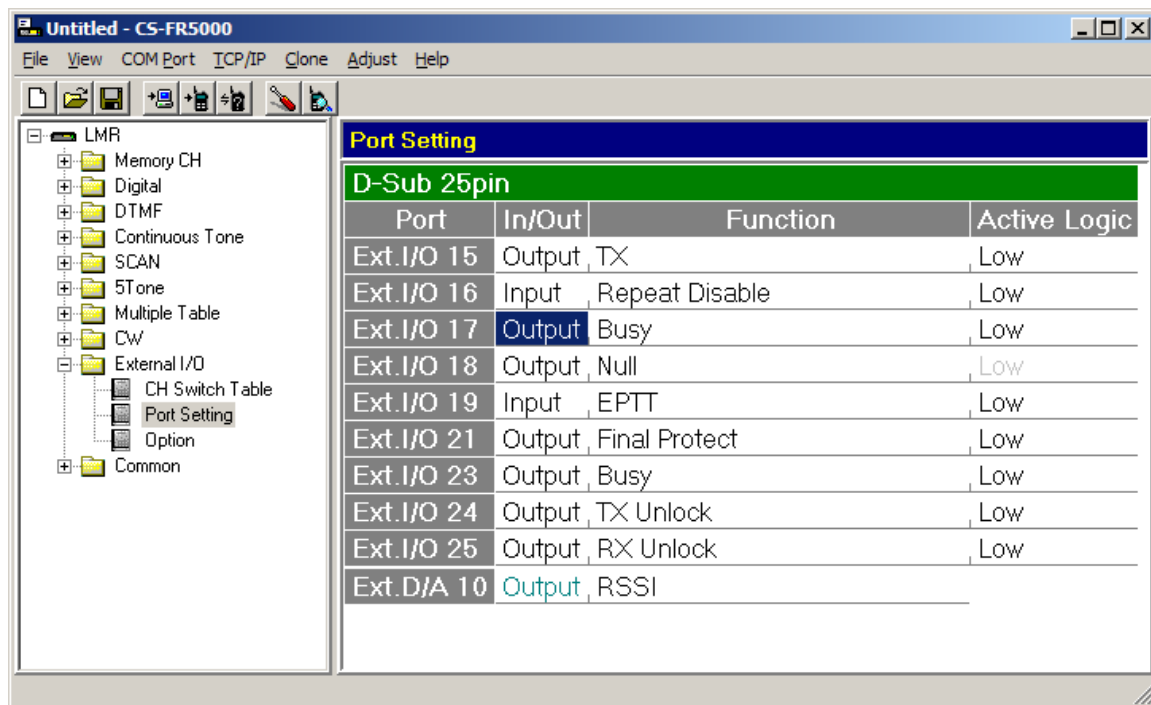
7. When it is finished, on the left menu tree panel, go to "**Memory CH**" folder, select a zone, select a channel.
8. Set your RX, TX frequency both the same.
9. Set Operation Mode to "Simplex".
10. Set CH Type to "Analog".







- Go to **External I/O**, then **Port Setting**:

Ext I/O 17, Output, Busy, Low
Ext I/O 19, Input, EPTT, Low



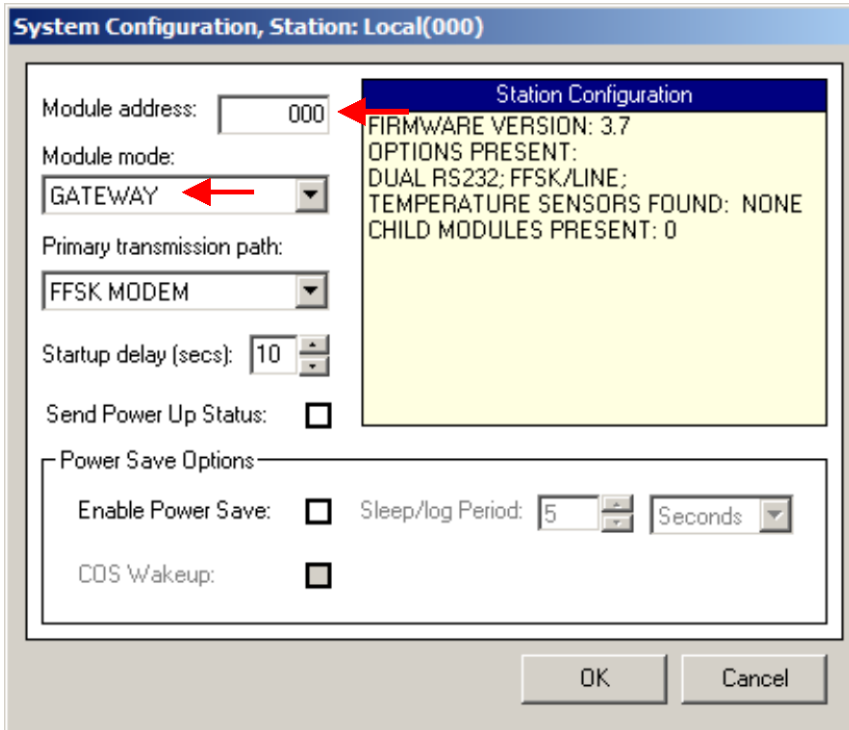
- “Clone Write” and exit the program.
- When finished, click “Clone Write”,  to upload the configurations.
- Do the same for the 2nd radio.
- This concludes the programming of your Icom UR-FR6000 repeater.

siteCOMMANDER Gateway Setup

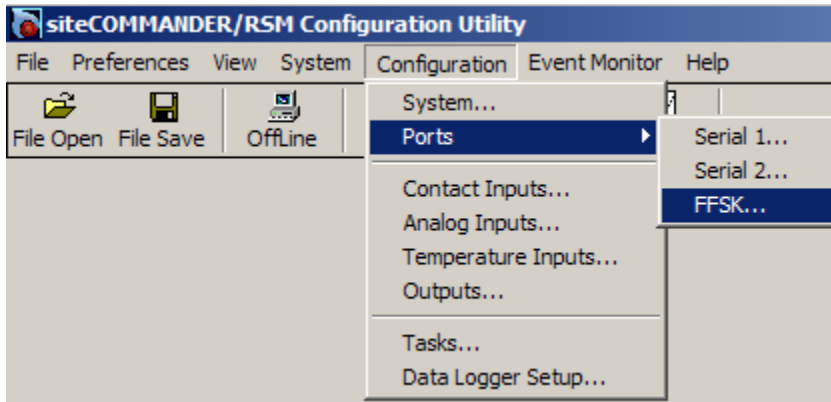
- Connect your siteCOMMANDER Gateway unit locally with computer, and open SCCU.
- In SCCU, select the correct COM port and click on the Read button, , click **“Connect Local”**



- Change the module address to 000, module mode to Gateway, everything else leave as default.

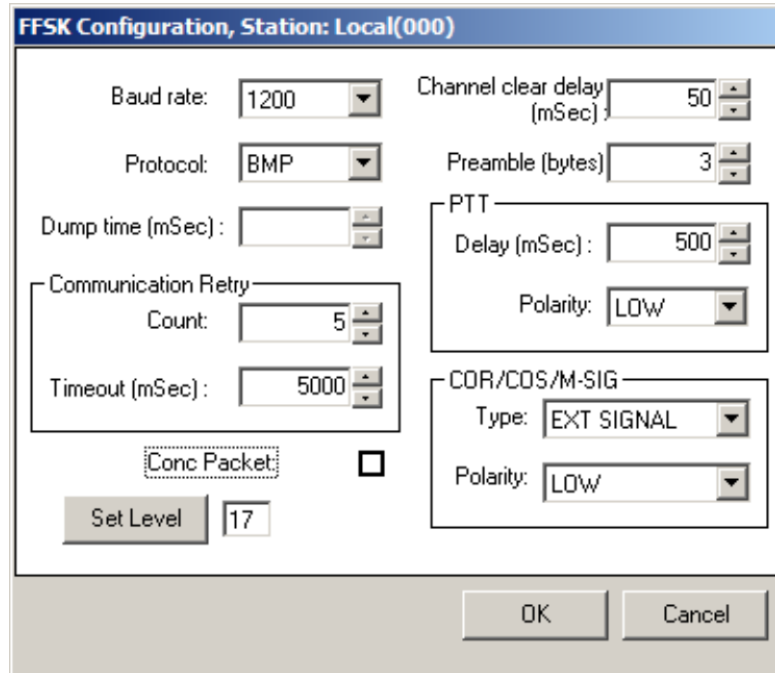


- Press OK.
- Go to **“Configuration -> Ports -> FFSK...”**





- Change the Baud rate, Timeout delay, PTT delay, PTT Polarity, Channel clear delay, COR Type and Polarity according to following fig.:



FFSK Configuration, Station: Local(000)

Baud rate: 1200 Channel clear delay (mSec): 50

Protocol: BMP Preamble (bytes): 3

Dump time (mSec):

Communication Retry
Count: 5

Timeout (mSec): 5000

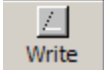
Conc Packet

Set Level 17


PTT
Delay (mSec): 500
Polarity: LOW

COR/COS/M-SIG
Type: EXT SIGNAL
Polarity: LOW

OK Cancel

- Note, the Set Level needs to be tuned for each system to achieve optimal signal quality.
- Click OK to exit FFSK Configuration.
- Click "Write",  icon to upload the configurations.
- Power cycle the unit.
- This concludes the configuration procedures for siteCOMMANDER Gateway unit.

siteCOMMANDER Remote unit setup.

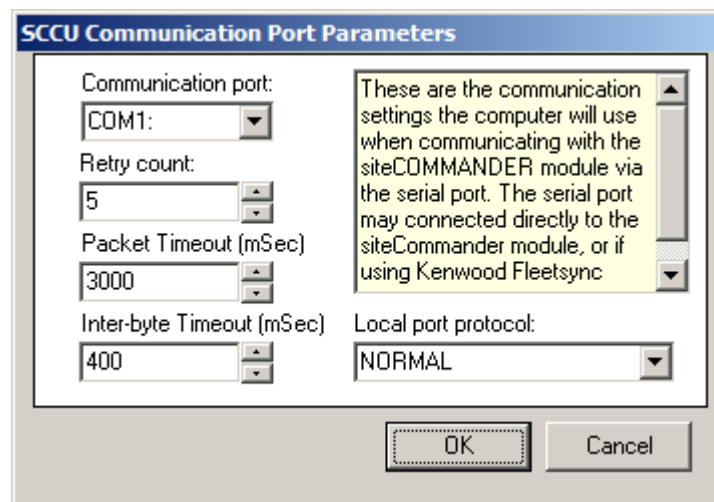
- Connect your siteCOMMANDER remote unit locally with computer, and open SCCU.
- In SCCU, select the correct COM port and click on the Read button, , click "**Connect Local**".
- Set **Module address** to any number, set module mode to "**Slave-NoMapping**".
- Press OK.
- Go to "**Configuration -> Ports -> FFSK...**".



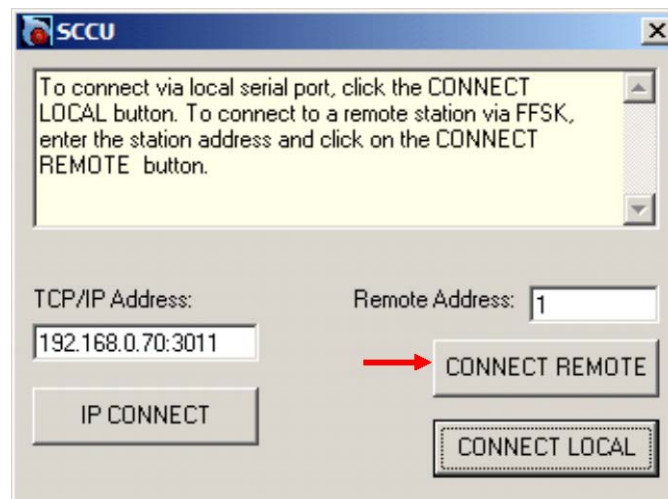
6. Use the same parameters as the Gateway unit.
7. Click on "Write" button to upload the configurations.
8. This concludes the configuration procedures for siteCOMMANDER remote unit.

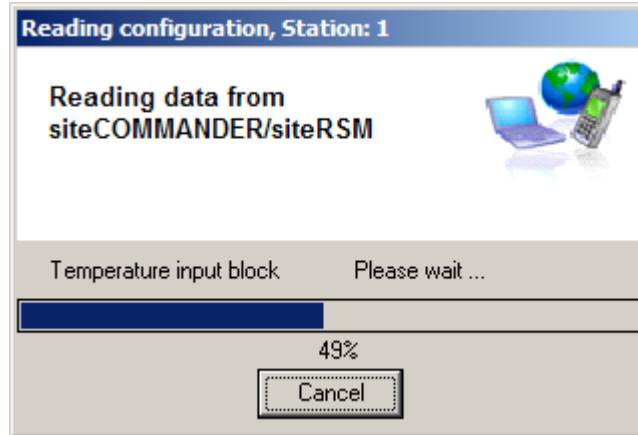
Testing Connections in SCCU:

1. Connect your COM port to the Gateway unit.
2. Port setting:



3. Click "Read".
4. In the pop up window, click "CONNECT REMOTE".

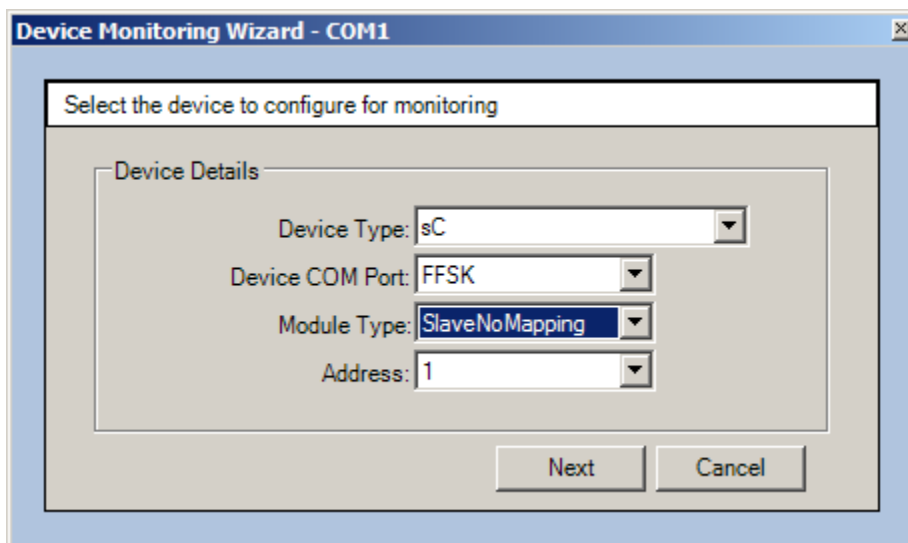




5. The two radios should communicate through a series of tones to transmit the data.
6. This concludes the connection testing in SCCU.

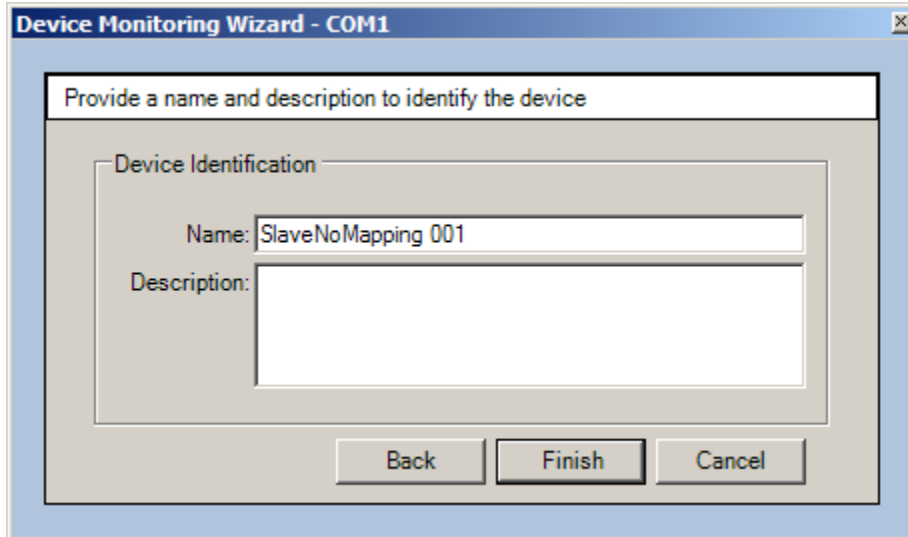
Testing Connections in siteVIEW

1. Add a COM port.
2. Change Packet Timeout to 4secs, Inter-Byte to 300ms.
3. Add a new device.





4. Next.



5. Give it a name and click **Finish**.

6. siteVIEW will now poll the remote device via FFSK-Radio link.

Communication	
X	COM1 SlaveNoMapping 001 4 Retrieve AllTemperatureIn Queued
X	COM1 SlaveNoMapping 001 4 Retrieve AllOutputs Queued
X	COM1 SlaveNoMapping 001 4 Retrieve AllContactInputs Processing
	COM1 SlaveNoMapping 001 4:37 Retrieve AllAnalogInputs Completed
	COM1 SlaveNoMapping 001 4:37 Retrieve DeviceStatus Completed

7. End of document.