# Testing Xon / Xoff (Software Flow Control) with a 3wire Null Modem Cable.
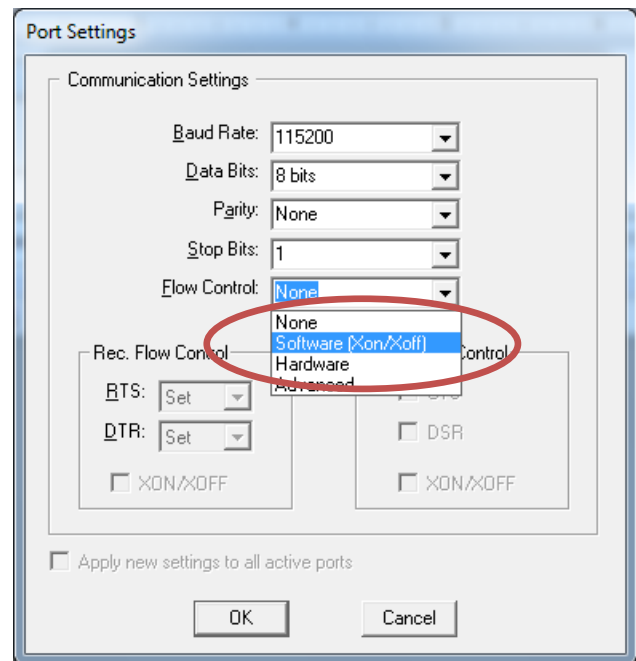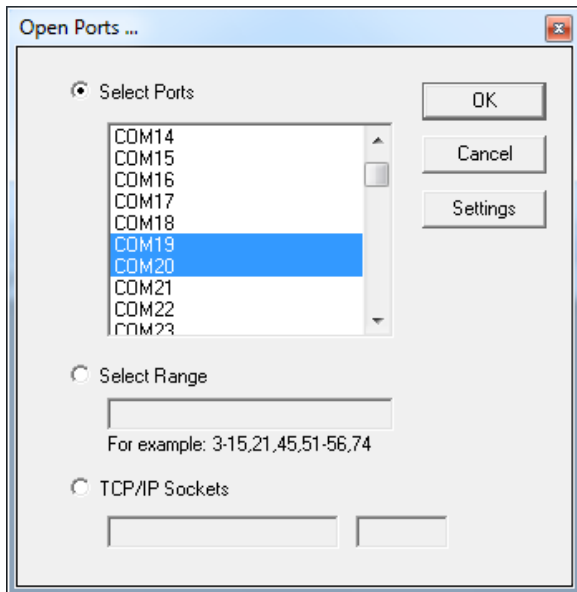
Connect a null modem cable (described at the end of this document) from port1 to port2 on the DeviceMaster that is being tested. In this example we will be using com19 and com20 as physical serial port1 and port2.

Open Test Terminal
Test Terminal is included in PortVision in the File > Applications drop down menu.
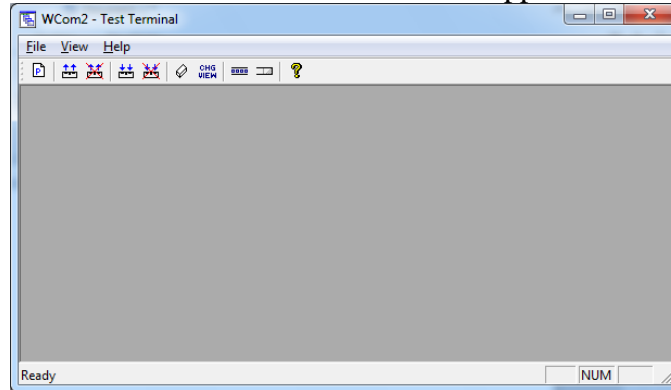
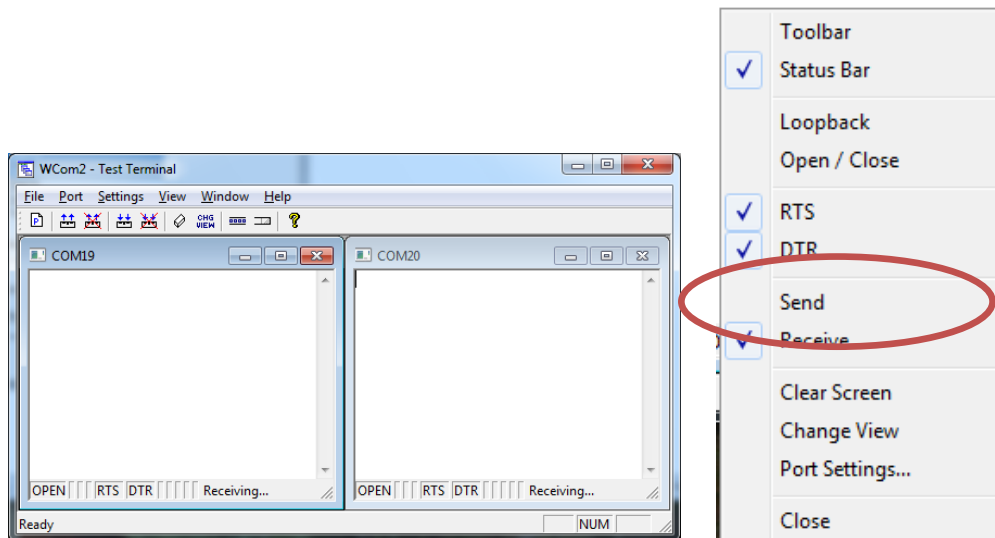Click the File drop down menu and select Open Port

Select the 2 com ports to open and then click on Settings
In the Port Settings window select the appropriate settings being sure to select Software (Xon/Xoff)
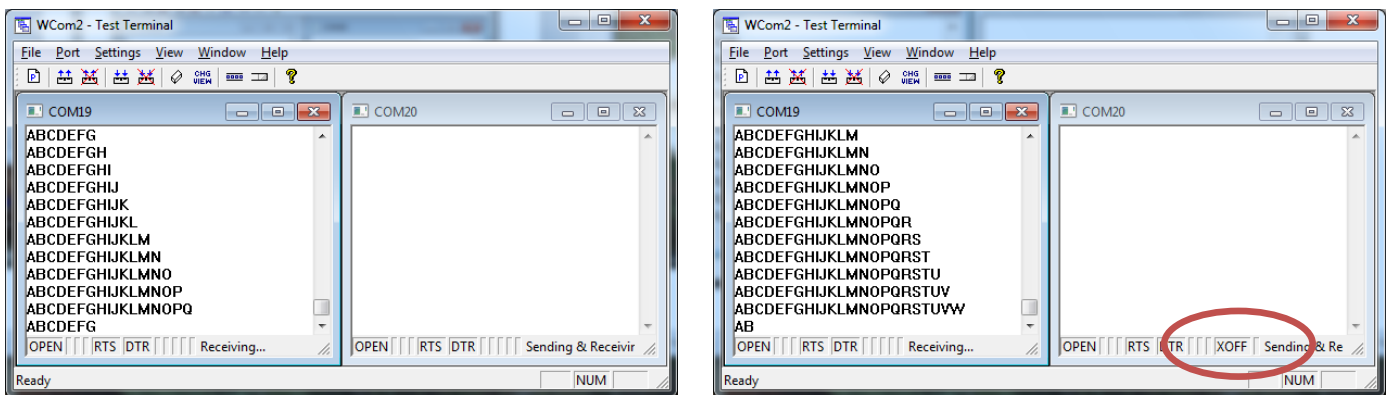Click OK to close the Port Settings panel
You will be returned to the Open Ports… panel
Click OK

Right Click in the Com20 window and a pop-up menu will appear. Select the Send option.

At this point the COM19 port should have the alphabet scrolling past in a 'sawtooth' type pattern.
Highlight the window that has the scrolling data (COM19) and using the keyboard hold the Ctrl key and press the letter 's' key. Release both keys. The data should cease flowing.
In the COM20 window an indicator should appear on the status bar indicating XOFF
In the COM19 window using the keyboard hold the Ctrl key and press the letter 'q' key.
Data should again be flowing and the status bar indicator will no longer show the XOFF.

In COM20 Right Click and remove the checkmark on Send. The data should stop scrolling in COM19
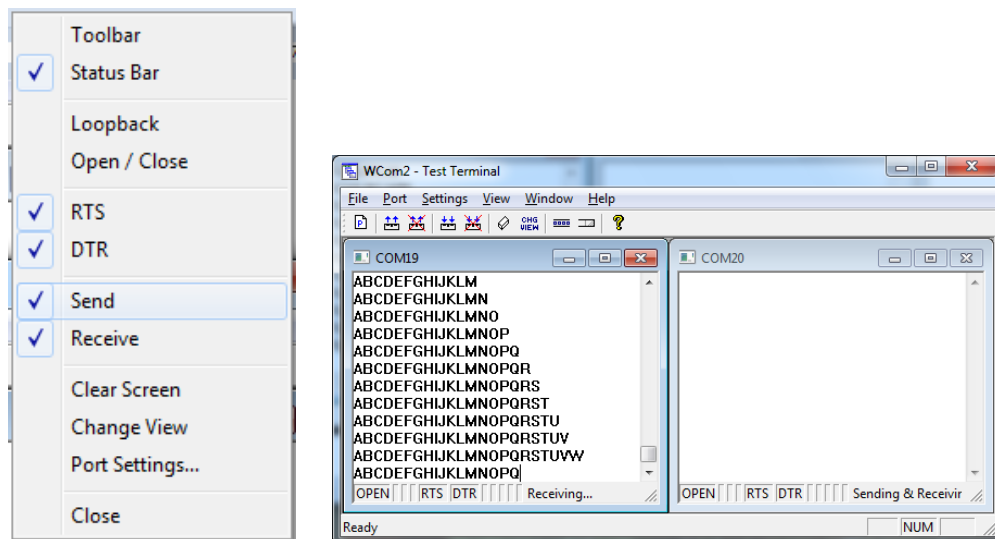
Right Click in COM19 and select Send.

At this point the COM20 port should have the alphabet scrolling past in a 'sawtooth' type pattern.

Highlight the window that has the scrolling data (COM20) and using the keyboard hold the Ctrl key and press the letter 's' key. Release both keys. The data should cease flowing.
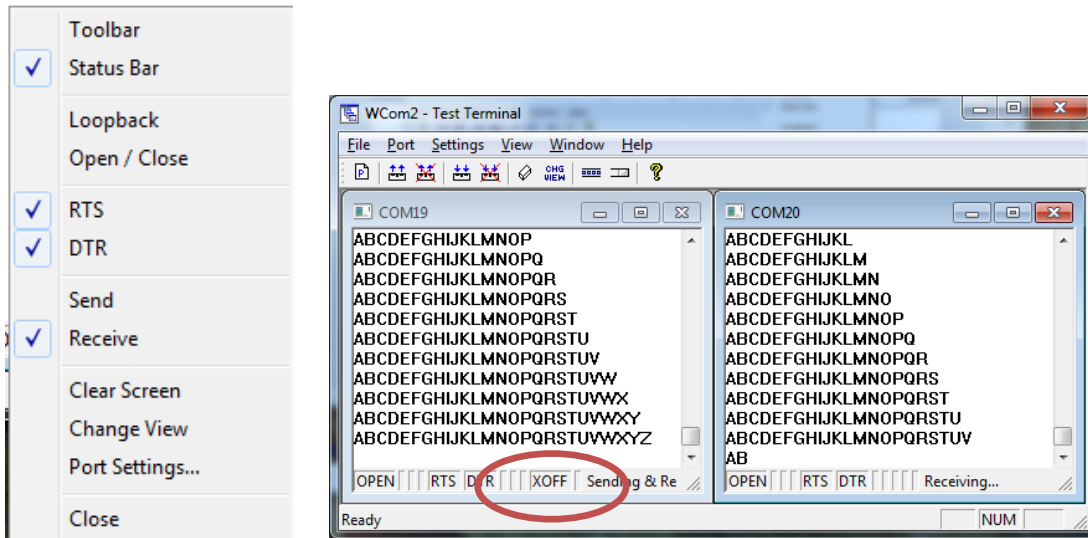
In the COM19 window an indicator should appear on the status bar indicating XOFF

In the COM20 window using the keyboard hold the Ctrl key and press the letter 'q' key.

Data should again be flowing and the status bar indicator will no longer show the XOFF.

This concludes the testing of the Xon/Xoff functions.

RJ45 to RJ45 Null Modem 3Wire Cable

RJ45   RJ45
Pin3 (Ground)   Blue   Pin3 (Ground)
Pin4 (TxD)   Orange   Pin5 (RxD)
Pin5 (RxD)   White/Orange   Pin4 (TxD)

DB9 to DB9 Null Modem 3Wire Cable

DB9   DB9
Pin2 (RxD)   White/Orange   Pin3 (TxD)
Pin3 (TxD)   Orange   Pin2 (RxD)
Pin5 (Ground)   Blue   Pin5 (Ground)