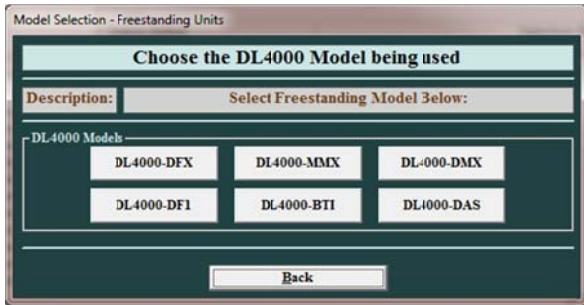


## DL4000 MMX MODBUS RTU to MODBUS ASCII Application Note

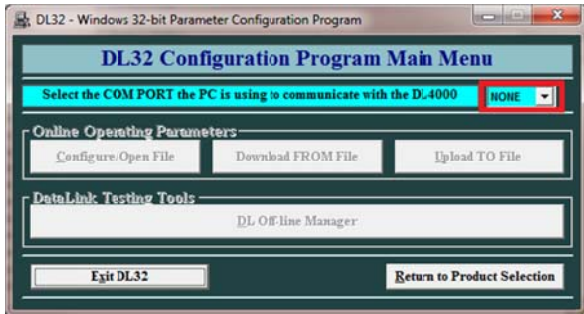
To configure the DL4000-MMX start the DL32 configuration software and select the DL4000 Models



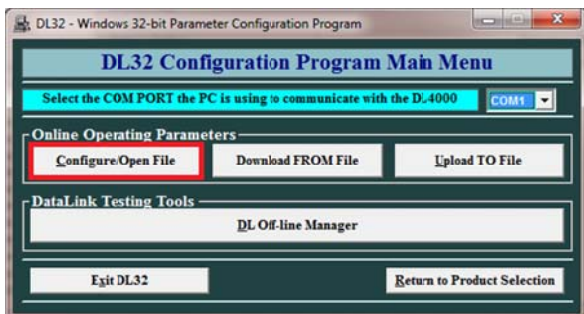
Select DL4000-MMX



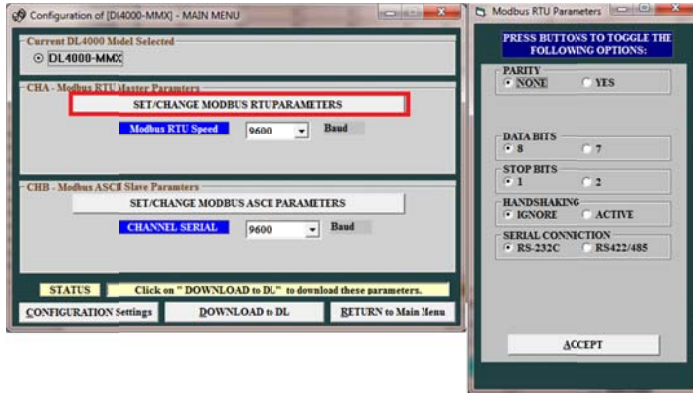
From the drop menu of the COMPORT that is connected to the PC used to configure the DL4000.



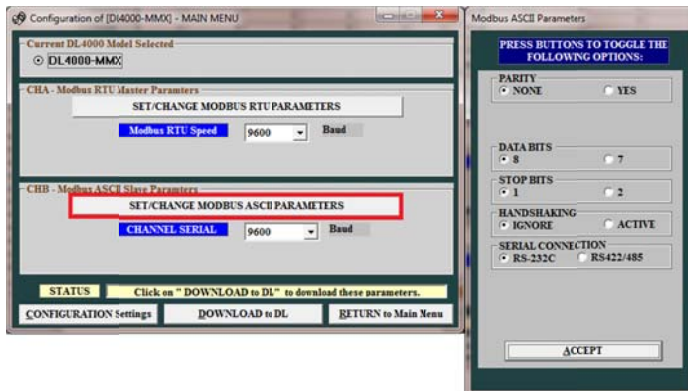
Click on Configure/open File



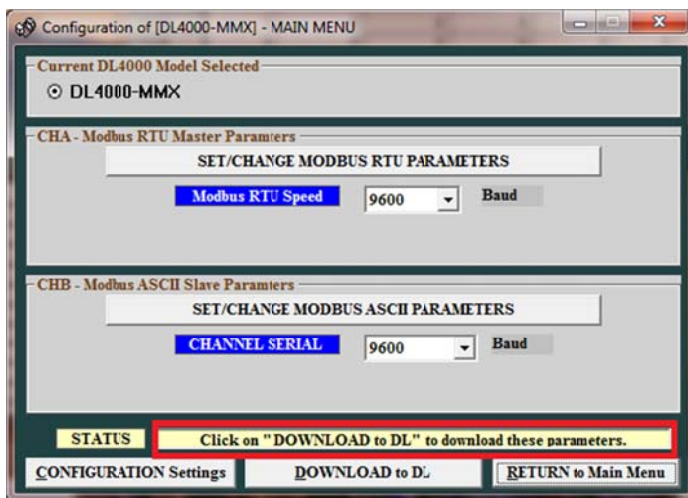
Click on SET/CHANGE MODBUS RTU PARAMETERS, and select the settings similar to those that match your MODBUS RTU device.



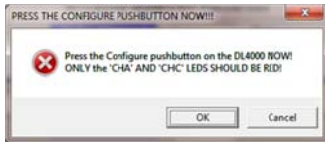
Click on SET/CHANGE MODBUS ASCII PARAMETERS, and select the settings similar to those that match your MODBUS ASCII device.



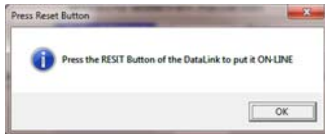
Click on Download to DL



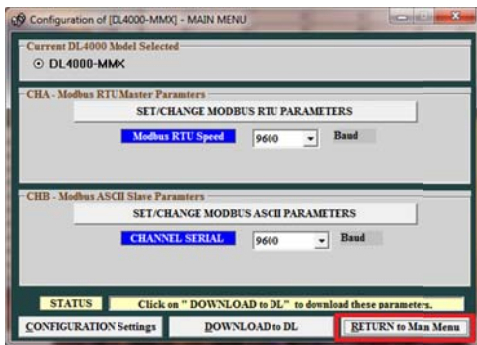
Press the configure push button on the right hand side of the DL4000 unit and click on OK



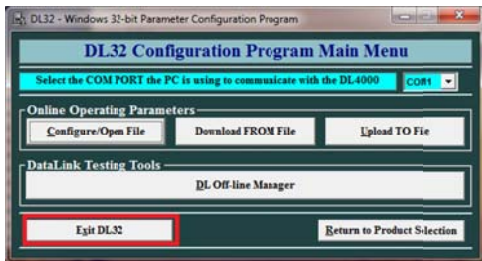
Press the RESET push button on the left hand side of the DL4000 unit and click on OK.



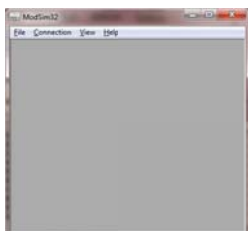
Click on Return to main Menu



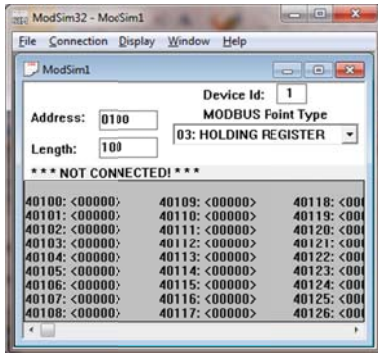
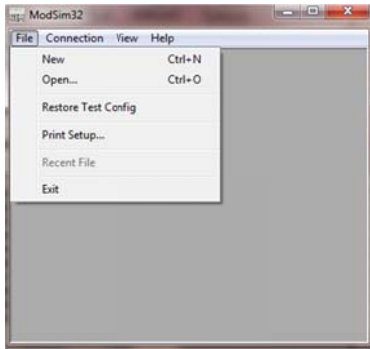
To close the DL32 configuration software click on Exit DL32



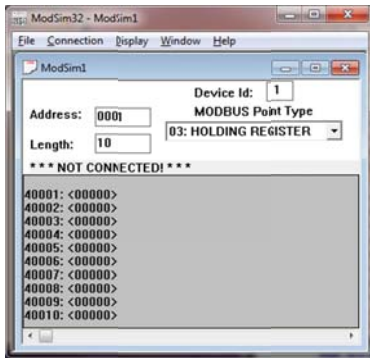
In our application we used the MODBUS simulator. MODSIM as our slave running on one PC connected to port one side of the DL4000, and MODSCAN as our Master on another PC connected on the other side of the DL4000. Start the MODSIM32 as our MODBUS ASCII Slave.



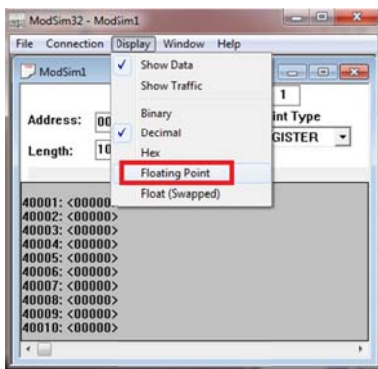
Under file click on New



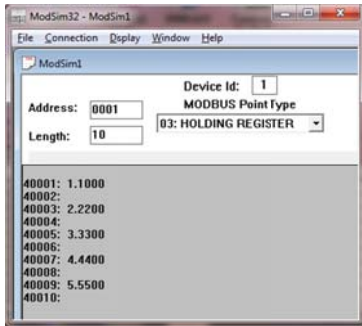
Device Id is the ASCII slave Device ID  
Address is the Registers address  
Length is the number of registers  
MODBUS Type 03 is for HOLDING REGISTERS  
In our application we will set for Slave ID 1, address 01 for register 40001 and 10 registers



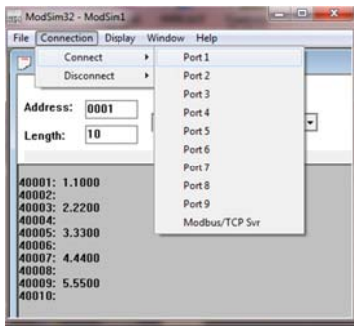
In our application we selected data type as Floating point.



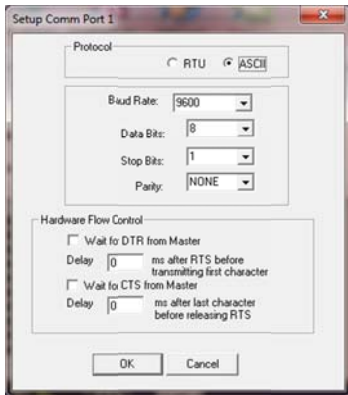
Changed floating point values to those shown below



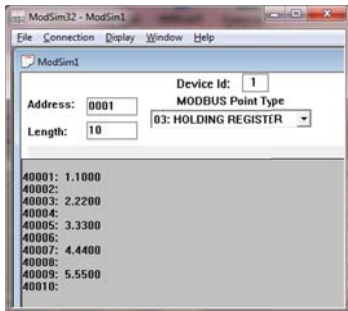
Then under connection we used comport 1 to connect.



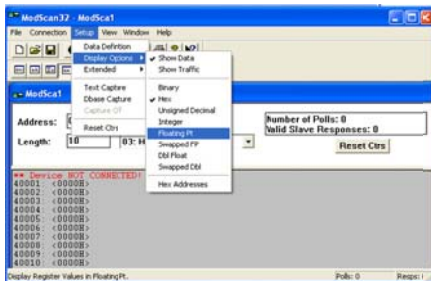
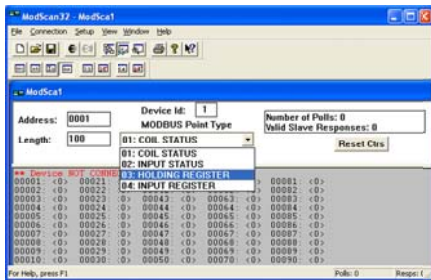
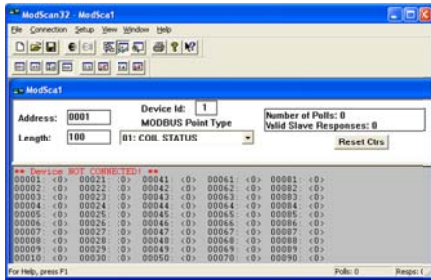
Under setup comport we choose the same settings we set the DL4000 ASCII CH for.



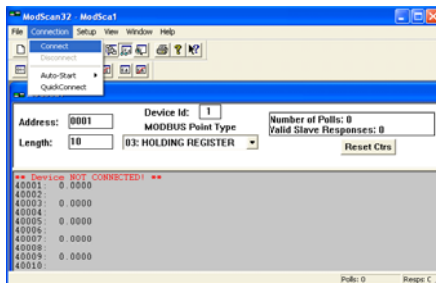
That concludes the ASCII side



Start the MODSCAN as our MODBUS RTU Master, and set the Device Id, Address, Length, MODBUS point Type and Data type.



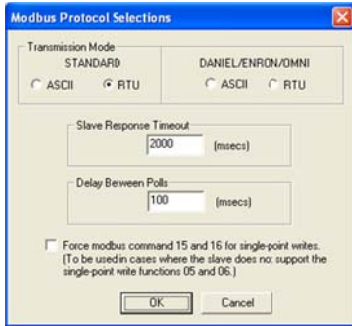
Then under connect, connect to the port of the RTU side.



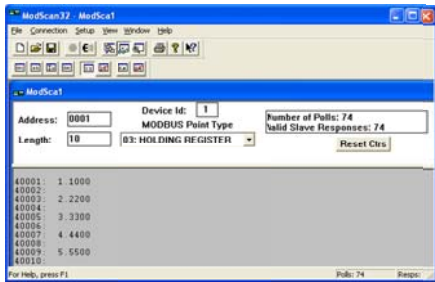
From the drop menu select the Comport and similar setting to those of the DL4000 RTU.



Select RTU as the transmission mode and then click on OK.



Here you should see the same values in the ASCII side on the RTU side.



Now if you change any of the values in the ASCII side you should be able to see the values changes in the RTU side as well as shown below.

