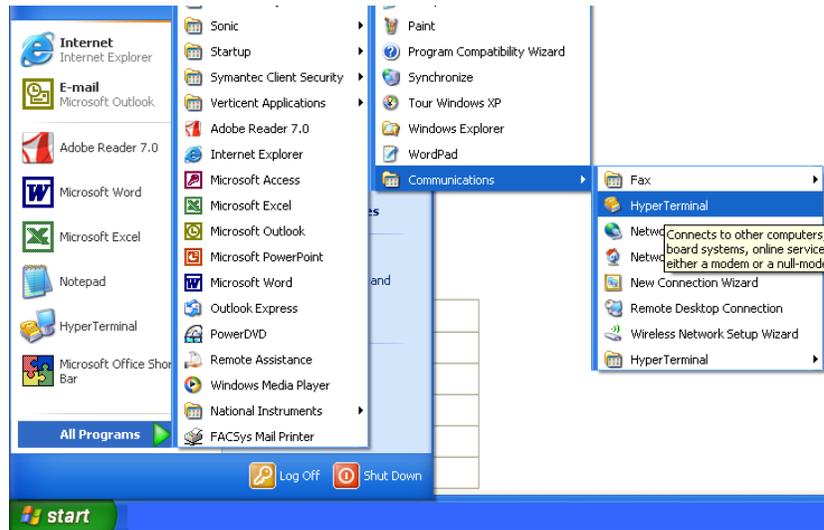


Setting up a Hyper Terminal Application

1. Start a HyperTerminal session from the start menu.



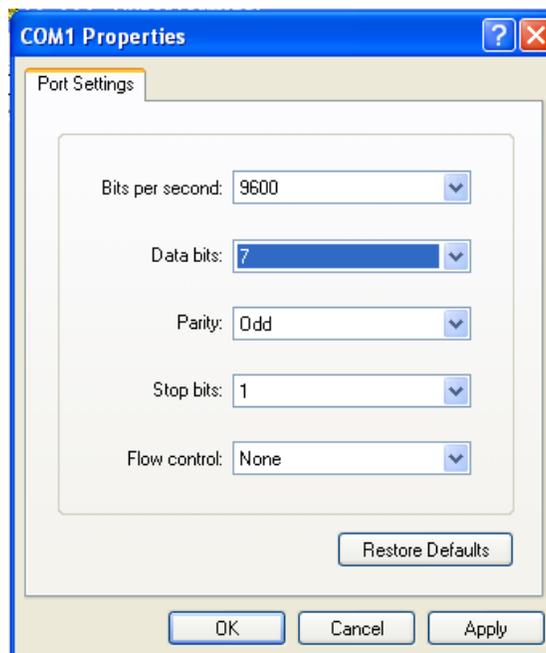
2. Enter a name for the terminal session (e.g., LS 331, LS 332, LS340) and click **OK**.



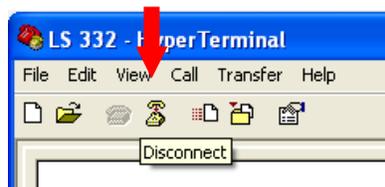
3. Select the COM Port you will be using and click OK:



4. Enter the configuration information for baud rate, data bits, parity, and flow control as provided in the instrument manual, then click **OK**.



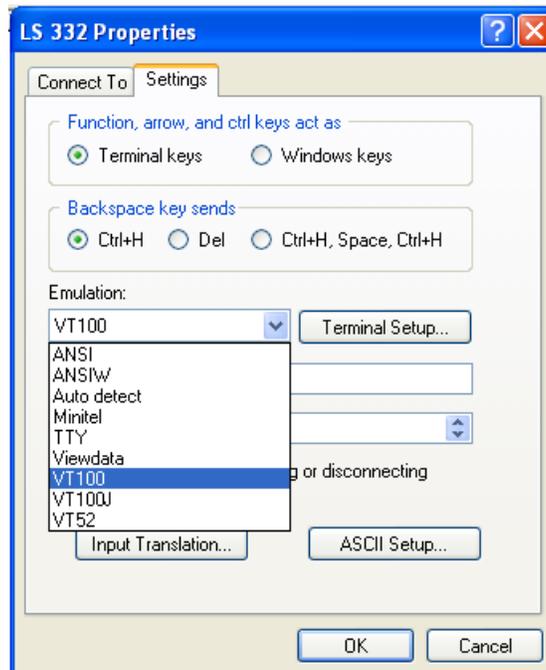
5. Click on the **Disconnect** icon.



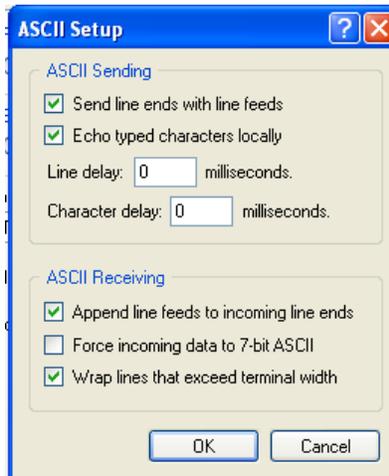
6. Click on the **Properties** icon.



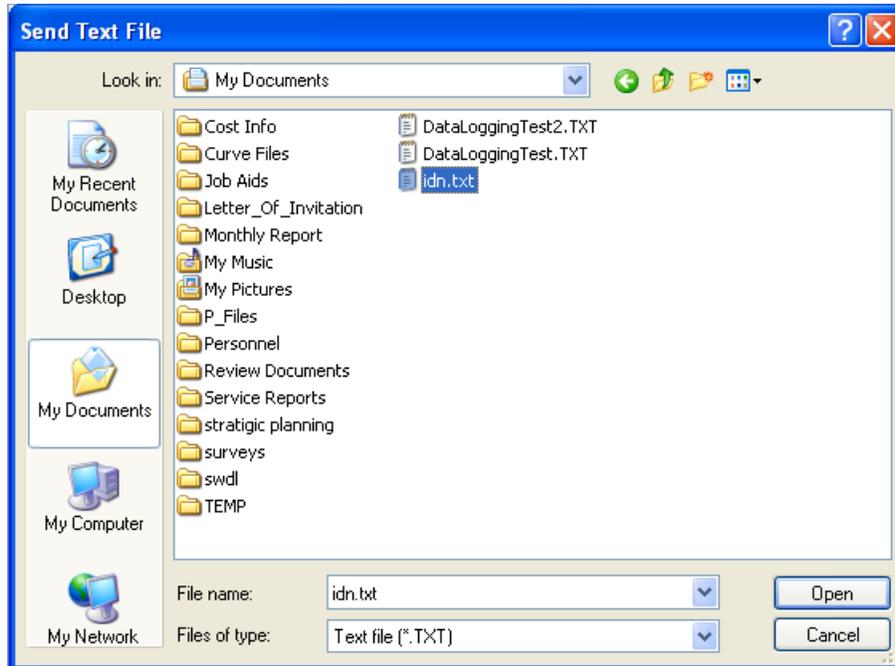
7. Under the **Settings** tab, select **VT100** from the Emulation drop down.



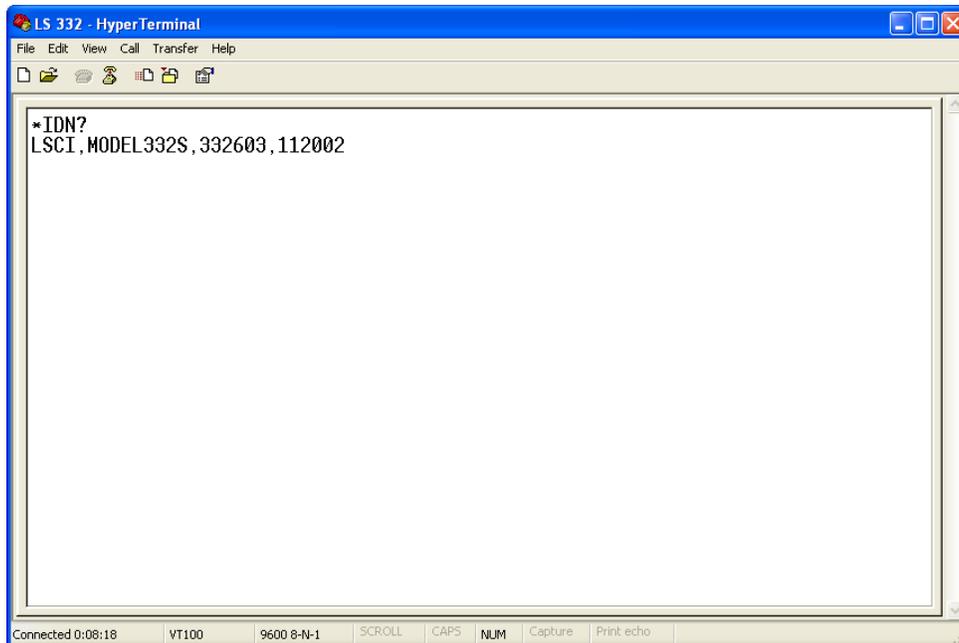
8. Click on the **ASCII Setup** button and check all boxes except for **Force Incoming Data to 7 Bit ASCII**.



- Click **OK** twice to return to the terminal window. Test the connection by clicking on **Transfer** and selecting **Send Text File**. Open the IDN.TXT file when the Send Text File dialog opens:



- If the serial connection is configured correctly and the cable is properly wired, you should see the *IDN? Command and resulting instrument response in the window.



Physical Connection Information

USB to RS232 Adapters Tested with Lake Shore Equipment

The manufacturer and model numbers of the adapters that were tested successfully are the Gold-X model GXMU-1200, and the MCM model UC320 (manufacturer and model number is not listed on the UC320 device or on any of the packaging or instruction manuals; the Newark-In-One part number is 90H0129). The Gold-X adapter was tested with a program written in Visual Basic 6.0 using the built-in serial communications module MSComm32.OCX. Both models were tested using a National Instruments LabVIEW™ program.

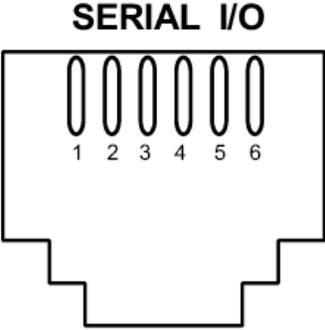
Typical PC 9-PIN Serial Connector



Pin	Signal	Pin	Signal
1	DCD	6	DSR
2	RXDA	7	RTS
3	TXDA	8	CTS
4	DTR	9	RI
5	GND		

To construct a cable for connecting a PC equipped with a male DB9 connector to any Lake Shore instrument with a male DB9 RS232 interface connector, obtain two female DB9 connectors and place a strap between pins 1, 4, 6, and 8 on each connector. Using 50 ft or less of tightly twisted cable, connect pin 2 to pin 3, pin 3 to pin 2 and pin 5 to pin 5 of the two connectors.

Typical Lake Shore RJ-11 Serial Connector



C-201-4-1.eps

PIN	DESCRIPTION
1	Serial In (RxD)
2	Serial In (RxD)
3	Serial Ground
4	Serial Ground
5	Serial Out (TxD)
6	Serial Out (TxD)

To construct a cable for connecting a PC equipped with a male DB9 connector to any Lake Shore instrument with a female RJ11 RS232 interface connector, obtain one female DB9 connector and one male RJ11 4- or 6-pin plug. Connect pins 1, 4, 6, and 8 together on the DB9 connector. Using 50 ft or less of tightly twisted Cat-5 cable, connect pin 2 of the DB9 connector to pins 5 and 6 of a 6-pin RJ-11 connector or pin 4 on a 4-pin connector; connect pin 3 of the DB9 connector to pins 1 and 2 on a 6-pin connector or pin 1 on the 4-pin connector; and pin 5 to pins 3 and 4 on the 6-pin connector or pins 2 and 3 on the 4-pin connector.

Lake Shore Model 2003 RJ11 to DB9 Adapter

The Lake Shore Model 2003 adapter can be used along with a Lake Shore 2001 RJ-11 cable assembly to connect a 9-pin PC serial interface to any Lake Shore instrument with the RJ-11 interface.

Please Note: you cannot use two Model 2003 adapters with the 2001 cable assembly to connect a 9-pin PC serial interface to Lake Shore instruments equipped with the 9-pin serial interface.

