

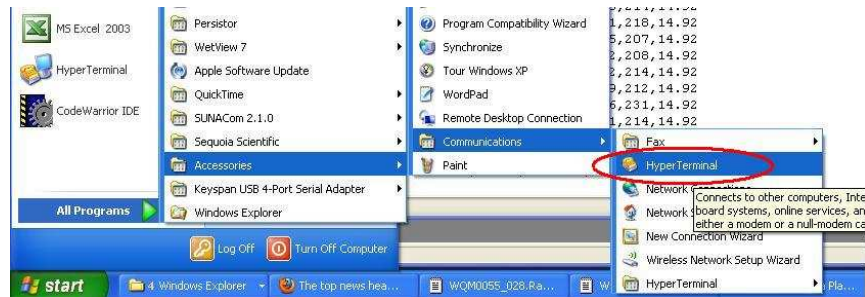
ECO Terminal Program Basics

Setup of the Hyperterminal Program

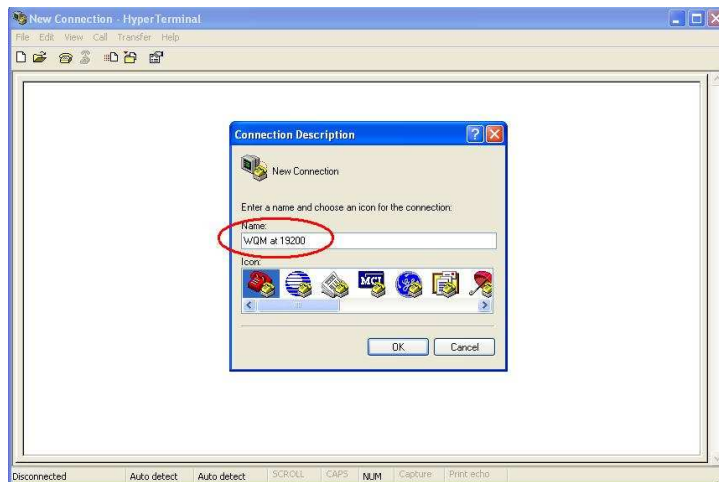
Most terminal programs may be used to access the ECO instrument via the serial port of the host PC. This is very useful to troubleshoot the PC serial connection or the instrument operation if there is a problem using the ECO View software. A common terminal program called “Hyperterminal” is supplied with most versions of Windows (pre-Windows 7).

To connect to Hyperterminal:

- 1) Access and start the program. A typical path from the Windows “Start” menu is shown here (click on “Hyperterminal”):



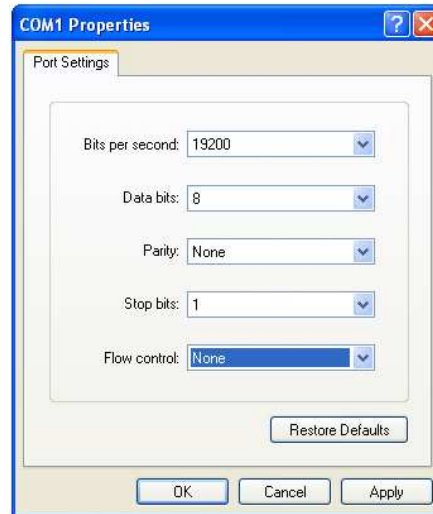
- 2) Enter a name and press OK (example shows a WQM):



- 3) Select the PC COM port from the pull-down menu. Press OK:

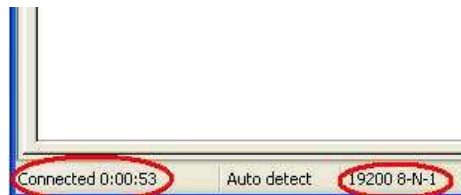


- 4) Set the COM port properties. Baud rate (bits per second) = 19200, 8 data bits, no (None) parity, 1 stop bit, no (None) flow control. Press OK.



NOTE: standard ECO's use a baud rate = 19200. OEM versions of ECO firmware use baud rates = 9600 or 4800. OEM platforms contain three-letter designations (e.g. "VMT", "AP2", "BLU") appended to the model name (e.g. BB2FL, BBFL2, FLBBCD)

- 5) In the lower left corner of the Hyperterminal program, in the status bar, verify that "Connected hh:mm:ss" is running (shown below). NOTE: click the mouse within the terminal window (white) background to ensure it is active.



The terminal program setup is complete.

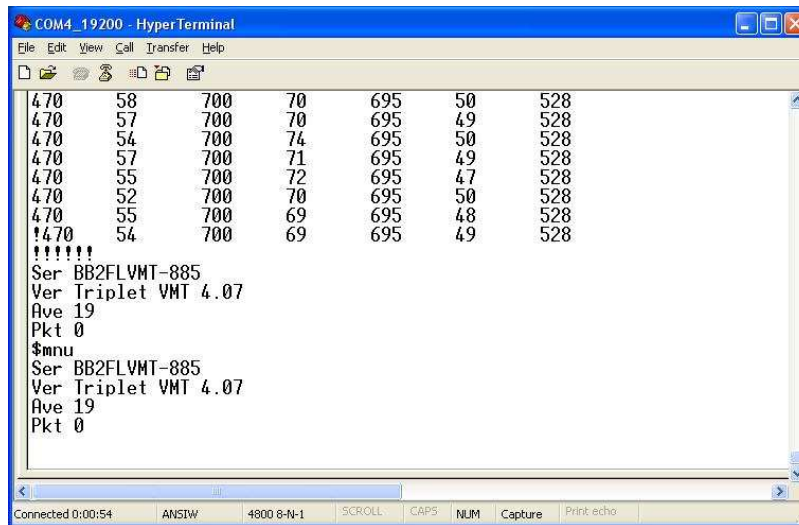
Verifying the ECO Operation – Entering Manual Commands

- 1) Connect the ECO instrument to the test set up (power supply & computer):
 - a. Plug a test cable into the ECO instrument
 - b. Connect the serial (9-socket) DB-9 connector into the PC COM port
 - c. Connect the power feed to a +9V (fresh!) or +12 V power supply.

NOTE: the ECO input voltage range is 7-15 Volts
- 2) Turn on the power supply or plug in the battery.
- 3) Verify that output from the ECO is scrolling on the terminal screen.
- 4) Press and hold the Shift + 1 (exclamation point) keys for 2 seconds (!!!!!!!!!!!!!!!.....). This is the “Stop” command for the ECO.
- 5) Verify that the ECO output has stopped and the sample parameter menu is displayed.

At this point, the ECO is in Standby. Then:

- 6) Type “\$mnu<enter>” to redisplay the programmed sample parameters, to verify that control of the ECO has been established.



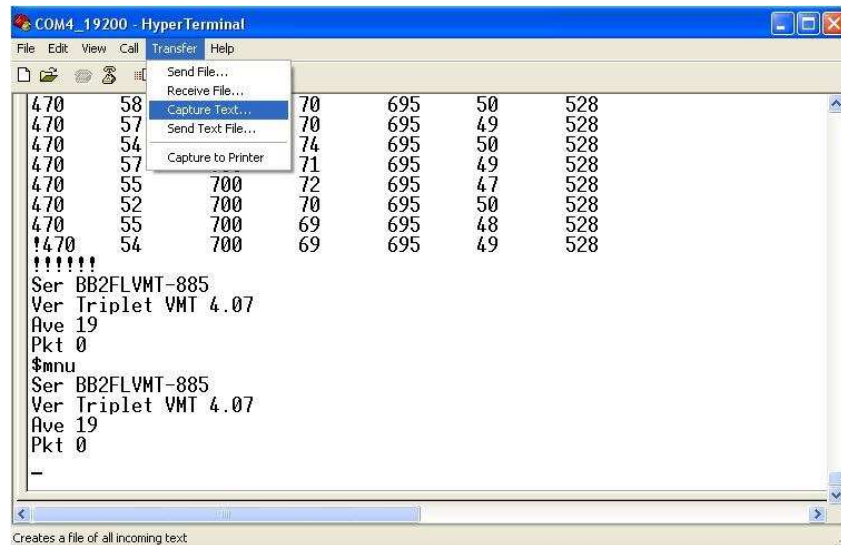
- 7) At this point, you can enter any of the manual commands outlined in the ECO User manual, Edition 3 (05/2014), Sec. 3.7, pg. 17.

Manual Command example

- 8) type “\$get<enter>” to output the logged data from memory.

NOTE: using the “\$get” command with the Hyperterminal “Capture Text” function will allow a “*.txt” (ASCII data) file to be saved to the PC.

- 9) “Capture Text” is accessed in Hyperterminal via the “Transfer” pull-down in the upper menu bar (Transfer → Capture Text):



- 10) Then, follow the browse window to name the file (.txt).

- 11) To stop the transfer, access “Capture Text → Stop”, similarly:

