Serial Communication Test with PC

Note: Test does not apply if using USB communications.

Note: HyperTerminal is no longer standard in Win 7 or later versions of Windows. It can still be obtained on line or copied from an XP computer. Similar Programs such as PuTTY or MT Albatross can be used. A HyperTerminal serial (RS232) test can be conducted to see if serial communication problems are occurring. This test can determine if the issue is with the scale connection / communication to the PC, or if the issue is within the shipping software program itself.

The HyperTerminal test will confirm

- o If the scale is properly connected to the PC
- $_{\odot}$ $\,$ If the scale is able to communicate by serial RS232 to the PC $\,$
- o If the scale is able to display the correct weight



Power Supply required with RS232 connection

Run this test whenever it is unknown as to why the manifest or shipping software is not showing a weight, or the proper weight, on the PC screen.

- 1. Connect Scale to the PC as shown below. Note the COM port on the PC that the scale is connected to for step 5.
- 2. After scale powers up, enter GeoCal value if "Geo in" is displayed. See Quick Start Guide for Geo Location Codes and how to enter the value.
- Check the scale's serial set up parameters per steps in chap 4. Home > SetUp > Communications > Serial. Write down the values for Baud, ASCii, Parity, Stop Bits and Protocol as you will need to enter the matching data in the HyperTerminal screen.
- 4. Access the HyperTerminal program on your PC as shown below. HyperTerminal is a standard Windows program in XP operating systems under Accessories >

Communications, and can still be downloaded from the Internet for later versions of Windows. An Internet search for HyperTerminal will show numerous suppliers.



5. Once HyperTerminal is opened, choose "File" then "New Connection". Name the connection "BC Scale" for future reference and click "OK". Click on the drop down bar for "Connect Using". Select the communication port that the scale cable is connected to on the PC. COM A would be equivalent to COM 1. Click "OK" when completed.

Connection Description	Connect To
New Connection	BC Scale Comm Test
Enter a name and choose an icon for the connection: Name:	Enter details for the phone number that you want to dial
BC Scale Comm Test	Country/region: United States (1)
lcon:	Area code: 614
	Phone number.
	Connect using: COM1
OK Cancel	OK Cancel

 Program the same set up parameters in HyperTerminal as per the Baud, ASCii Data Bit, Parity, Stop settings in the scale. For the Flow Control setting, input "None". Scale does not use this parameter.

OM1 Properties		<u>? ×</u>
Port Settings		
<u>B</u> its per second:	9600	Baud
<u>D</u> ata bits:	7	Databi
Parity:	Even 💌	Parity
<u>S</u> top bits:	1	StoP
Elow control:	None	
	Restore Defaults	
0	K Cancel Ap	ply

Click Apply after entering the data values. The data will be accepted. Click OK and a blank HyperTerminal screen will appear.

- 7. Now that the scale set up matches the HyperTerminal set up, type in the corresponding weight command per the Proto setting in the scale.
 - Put some weight on the scale. Note display value (i.e. 1.58 lb).
 - Go to the HyperTerminal screen and click the curser on the blank screen.
 - Type the required entry per chart to the right. Capital letters "W" must be used, a lower case "w" will not work. Note that the typed "W" does not get displayed unless Echo is checked

Weight Protocol	Proto	Type in
Mettler toledo	Toledo	W
FedEx	Proto F	W <cr></cr>
UPS	Proto U	<cr></cr>
Purolator	Proto P	W <cr></cr>
DHL	Proto D	W <cr></cr>
MT SICS	MT-SIC	S <cr></cr>

in the HyperTerminal settings.

File Edit View Call Transfer Help	PS scale Properties	? ×
New Connection	Connect To Settings	
Save Save As	Function, arrow, and ctil keys act as Image: Comparison of the set of the se	
Page Setup Print	Backspace key sends	ASCII Setup
Properties Exit Alt+F4	Emulation. Auto detect	ASCII Sending Send line ends with line feeds Echo typed characters locally
	Telget terminal ID: ANSI Backscroll buffer lines: 500	Line delay: 0 milliseconds.
Displays the properties of the current sess	Play sound when connecting or disconnecting Input Translation. ASCII Setup	ASCII Receiving
	ОКСа	Eorce incoming data to 7-bit ASCII Wrap lines that exceed terminal width
		OK Cancel

- A weight value should now be displayed on the HyperTerminal screen that
 - matches the weight on the scale display. If another message appears, zero the scale first by repeating this step with no weight, then try again with a weight.

🍓 BC Scale Comm T	est - HyperTen	ninal 📃 🗆 🕽
<u>File Edit View Cal</u>	<u>T</u> ransfer <u>H</u> elp)
02 28 02) 🖻	
001.58		
•		
Connected 0:23:01	Auto detect	9600 8-N-1

If the same weight is displayed on the scale and HyperTerminal screen: *The scale is communicating correctly to the PC. Consult Shipping Software provider for further assistance.*

Note: It is important to initially click the curser on the blank screen.

Note: <CR> is carriage return or Enter

Note: To see the character you typed (IE:W), go to FILE – PROPERTIES – SETTING tab – ASCII SETUP box, and click "Echo typed characters locally". For MT SIC Proto, also click "Send line ends with line feeds".