

TECHNICAL NOTE

May 23, 2003

SUBJECT: DATATRACE® USB Connection

PROBLEM: The DATATRACE® PC Interface connects via a 9-pin Serial Port to the computer for communication. In many newer computers, especially laptop models, there are no 9-pin Serial port connectors. They have been replaced by USB ports.

CURE: A simple adaptor is available from Keyspan (P/N: USA19QW) that provides a connection between the computer's USB port and the PC Interface's 9-pin RS-232 connector. When properly installed and configured this adaptor allows normal communication between the computer and the DATATRACE® Tracers.

PROCEDURE:

The following procedure assumes that the DATATRACE® for Windows (DTW) has been installed on the target computer and the user is now ready to make the physical connection between the USB port and the DATATRACE® PC Interface.

1. Insert the Keyspan High Speed USB Serial Adaptor software by inserting the CD into the CD drive of the target computer.
2. After a short delay the Install Shield Wizard screen appears indicating that the Keyspan High Speed USB Serial Adaptor Setup program is ready to start. Press Next.
3. The next screen is the License Agreement. After you have read this agreement, click Yes.
4. The setup asks for the user to choose a Destination Location. We recommend that the default location be accepted. Press Next.
5. The next screen shows the Setup Status with a completion bar of the various files being loaded onto the computer. When finished, the screen displays the Install Shield Wizard Complete window. Press Finish.
6. The program returns to the desktop screen.
7. Connect the DATATRACE® PC Interface to the Keyspan Adaptor and plug the Keyspan USB connector into a free USB port on the target computer.
8. Left click on the Start button, select Programs, then click on Keyspan High Speed USB Serial Adaptor icon. Double click on Keyspan High Speed USB Serial Adaptor Assistant.
9. The first screen shows Adaptor Status. Note the Comm port designation, e.g., Comm3.

Step #10 is only necessary if non-MPIII Tracers will be used on this system. If only MPIII Tracers will be used, skip to step #11.

10. Click on the Keyspan Adaptor Assistant Properties tab. About half way down the screen is an option titled "Receive FIFO Buffer Size". The normal setting is 16 (default). Click on the drop down list and select 8 as the value. Close the Assistant. When asked to save the new configuration settings, click OK.
11. Start the DTW program. Click on Setup|System Setup. On the first screen, about $\frac{3}{4}$ of the way down the Auto Find Serial Port is displayed with a check mark in the check box. Click on the check mark to remove it. When the check mark is removed the Comm port number to the right becomes active.
12. Change the number displayed in that scroll box to the number noted in item #9 above. Click Close.
13. Click Main|Program Tracer|Test Tracer to verify that communications are functioning correctly.

Once installed, the DATATRACE® system should work fine through the USB Port. The Keyspan installation should not need to be repeated unless the system is moved to another computer.