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USB Driver Update Procedure for Windows 7 PCs and UPLC Front Panel Communication via USB Cable

1. **Items Required for Upgrade**

- PC with Windows 7 Operating System (OS), 32 or 64 bit)
- USB A/B Cable
- UPLC with USB interface Catalog Number
- FTDI USB Driver update file for Windows 7, (ver 2.8.24.0)
    - File name CDM_2.08.24_WHQL_Certified
    - Driver can be obtained from Ametek / Pulsar Website
        - http://www.pulsartech.com/pulsartech/html/DynaPage.asp?PageID=17

2. **Procedure**

To install CDM drivers for an FTDI device under Windows 7, follow the instructions below:

Connect the device to a spare USB port on your PC.

If there is an available Internet connection, Windows 7 will silently connect to the Windows Update website and install any suitable driver it finds for the device.

If the automatic installation takes place there is no need to continue with the procedure outlined below.

If no suitable driver is automatically found then the following procedure should be followed.

Press the Windows start button to bring up the start menu and select "Control Panel".

From the Control Panel window select Hardware and Sound

At the next screen select Device Manager:

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Select the second option to browse manually.

Browse to the folder where the CDM driver package was saved and Click Next

When the installation has finished a completion screen is displayed.

Press Close to close this window and go back to the Device Manager Window.

The Device Manager will still show a device under Other Devices but in addition to this there is a new entry under Universal Serial Bus Controllers indicated in the screenshot above as the USB Serial Converter. This indicates the bus layer of the driver is installed. Installing the Virtual Com Port layer of the driver is almost a repeat of the last few steps.

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Select the second option to browse manually.

Browse to the folder where the CDM driver package was saved and Click Next

When the installation is finished a completion screen is displayed.

Note this screen also displays the COM port assigned to the device.
Press Close to close this window and go back to the Device Manager Window.

This time the Device Manager does not have a different Other devices entry but does show entries under COM &LPT which one should now be USB Serial Port (COM3).

NOTE: Not all devices will install to COM3. The COM port allocation is determined by the installation wizard on the basis of the next free com port as designated in the PC registry.

This Concludes the USB Driver Update. In order to proceed with UPLC Serial Communications you will still need to follow the setup procedure in the UPLC Installation Guide, Appendix A for Windows 7