
Engineering Note

Topic: Additional Troubleshooting Steps for the ADC2000-PCI
Product Affected: ADC2000-PCI A/D Converter
Date Issued: 07/16/2002

Description

If you have verified that you have followed the instructions in the *ADC2000-PCI A/D Converter Installation Instructions* located on the Ocean Optics CD or at <http://www.oceanoptics.com/technical/adc2000pci.pdf>, then follow the steps below. Also, if you are using Windows 2000/XP, you must have Administrative privileges on your computer to perform the following steps.

► Procedure

1. Make sure that all files are displayed on your computer by right clicking the **Start** button and selecting **Explore**.
2. Once Windows Explorer is open, select **Tools** → **View** from the toolbar.
3. Select the **Show all Files** option, and then click **OK**.
4. Search your local hard drive for ADC2000PCI_9x.inf in Windows 95/98/Me or ADC2000PCI_2000.inf in Windows 2000/XP.
5. Open the inf file and look for the **Class=%StrClass%** entry and change it to **Class=Unknown Device**. Then save the file.
6. Do another search of your local hard drive for a file named **ADC2000PCI_9x.pnf** in Windows 95, 98, and Me or **ADC2000PCI_2000.pnf** in Windows 2000 and XP and delete it.

Caution

Incorrect changes to the registry can result in permanent data loss or corrupted files.
Modify only the keys that are specified.

7. Click the **Start** button and select **Run**. Type **regedt32** in the open box, and then press **OK**.

8. In the main window, expand the following tree by clicking the boxes on the left of the registry folders with the + symbols:

HKEY_LOCAL_MACHINE

-SYSTEM

-CurrentControlSet

-Enum

-PCI

VEN_10B5&DEV_9050&SUBSYS_...

9. Select **VEN_10B5&DEV_9050&SUBSYS_...**
10. If there is no such registry under the PCI registry, then exit the Registry Editor.
OR
If there is such a registry key, then select **Security** → **Permissions**. Check the **Full Control** box for the current user and press **OK**.
11. Remove the **VEN_10B5&DEV_9050&SUBSYS_...** registry by pressing the **Delete** key while the registry is selected. Delete all copies of this exact registry (if there is more than one instance of this EXACT registry key).
12. Once this registry has been deleted, exit the Registry Editor.
13. Navigate to the Device Manager of your computer:
For Windows 95/98/Me operating systems: Right-click on the **My Computer** icon on your desktop and select **Properties** → **Device Manager**.
For Windows 2000/XP operating systems: Right-click on the **My Computer** icon on your desktop and select **Properties** → **Hardware** → **Device Manager**.
14. Invoke the New Hardware wizard:
For Windows 95/98/Me operating systems: Click the **Refresh** button.
For Windows 2000/XP operating systems: Click the **Scan for Hardware Changes** button.
15. Click **Next** when prompted. Windows then reinstalls the drivers for the ADC2000-PCI card.
16. When Windows is finished installing the drivers, start the Ocean Optics software you have installed and follow the steps in the software manual for configuring the software.

If you continue to have problems, please contact Ocean Optics Technical Support for assistance.