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# 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.

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### Caution

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

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

- 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\_...**

- Select **VEN\_10B5&DEV\_9050&SUBSYS\_...**
- 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**.
- 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).
- Once this registry has been deleted, exit the Registry Editor.
- 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**.
- 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.
- Click **Next** when prompted. Windows then reinstalls the drivers for the ADC2000-PCI card.
- 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.**