

HIGH SPEED SERIAL CONTROLLER

INSTALLATION GUIDE

DIG-729
DOC-002
Rev. 1.1

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CHAPTER 1

Introduction

The DIG-729 is a high-speed microcontroller that operates on a serial interface with a control computer. Med Associates currently offers two versions, the PCI version that is installed in an available PCI slot in the host computer, and the USB version that connects to a standard USB port. The USB version is especially well suited to applications using a laptop computer.

The DIG-729 can control devices used in numerous MED Associates systems, including Startle Reflex, Open Field Activity, programmable infusion pumps, and aversive stimulus delivery modules. An SG-219C-10 cable is used to connect the DIG-729 unit to device to be controlled. Devices such as infusion pumps may also be daisy-chained together.

CHAPTER 2

Selecting an Operating System

Installation instructions for the DIG-729 for the PCI and USB versions of the device are slightly different, and also vary depending upon which operating system is installed on the host PC. Consult the following table to determine which section of the manual to refer to:

Table 2-1 – Determine the Device Type and Operating System

Device	Operating System	Go To...
DIG-729 PCI	Windows 98	Section 3
DIG-729 PCI	Windows 2000	Section 4
DIG-729 PCI	Windows XP	Section 5
DIG-729 USB or ANL-729 USB	Windows 98	Section 6
DIG-729 USB or ANL-729 USB	Windows 2000	Section 7
DIG-729 USB or ANL-729 USB	Windows XP	Section 8

CHAPTER 3

DIG-729 PCI Driver Installation - Windows 98

Shutdown the computer and unplug the power cord from the computer. Install the DIG-729 PCI card according to the device card installation procedures supplied with the computer. Reattach the power cord to the computer and turn the computer on. When the system reboots, a message will appear indicating that a new device has been found as shown in Figure 3-1.

Figure 3-1 Add New Hardware Wizard



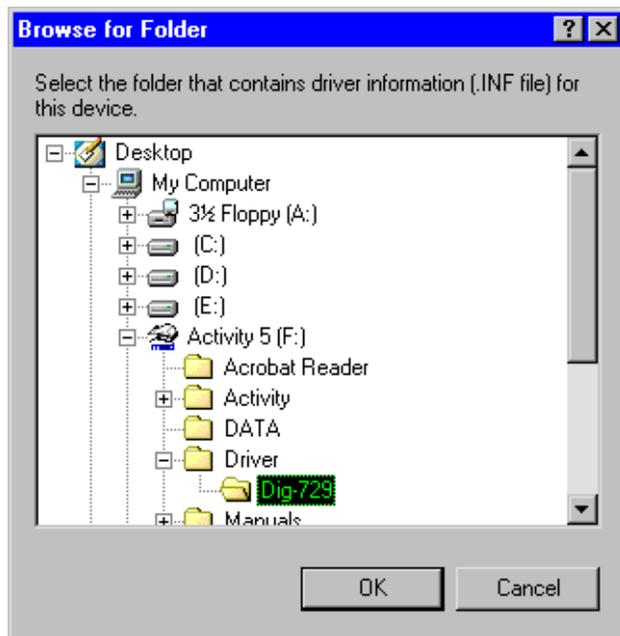
When the screen shown in Figure 3-1 displays, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

Figure 3-2 Search for the Best Driver

When the screen shown in Figure 3-2 displays, select the “Search for the best driver for your device. (Recommended)” option and click the “Next” button.

Figure 3-3 Select Search Location

When the screen shown in Figure 3-3 displays, select the “Specify a location” option and click the “Browse” button.

Figure 3-4 Browse for Folder

When the screen shown in Figure 3-4 displays, go to the Driver\Dig-729 directory on the CD-ROM and then click the "OK" button.

Figure 3-5 Location Specified

When the screen shown in Figure 3-5 displays, click the "Next" button.

Figure 3-6 Ready to Install the DIG-729 PCI Driver



When the screen shown in Figure 3-6 displays, click the “Next” button.

Figure 3-7 Completing the Add New Hardware Wizard



When the screen shown in Figure 3-7 displays, click the “Finish” button. The driver should now be installed and ready to use.

CHAPTER 4

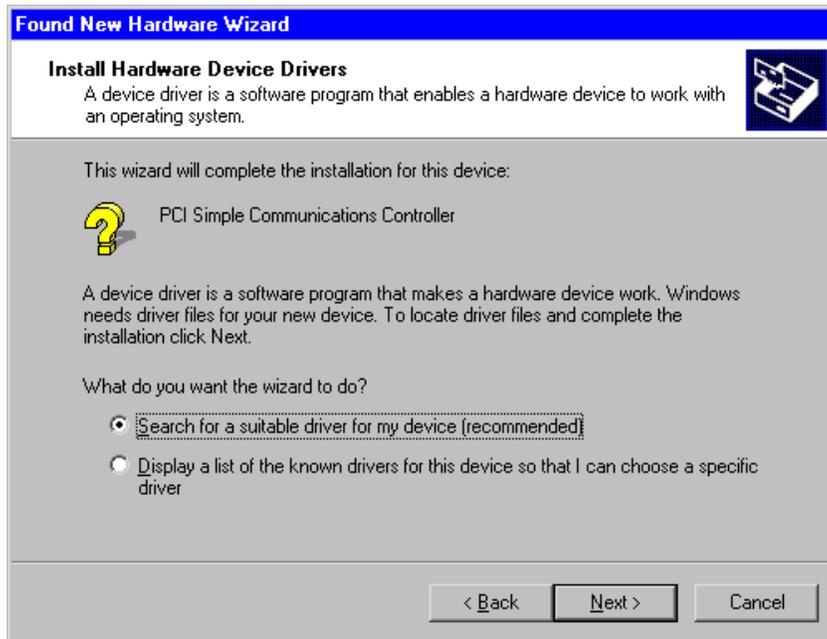
DIG-729 PCI Driver Installation - Windows 2000

Shutdown the computer and unplug the power cord. Install the DIG-729 PCI card according to the device card installation procedures supplied with the computer. Reattach the power cord to the computer and turn the computer on. When the system reboots, a message should appear indicating that a new device has been found, as shown in Figure 4-1.

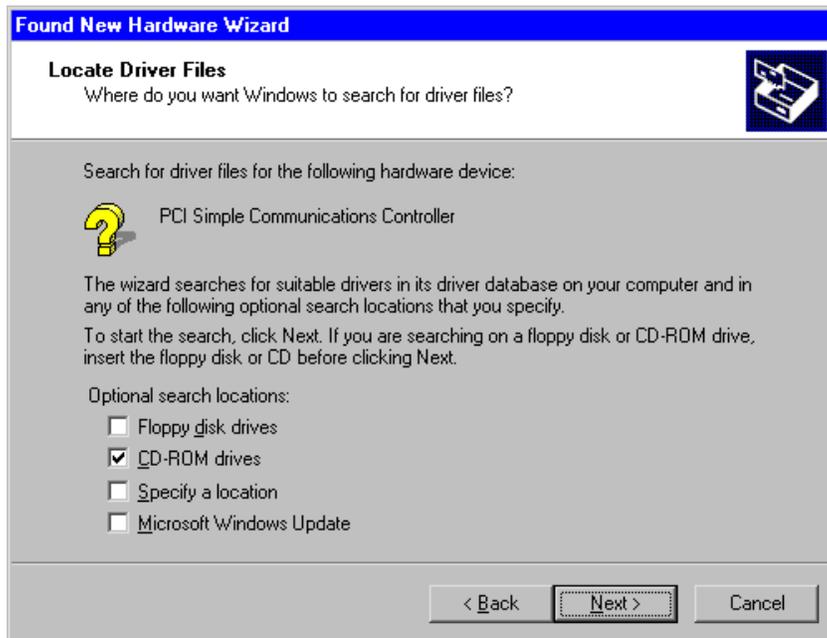
Figure 4-1 Found New Hardware Wizard



When the screen shown in Figure 4-1 displays, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

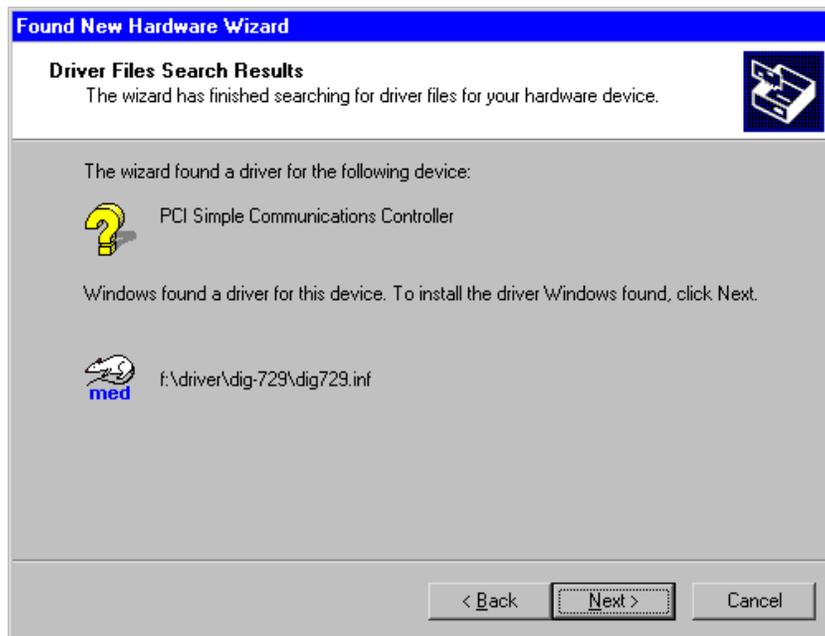
Figure 4-2 Search for the Best Driver

When the screen shown in Figure 4-2 displays, select the “Search for a suitable driver for my device (recommended)” option and click the “Next” button.

Figure 4-3 Select Search Location

When the screen shown in Figure 4-3 displays, select the “CD-ROM drives” option and click the “Next” button.

Figure 4-4 Ready to Install the DIG-729 PCI Driver



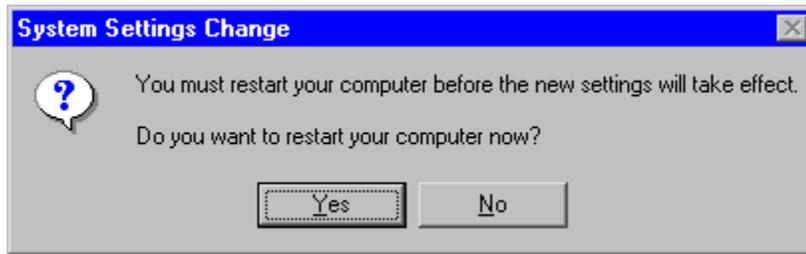
When the screen shown in Figure 4-4 displays, click the "Next" button.

Figure 4-5 Completing the Found New Hardware Wizard



When the screen shown in Figure 4-5 displays, click the "Finish" button.

Figure 4-6 Restart Your Computer



When the screen shown in Figure 4-6 displays, click the "Yes" button to restart the computer. The DIG-729 PCI driver should now be installed.

CHAPTER 5

DIG-729 PCI Driver Installation - Windows XP

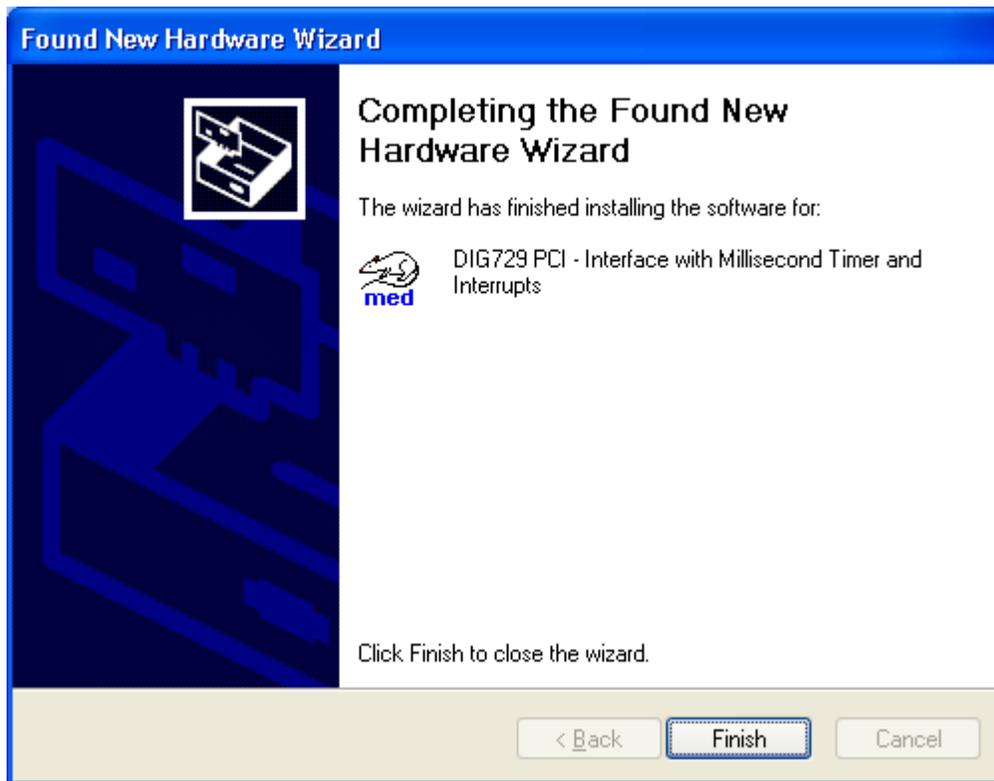
Shutdown the computer and unplug the power cord from the computer. Install the DIG-729 PCI card according to the device card installation procedures supplied with the computer. Reattach the power cord to the computer and turn the computer on. When the system reboots, a message should appear that indicates a new device has been found, as shown in Figure 5-1.

Figure 5-1 Found New Hardware Wizard



When the screen shown in Figure 5-1 appears, select the "Install the software automatically (Recommended)" option, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

Figure 5-2 Completing the Found New Hardware Wizard



When the screen shown in Figure 5-2 displays, click the "Finish" button. The driver should now be installed and ready to use.

CHAPTER 6

DIG-729 / ANL-729 USB Driver Installation - Windows 98

After the AC power adaptor and the USB cable have been connected to the DIG-729 USB device, or after the USB cable has been connected to the ANL-729 device and it has been turned on, the following screen should appear.

Figure 6-1 Add New Hardware Wizard



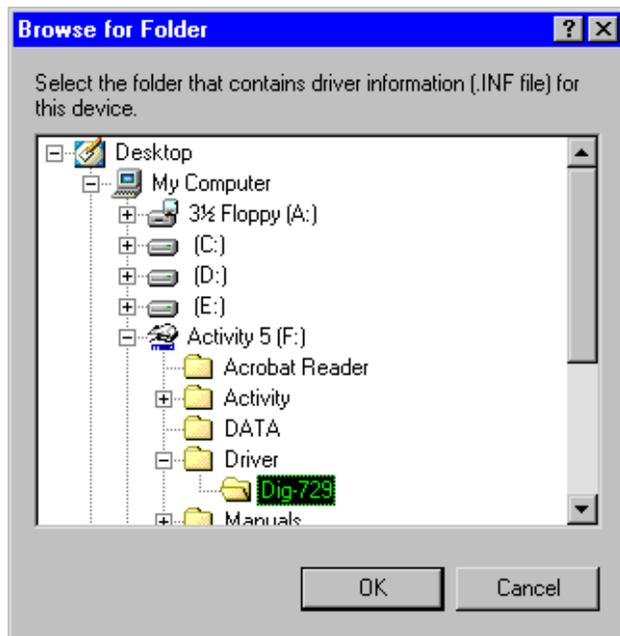
When the screen shown in Figure 6-1 displays, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

Figure 6-2 Search for the Best Driver

When the screen shown in Figure 6-2 displays, select the “Search for the best driver for your device. (Recommended)” option and click the “Next” button.

Figure 6-3 Select Search Location

When the screen shown in Figure 6-3 displays, select the “Specify a location” option and click the “Browse” button.

Figure 6-4 Browse for Folder

When the screen shown in Figure 6-4 displays, go to the Driver\Dig-729 directory on the CD-ROM that was received from MED Associates and then click the "OK" button.

Figure 6-5 Location Specified

When the screen shown in Figure 6-5 displays, click the "Next" button.

Figure 6-6 Ready to Install Generic USB Driver



When the screen shown in Figure 6-6 displays, click the “Next” button.

Figure 6-7 Generic USB Driver Installed



When the screen shown in Figure 6-7 displays, click the “Finish” button.

Figure 6-8 MED Resource Manager



When the screen shown in Figure 6-8 displays, click the “Yes” button.

Figure 6-9 MED Resource Manager - Browse



When the screen shown in Figure 6-9 displays, click the “Browse...” button.

Figure 6-10 Add New Hardware - Open



When the screen shown in Figure 6-10 displays, locate the file DIG729.INF in the Driver\Dig-729 directory on the CD-ROM that was received from MED Associates and then click the "Open" button.

Figure 6-11 MED Resource Manager - OK



When the screen shown in Figure 6-11 displays, click the "OK" button.

Figure 6-12 MED Associates USB729 Interface Found



When the screen shown in Figure 6-12 displays, click the "Next" button.

Figure 6-13 Search for the Best Driver

When the screen shown in Figure 6-13 displays, select the “Search for the best driver for your device. (Recommended)” option and click the “Next” button.

Figure 6-14 Location Specified

When the screen shown in Figure 6-14 displays, the location of the driver should already be specified so click the “Next” button.

Figure 6-15 Ready to Install USB729 Driver



When the screen shown in Figure 6-15 displays, click the "Next" button.

Figure 6-16 Completing the Add New Hardware Wizard



When the screen shown in Figure 6-16 displays, click the "Finish" button. The driver should now be installed and ready to use.

CHAPTER 7

DIG-729 / ANL-729 USB Driver Installation - Windows 2000

After the AC power adaptor and the USB cable have been connected to the DIG-729 USB device, or after the USB cable has been connected to the ANL-729 device and it has been turned on, the following screen should appear.

Figure 7-1 Add New Hardware Wizard



When the screen shown in Figure 7-1 displays, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

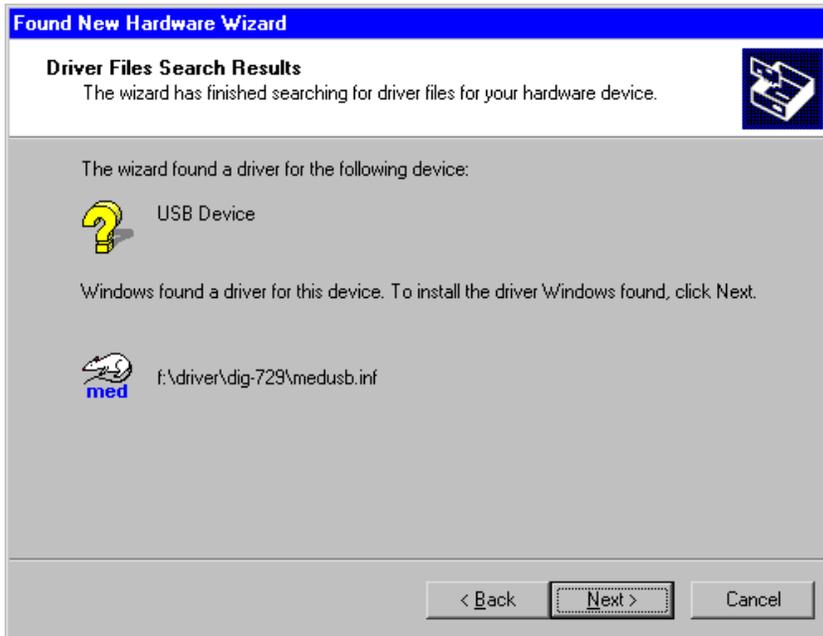
Figure 7-2 Search for the Best Driver

When the screen shown in Figure 7-2 displays, select the “Search for a suitable driver for my device (recommended)” option and click the “Next” button.

Figure 7-3 Select Search Location

When the screen shown in Figure 7-3 displays, select the “CD-ROM drives” option and click the “Next” button.

Figure 7-4 Ready to Install Generic USB Driver



When the screen shown in Figure 7-4 displays, click the "Next" button.

Figure 7-5 Generic USB Driver Installed



When the screen shown in Figure 7-5 displays, click the "Finish" button.

Figure 7-6 MED Resource Manager



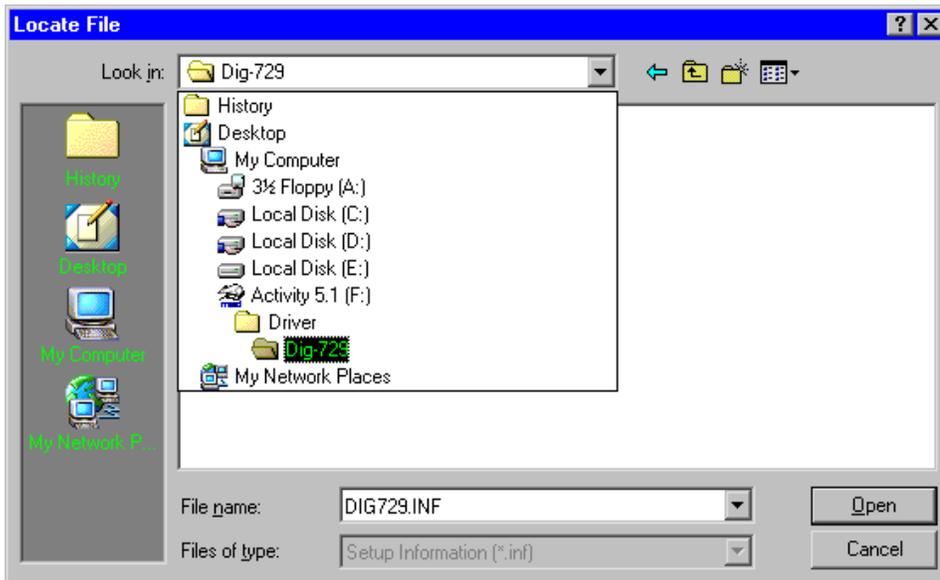
When the screen shown in Figure 7-6 displays, click the “Yes” button.

Figure 7-7 MED Resource Manager - Browse



When the screen shown in Figure 7-7 displays, click the “Browse...” button.

Figure 7-8 Add New Hardware - Open



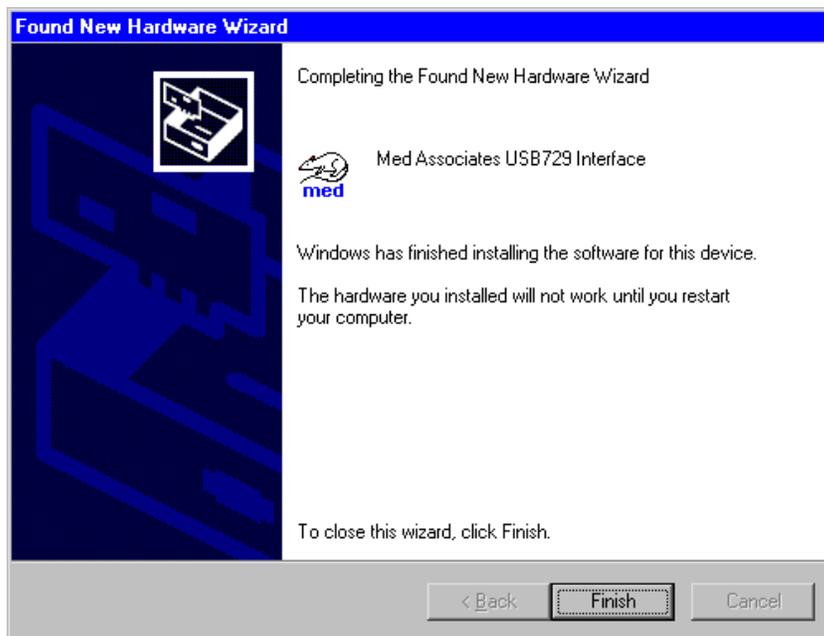
When the screen shown in Figure 7-8 displays, locate the file DIG729.INF in the Driver\Dig-729 directory on the CD-ROM that was received from MED Associates and then click the "Open" button.

Figure 7-9 MED Resource Manager - OK



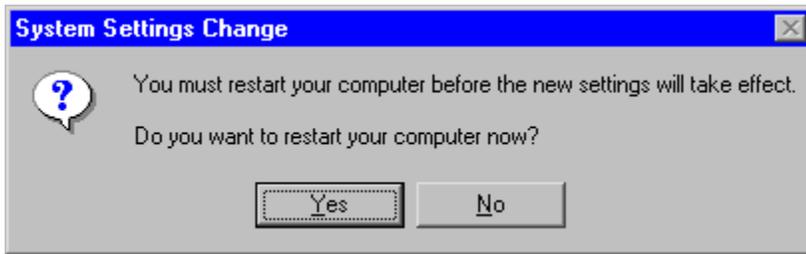
When the screen shown in Figure 7-9 displays, click the "OK" button.

Figure 7-10 Completing the Found New Hardware Wizard



When the screen shown in Figure 7-10 displays, click the "Finish" button.

Figure 7-11 Restart Your Computer



When the screen shown in Figure 11 displays, click the "Yes" button to restart the computer. The DIG-729 / ANL-729 USB driver should now be installed.

CHAPTER 8

DIG-729 / ANL-729 USB Driver Installation - Windows XP

After either connecting the AC power adaptor and the USB cable to the DIG-729 USB device, or the USB cable to the ANL-729 device and turning the device on, the following screen should appear.

Figure 8-1 Found New Hardware Wizard



When the screen shown in Figure 8-1 appears, select the "Install the software automatically (Recommended)" option, insert the CD-ROM that was received from MED Associates into the CD drive, and click the "Next" button.

Figure 8-2 Generic USB Driver Installed

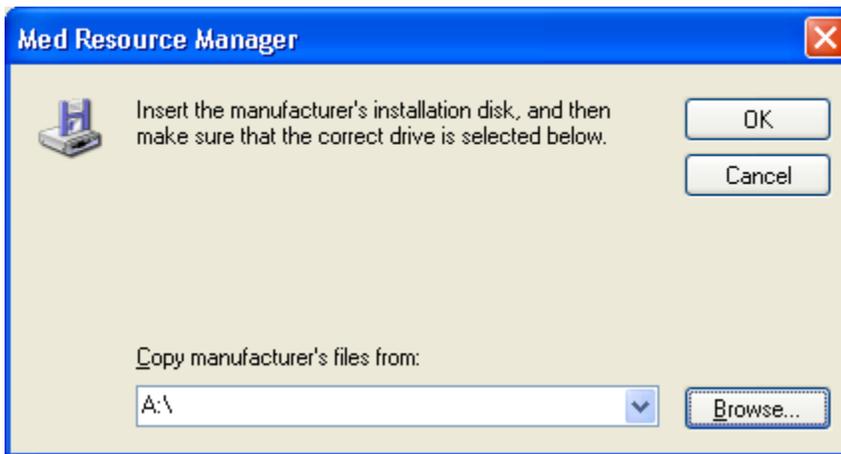


When the screen shown in Figure 8-2 displays, click the "Finish" button.

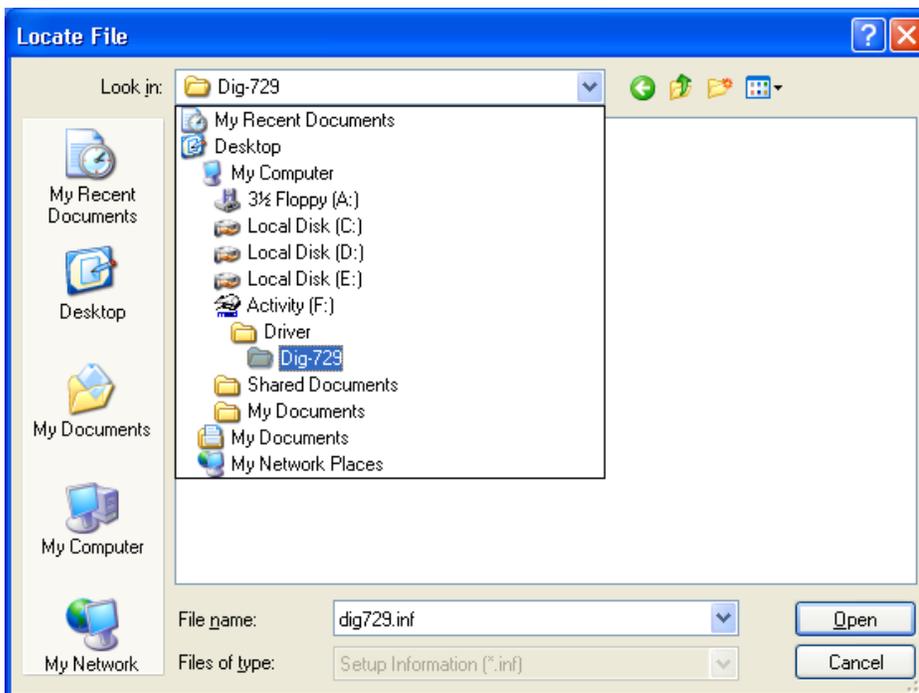
Figure 8-3 MED Resource Manager



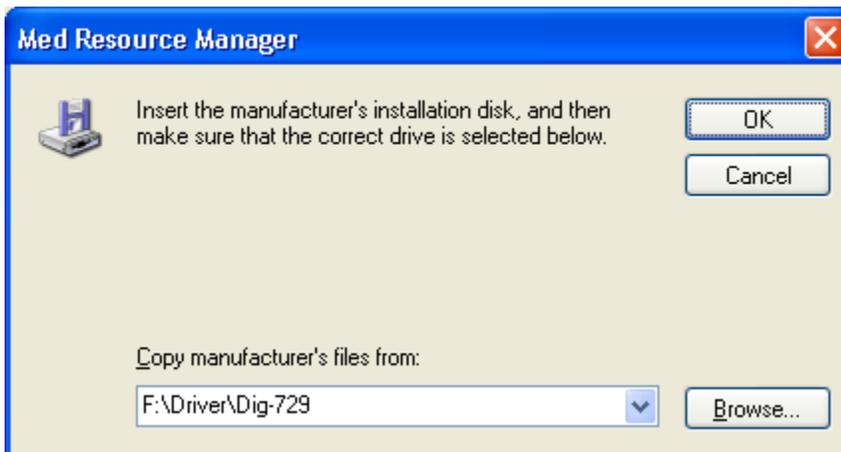
When the screen shown in Figure 8-3 displays, click the "Yes" button.

Figure 8-4 MED Resource Manager - Browse

When the screen shown in Figure 8-4 displays, click the “Browse...” button.

Figure 8-5 Add New Hardware - Open

When the screen shown in Figure 8-5 displays, locate the file DIG729.INF in the Driver\Dig-729 directory on the CD-ROM that was received from MED Associates and then click the “Open” button.

Figure 8-6 MED Resource Manager - OK

When the screen shown in Figure 8-6 displays, click the "OK" button.

Figure 8-7 MED Associates USB729 Interface Found

When the screen shown in Figure 8-7 displays, select the "Install the software automatically (Recommended)" option and click the "Next" button.

Figure 8-8 Completing the Found New Hardware Wizard



When the screen shown in Figure 8-8 displays, click the "Finish" button. The driver should now be installed and ready to use.