



AMP2-16V Series Monitors

Wohler Update Manager

(Software Version: V7.0x)

Part Number 820083, Revision D



VIDEO

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LOUDNESS

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This document is intended to be printed on a duplex printer, such that the copy appears on both sides of each page. This ensures that all new chapters start on a right-facing page.

This document looks best when printed on a color printer since some images may be indistinct when printed on a black and white printer.

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Last Update

August 19, 2013

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Wohler Update Manager

Introduction

Overview

The Wohler Update Manager is a Windows application that allows you to update the software in your AMP2-16V Series monitor. The Wohler Update Manager also allows you to:

- Set an AMP2-16V monitor's IP address for a LAN connection
- Save and copy presets from one AMP2-16V to another
- Access the AMP2-16V user guide and the accompanying readme file for the application

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Installing the Program

Important: If you have a previous version (earlier than 7.00) of the AMP2-16V update manager, please follow these instructions.

1. Copy any presets or logs that you wish to keep from the Wohler Update Manager Folder to your desktop or other convenient folder. This path is typical: **C:\Program Files (x86)\Wohler\Wohler Update Manager AMP2-16V\User**
2. Uninstall the old version of the Wohler Update manager using the Windows Control Panel.
3. Delete any unneeded files from this path: **C:\Program Files (x86)\Wohler\Wohler Update Manager AMP2-16V**
4. Install the new version of the update manager.
5. If you wish, you may move your presets and log files to the new user directory, located here: **C:\Wohler\AMP2-16V\User**

Important: You must use an extracted setup file. Running the installer from within the .zip file does not work.

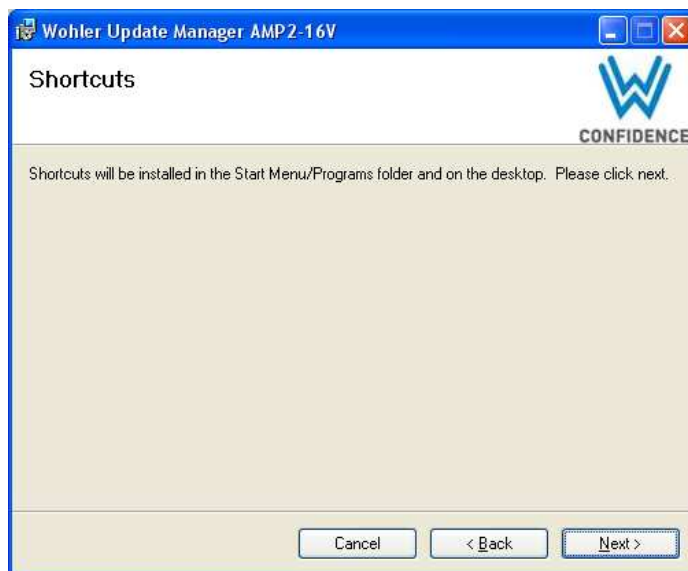
1. Depending upon the operating system of your computer, you will need to run the **Release\AMP2-16V Wohler Update Manager Setup Vxx.xx.exe** program in one of two ways:
 - A. For **Windows XP**, double-click the program.
 - B. For **Windows 7**, right-click on the program, and choose **Run as Administrator**.

Figure 1–1 Wohler Update Manager AMP2-16V Setup Wizard



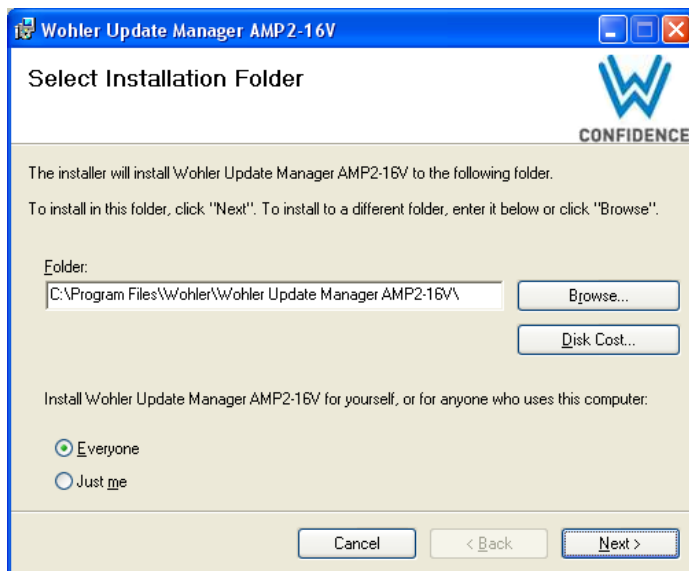
2. Click **Next**.

Figure 1–2 Wohler Update Manager Setup Wizard: Shortcuts



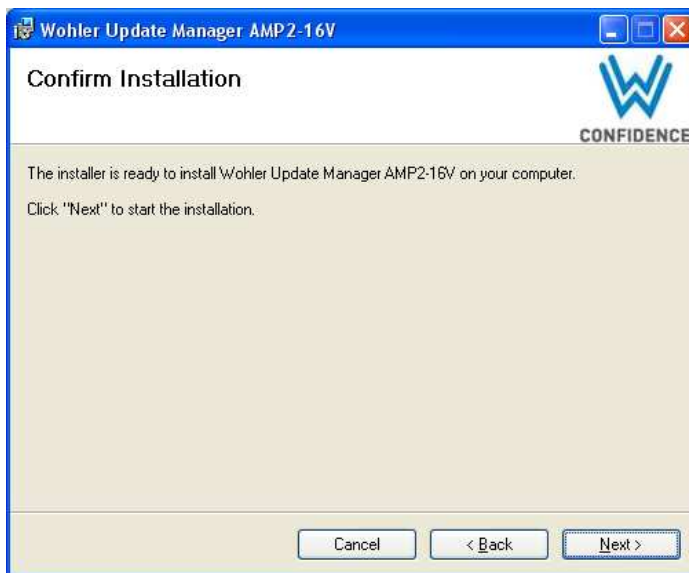
3. Click **Next**.

Figure 1–3 Wohler Update Manager Setup Wizard: Select Installation Folder



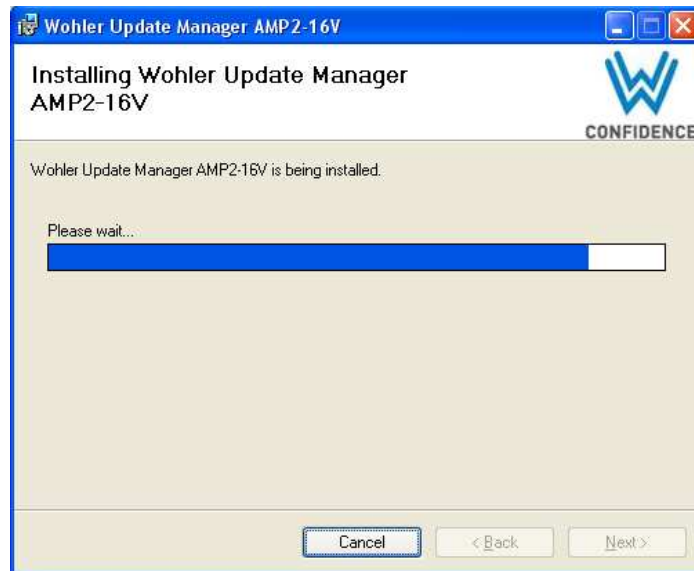
4. Click **Next**.

Figure 1–4 Wohler Update Manager Setup Wizard: Confirm Installation



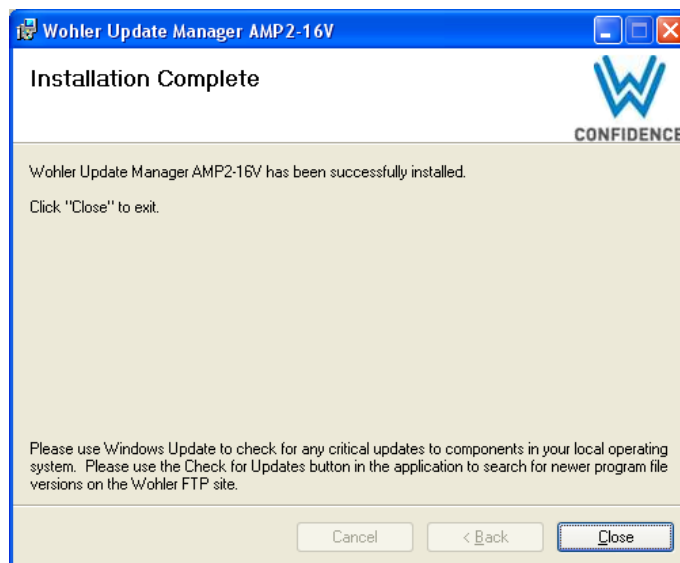
5. Click **Next**.

**Figure 1–5 Wohler Update Manager Setup Wizard:
Installing**



6. Wait while the installation completes (a couple of minutes).

**Figure 1–6 Wohler Update Manager Setup Wizard:
Installation Complete**



7. Click **Close**.

Launching the Program

1. Before running the Wohler Update Manager, close all the applications visible in the Windows task bar.
2. Double-click the Wohler Update Manager desktop icon to launch the application.

Figure 1–7 Wohler Update Manager Desktop Icon

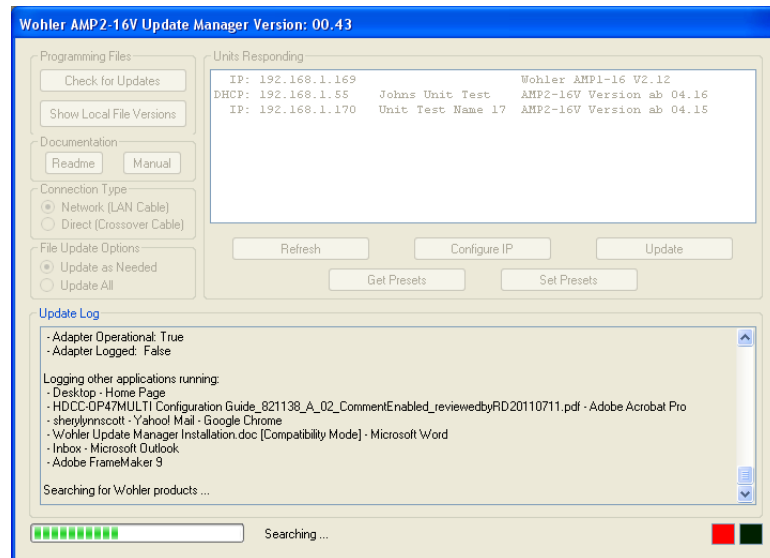


Figure 1–8 Verify Connections Dialog



3. Click **OK**.

Figure 1–9 Wohler Update Manager Application Window (Red Status Indicator)



Checking for Updates

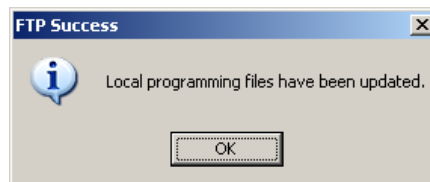
1. After the status indicator at the bottom right hand corner of the screen turns green, click **Check for Updates**. At this point, the system will respond with one of three dialogs:
 - A. **No New Updates:** In the event that no new updates are available, then the system will display the dialog shown in [Figure 1–10 on page 8](#).

Figure 1–10 No New Files Dialog



- B. **Wohler Update Manager Software Updates:** In the event the system discovers updates to the AMP2-16V firmware stored on your hard drive, the system will display the dialog shown in [Figure 1–11](#) below.

Figure 1–11 FTP Success Dialog



- C. **Application Update:** If you see the message in [Figure 1–12](#), it means there is a newer version of the **Wohler Update Manager** available. Please download it from the Wohler website (www.Wohler.com) and use it instead.

Figure 1–12 Application Update Available



2. In any case, click **OK**.

Note: At this point, you can either close the Wohler Update Manager if no updates are available or upgrade your software and/or units.

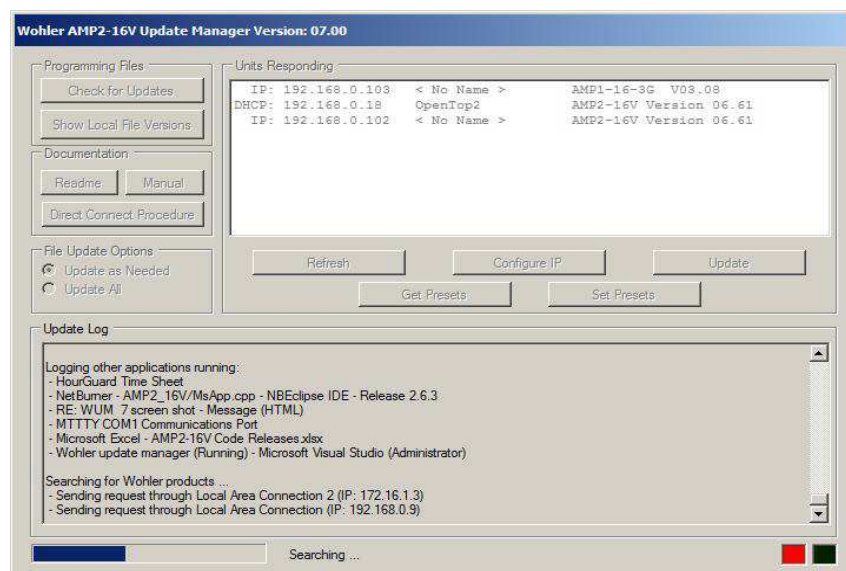
Connectivity

If have not already connected your AMP2-16V to your LAN, then refer to [Appendix A: Establishing Connectivity](#) on page 15. If you want to connect directly to your monitor, then [Appendix A](#) has instructions for that method, too.

Running the Wohler Update Manager

Status Indicators

Figure 1–13 Wohler Update Manager Application Window (Red Status Indicator)



Note that while the system is working, the left status indicator at the bottom right hand corner is red. This indicates that the system is working and you should not attempt to interrupt the process. When the scanning completes, the system will display the available AMP2-16Vs on the network in the **Units Responding** area and the right status indicator will turn green to indicate that you can now begin using the application.

Optional Functions

In the **Documentation** area of the application window, you can click to view the **Readme** file for this application and the AMP2-16V user guide (**Manual**).

You can also click **Show Local File Versions** to display the versions of the programming files on your hard drive.

Updating the Software

Setting Your Update Options

In the **File Update Options** area, click **Update as Needed** to only update those components whose code version is older than the most recently released one.

Note: There are only three cases in which you should select **Update All**:

- You suspect that some piece of firmware in your unit is corrupt.
- You suspect some piece of firmware on your hard drive is corrupt.
- You have been directed to do so by Wohler Technical Support.

Note: This setting affects both the **Check For Updates** and the **Update** functions.

Backing Up the Current Presets

Note that the Wohler Update Manager will automatically convert all the presets from the current software version to the new version inside the unit, as part of the update. If you want a backup of your presets, you may use the procedure below to save them to your PC. Once the update is complete, you may also wish to copy the translated presets to your PC with the same procedure as well.

1. Click to select the AMP2-16V monitor whose presets you want to back up.
2. Click **Get Presets**.

WARNING! This next step will interrupt the operation of the AMP2-16V for a short time. Verify that the product isn't in use at this time.

3. Click **OK**.

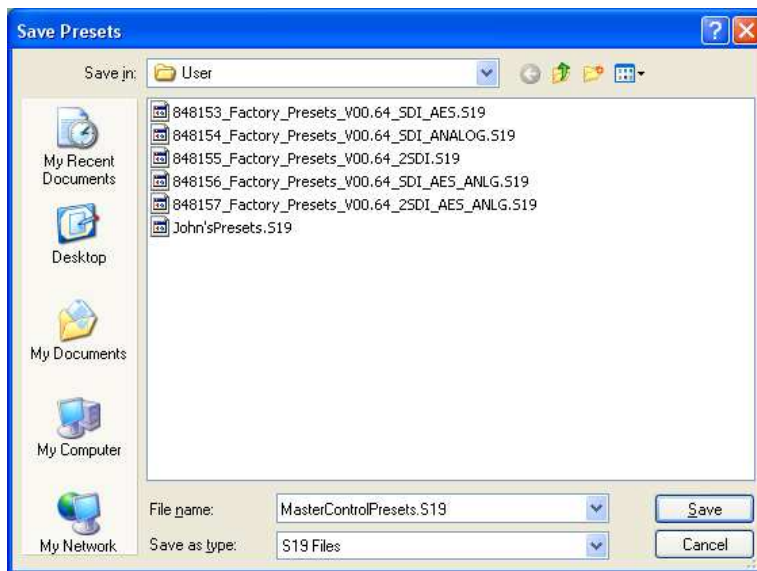
Figure 1–14 Reboot Warning Dialog



4. When the **Save Presets** dialog displays, give the preset file a new name (to distinguish it from other AMP2-16V monitors on your network) and click **Save**.

Important: Your filename must contain the word *Presets* and the extension must remain *S19*. Both components of the filename are case-sensitive.

Figure 1–15 Save Presets Dialog



Note: The progress is indicated on the front panel of the AMP2-16V and may take a couple of minutes.

When the system is done copying the presets, the system will display the **Preset Transfer Success** dialog.

Figure 1–16 Preset Transfer Success Dialog

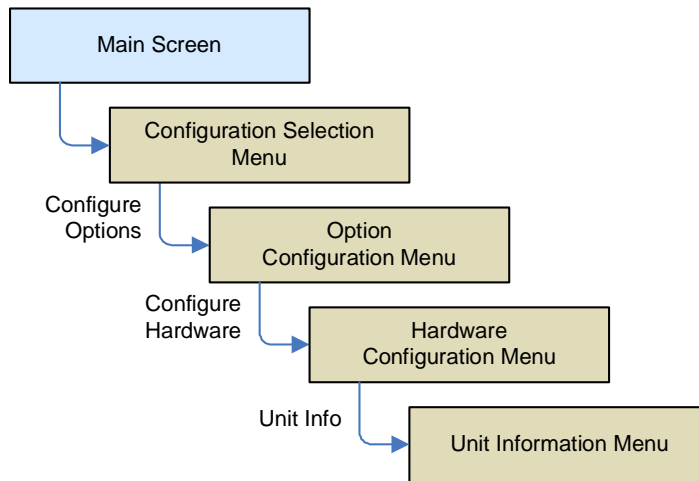


5. Click **OK**.

When the dialog closes and the green status indicator displays, the application is once again ready for your next command.

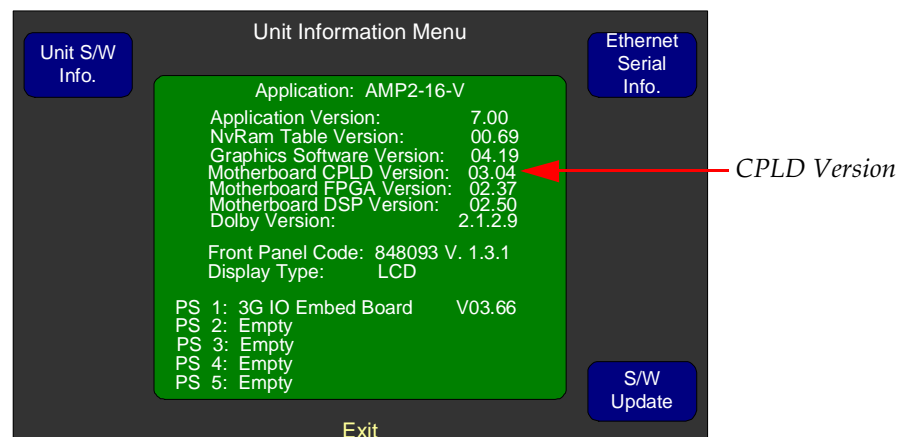
Updating the Software

1. On the AMP2-16V, go to the **Unit Information Menu**.



2. Make sure your unit has a CPLD version that is at least Version 3.03 or later.

Figure 1-17 Unit Information Menu



WARNING!

If the unit fails to give you a CPLD version number, contact Wohler Technical Support. (See Wohler's contact information on page ii.) Your unit needs some hardware upgrades before this latest software will run correctly.

3. In the **Units Responding** area of the Wohler Update Manager, click the monitor you want to update.
4. Click the **Update** button. The box at the bottom right of the screen will turn red to indicate that the program is working. The progress

bar and **Update Log** section will show what the Wohler Update manager is doing to update your unit.

Note: Periodically the program may appear to stall. Please wait at least three minutes before attempting to do anything to “revive” the application. Some updates require the full attention of your PC’s processor, during which the screen may not be refreshed.

5. When the update is finished, you will get a dialog box indicating whether updates were performed. Click **OK**.

The status indicator at the lower right hand corner of the screen will turn green, and you can either close the application or proceed with your next operation.

APPENDIX A

Establishing Connectivity

Introduction

Overview

This appendix describes the procedures for connecting your PC/laptop directly to your AMP2-16V Series monitor and for connecting your monitor to a local area network (LAN).

Topics

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Requirements

Requirements for Direct Access

If you want to connect to your AMP2-16V Series monitor directly to your PC/laptop, you will need both of the following:

- A PC/laptop with an Ethernet port running Windows XP or Windows 7
- A crossover cable

Requirements for Network Access

If you want to put your AMP2-16V onto your IP network, you will need all of the following:

- A PC/laptop with an Ethernet port running Windows XP or Windows 7
- An IP address from your network administrator (not required if your network uses DHCP)
- An IP mask from your network administrator (not required if your network uses DHCP)
- Two network cables

Adding Your AMP2-16V to Your Network

Note: If your network is using a DHCP connection scheme, then you will not need this procedure for new monitors, since DHCP connectivity is the factory default.

1. Connect a network cable from the Ethernet port of your PC to the network

Appendix A Establishing Connectivity

Adding Your AMP2-16V to Your Network

2. Connect an Ethernet cable from the Ethernet port of the AMP2-16V (labeled **CMD NET**) to the network.
3. Once you can see the name of your AMP2-16V in the **Units Responding** area, click it so that it is highlighted (selected).
4. Click **Configure IP** button.

Figure A-18 Unit IP Setup Dialog

The image shows a 'Unit IP Setup' dialog box with a blue title bar. Inside, there are four fields: 'Use DHCP' with a checked checkbox, 'Unit IP Address' with a green input field containing '0.0.0.0', 'Unit IP Mask' with a green input field containing '0.0.0.0', and 'Unit Name' with a green input field containing 'Master Control'. At the bottom are 'Set' and 'Cancel' buttons.

5. When the **Unit IP Setup** dialog displays, do the following:
 - A. Click the **Use DHCP** check box (if needed) to select DHCP.

Important: If your network uses DHCP, then skip Steps B and C and continue on to Step D below.

- B. Enter the **Unit IP Address**.
- C. Enter the **Unit IP Mask**.
- D. Give this AMP2-16V a unique **Unit Name** to denote its position or use within your facility so that it can be recognized later. This field will accept up to 17 characters.

Note: If any of the fields in the **Unit IP Setup** dialog are improperly filled out, they will turn red. After you correct the input, they will turn green again.

6. On the outside chance that the AMP2-16V does not automatically show up in the **Units Responding** area, click the **Refresh** button. Also, ensure the AMP2-16V and the computer are on the same subnet. UDP does not cross subnet boundaries.

Important: You must see your AMP2-16V listed in the **Units Responding** area of the Wohler Update Manager. If not, double-check your connections. If the monitor still does not display, call Wohler's technical assistance. (See Wohler's contact info on page ii.)

7. Verify that you can see the AMP2-16V with the IP address you just assigned it.

Connecting Directly to the AMP2-16V

This set of instructions describes how to connect a Windows PC directly to an AMP2-16V. Direct connections are not as easy to accomplish as network connections. Therefore, these instructions should only be used if the AMP2-16V does not have access to a LAN (Local Area Network) with a DHCP server (Dynamic Host Control Protocol – supplies IP information to devices on the LAN automatically), or if a portable router with such a server in it is not available.

For all direct connections, you will need a crossover cable rather than a standard “patch” cable. A crossover cable has two wire pairs reversed between one end and the other. They typically have a label that says “Crossover,” since they are otherwise difficult to distinguish from standard patch cables.

These instructions assume your AMP2-16V is not currently connected to a network, and will not be connected to a network when you are finished with it. If this assumption is faulty, please go to the **Unit Information Menu**, and select **Ethernet Serial Info**, and then select **Ethernet Setup**. If the AMP2-16V has anything other than zeros in any of the fields, please write down the information here:

IP Address	
IP Mask	
Gateway	
DNS	

Using AutoIP

If your AMP2-16V has Version 7.00 or later installed, it has AutoIP capability. Windows XP and Windows 7 computers also have this capability, which allows the computer and the unit to auto-negotiate their IP information, and begin communicating over the crossover cable. If your unit does not have Application Version 7.00 or later, please skip to [Setting a Static IP in the AMP2-16V on page 21](#).

1. If the computer is running, shut it down.
2. If you wrote down a static IP in the section above, you need to set the AMP2-16V for DHCP (using the **Set for DHCP** button in the **Ethernet Setup Screen**) and allow the AMP2-16V to restart.
3. Once the AMP2-16V has restarted, please remove the power cord once again.
4. Connect the crossover Ethernet cable directly between the computer's Ethernet port and the AMP2-16V's Ethernet port. The Ethernet jack is labeled as "CMD NET" on the back of the AMP2-16V.
5. Apply power to the AMP2-16V, and let it fully boot.
6. Apply power to the PC and allow it to fully boot.
7. Your computer should have a network icon in the system tray that indicates the state of the network connection. These icons mean the computer is trying to establish a connection.

- Windows XP:



- Windows 7:



8. You must wait until the connection is established. This happens when the icon changes to one of these two:

- Windows XP:



- Windows 7:



9. The exclamation point on the icon simply signifies that the computer is not connected to the internet, which should be true if this adapter is connected directly to the unit.

10. Run the **Wohler Update Manager**.

11. You should see the AMP2-16V appear with a 169.254.xxx.xxx address. The last two octets are randomly generated, and mutually agreed upon by the PC and the unit. If the unit appears in the **Units Responding** window, your connection is successful.
12. Once you have a connection to the AMP2-16V, you may begin any software updates or preset transfers.

Decision Point:

When you have completed the software updates or preset transfers you wanted, and you are finished, **be sure to restore any settings that were changed**. After you do that, you are finished with this procedure and with this document.

If you get a failed or timeout error message, you will need to use one of the other methods that follow in the next steps. Some computers simply cannot negotiate the AutoIP protocol in a timely manner.

13. If you need to update multiple AMP2-16V units by unplugging and replugging the crossover cable, be sure to either restart the computer when changing between AMP2-16V units, or reset the network interface in the computer between changes.
14. If you cannot get a connection to the AMP2-16V, close the **Wohler Update Manager** and wait a few minutes. Open it again, and try the **Refresh** button.
15. If you still do not see the AMP2-16V, check your system's network control panel. Disable any network adapters that you are not using, such as wireless adapters or other wired adapters. Restart the computer, and try again. Be sure to re-enable those adapters when you are finished. An adapter that has a connection to the internet will take precedence over one that does not (such as the direct connection between the unit and your computer).
16. If you still do not see the AMP2-16V, ensure that the network adapter in the computer you are using is set for DHCP. If it is set with a static IP, please write it down in the space on the first page, set it to DHCP, restart the computer, and try again. A static IP setting will prevent the computer from trying to use AutoIP, and likely will be a setting that will not allow the computer to communicate with the AMP2-16V.
17. If you still do not see the AMP2-16V, please try the instructions starting with [Setting a Static IP in the AMP2-16V on page 21](#).

Setting a Static IP in the AMP2-16V

1. If you have not already done so, follow the instructions in the 3rd paragraph of [Connecting Directly to the AMP2-16V on page 18](#) to take note of the current IP settings in the AMP2-16V.
2. While in the **Ethernet Setup Menu**, please enter the following information into the designated fields:

IP Address	169.254.001.001
IP Mask	255.255.0.0
Gateway	0.0.0.0
DNS	0.0.0.0

3. Press **Save/Exit** and allow the AMP2-16V to restart.
4. If you are using Windows XP, skip to [Setting a Static IP in a Windows XP Computer on page 22](#). If you are using Windows 7, skip to [Setting a Static IP in a Windows 7 Computer on page 27](#). If you are using any other operating system, find a Windows 7 or Windows XP computer instead.
5. When finished, please be sure to restore the AMP2-16V's IP settings to their original state.

Setting a Static IP in a Windows XP Computer

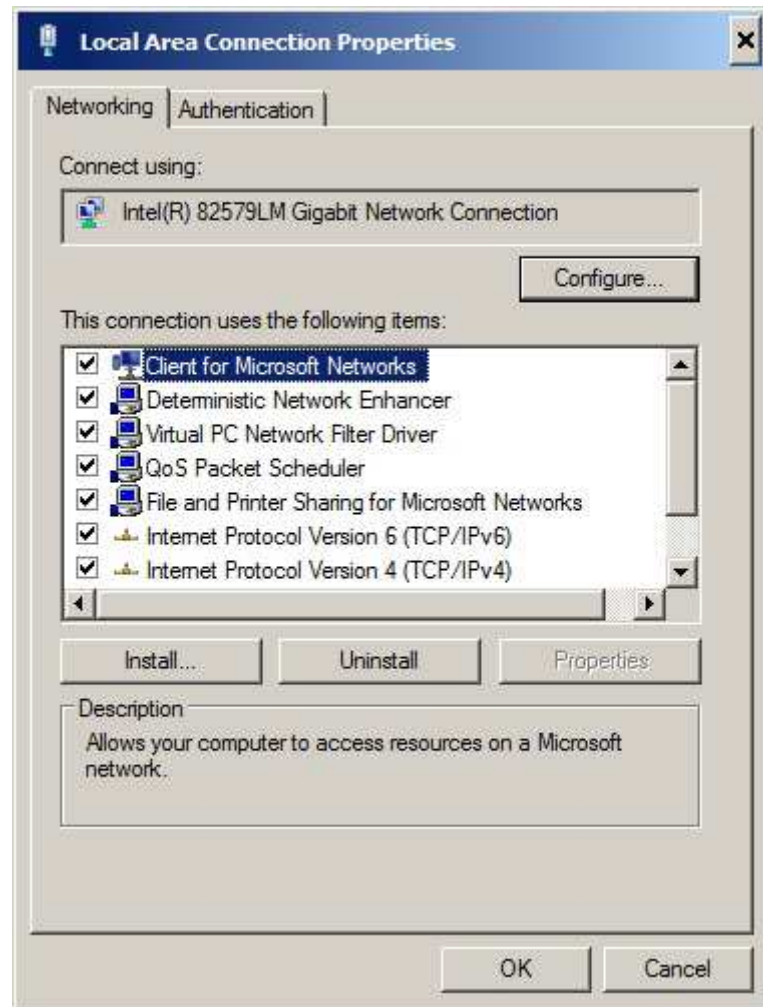
1. Open the **Start** menu and choose the **Control Panel**.
2. Choose the **Network and Sharing Center**.
3. In the upper-left corner, click on the text “Change adapter settings”
4. You should see a window similar to the one in [Figure A-1](#):

Figure A-1 Windows XP Network Connections.



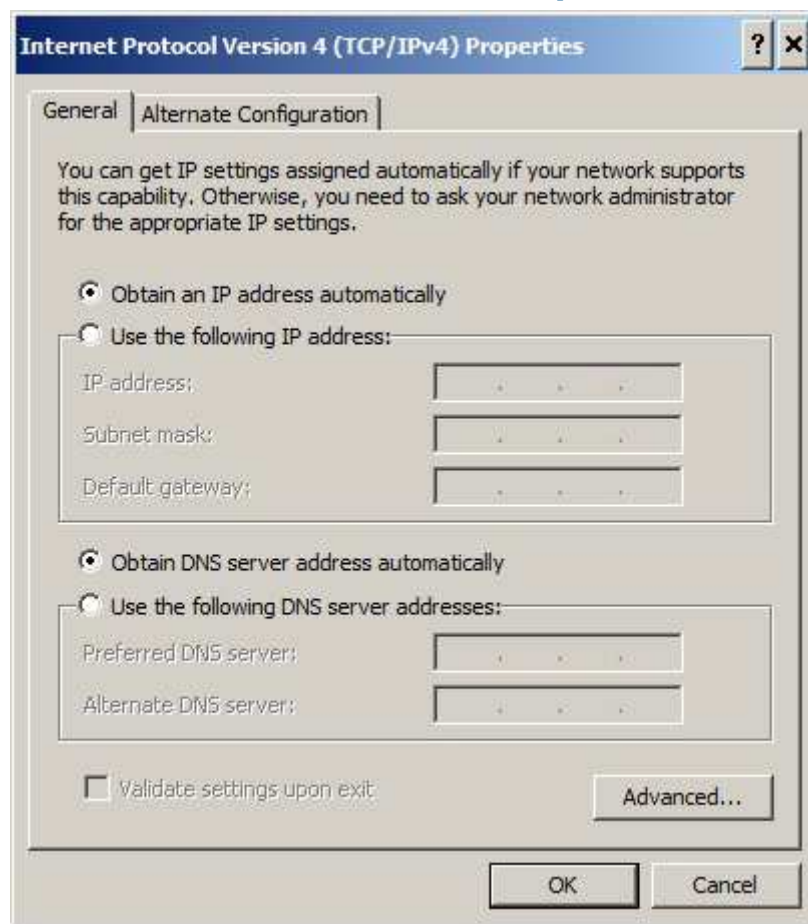
5. Disable all network adapters except the one that you are using. To do this, right click on the adapter’s icon, and choose “Disable.”
6. Right click on the adapter that you are using (It should say “Local Area Connection” as highlighted in the image above) and choose “Properties.” A window similar to the one in [Figure A-2 on page 23](#) will open.

Figure A-2 Windows XP Local Area Connection Properties



7. Right-click on the “Internet Protocol Version 4” text, and choose “Properties.” A dialog like the one in [Figure A-3 on page 24](#) will open.

Figure A-3 Windows XP IP Properties

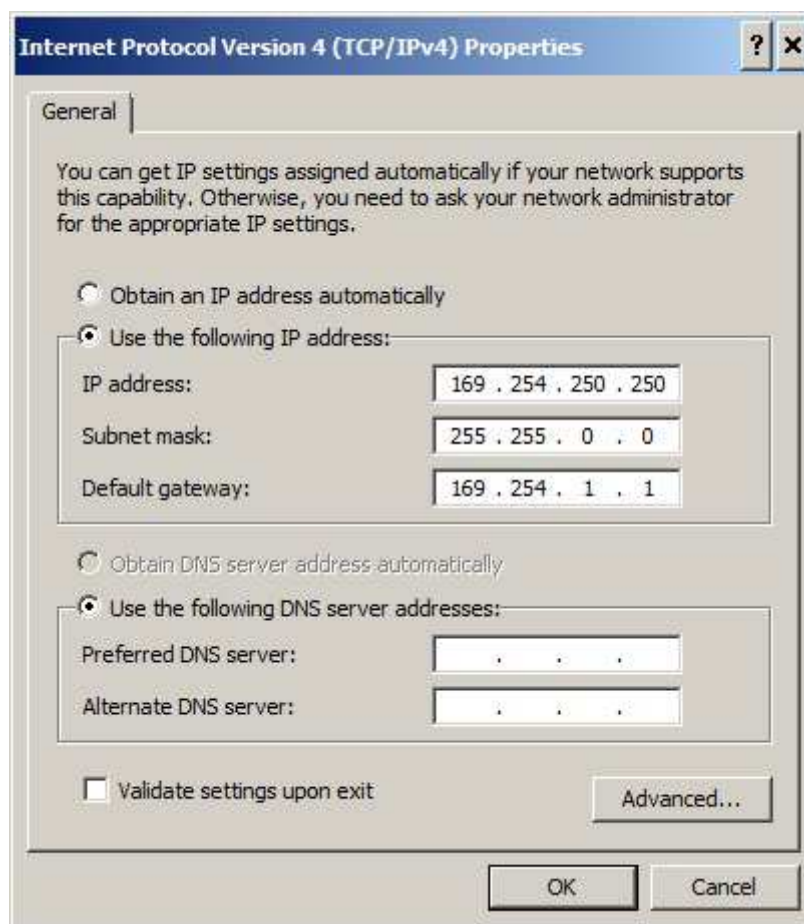


8. If there is any information in the fields above, write it here so the settings can be restored later:

IP Address	
Subnet Mask	
Default Gateway	
Preferred DNS Server	
Alternate DNS Server	

9. Set the window as shown in [Figure A-4 on page 25](#).

Figure A-4 Set Windows XP IP Properties



10. Press **OK** and close all other windows.
11. Shut down the computer.
12. Unplug the power to the AMP2-16V.
13. Connect the crossover cable between the computer's Ethernet port and the unit's Ethernet port (labeled as CMD NET on the back of the AMP2-16V).
14. Apply power to the AMP2-16V and allow it to fully boot.
15. Start up the computer and allow it to fully boot.

Appendix A Establishing Connectivity

Setting a Static IP in a Windows XP Computer

16. Your computer should have a network icon in the system tray that indicates the state of the network connection. This icon means the computer is trying to establish a connection:



17. You must **wait** until the connection is established. This happens when the icon changes to this one:

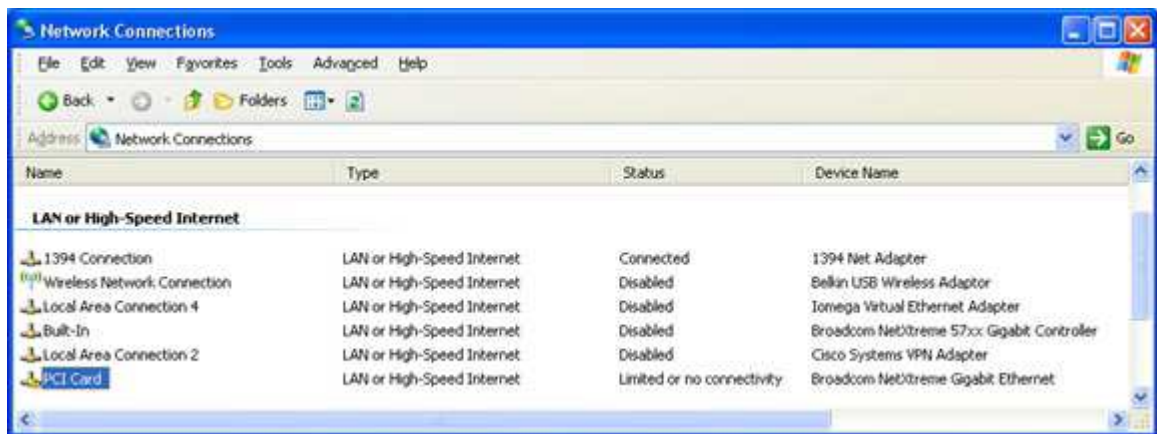


18. The exclamation point on the icon is OK. This simply signifies that the computer is not connected to the internet, which should be true if this adapter is connected directly to the AMP2-16V.
19. Open the **Windows Update Manager**.
20. You should see your unit listed in the **Units Responding** window.
21. If not, close the **Wohler Update Manager**, wait a few minutes, and try again. Your computer's network interface may take a bit of time to negotiate with the AMP2-16V.
22. When you are finished updating the AMP2-16V, return both the computer's and the AMP2-16V's IP setup to the original settings you made note of earlier.

Setting a Static IP in a Windows 7 Computer

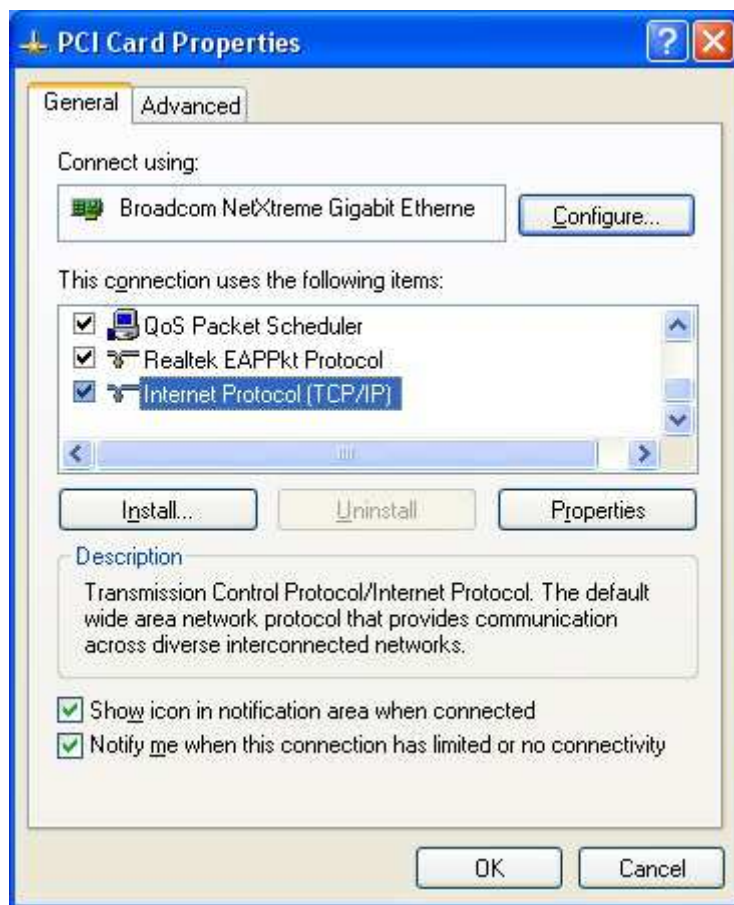
1. Open the **Start** menu and choose the **Control Panel**.
2. Choose the **Network and Sharing Center**.
3. You should find a sub-heading titled, “LAN or High-Speed Internet.” The window will look similar to [Figure A-5](#).

Figure A-5 Windows 7 Network Connections.



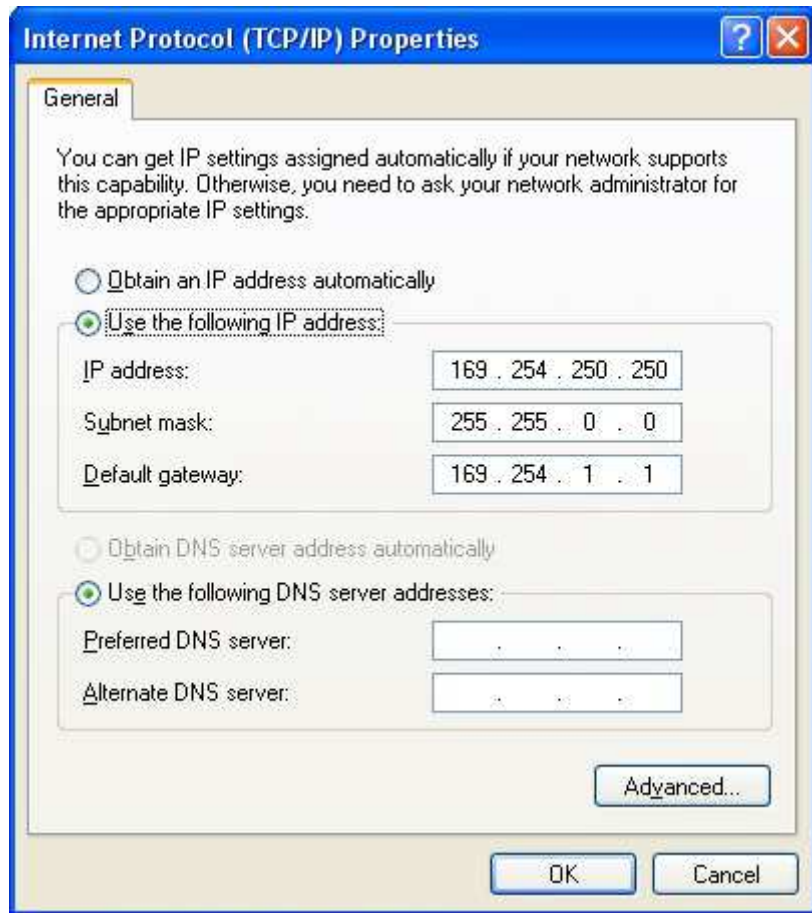
4. Disable all network adapters except the one that you are using. To do this, right click on the adapter's icon, and choose “Disable.”
5. Right click on the adapter that you are using (such as the one highlighted in [Figure A-5](#) above) and choose “Properties.” A window similar to the one in [Figure A-6 on page 28](#) will open.

Figure A-6 Windows 7 PCI Card Properties



6. Click on "Internet Protocol (TCP/IP)".
7. Click on the **Properties** button. Another dialog will open like the one shown in [Figure A-7 on page 29](#).

Figure A–7 Windows 7 Internet Protocol Properties



8. If there is any information in the fields above, write it here so you can restore the settings later:

IP Address	
Subnet Mask	
Default Gateway	
Preferred DNS Server	
Alternate DNS Server	

9. Set the window with the settings shown in [Figure A–7](#) above.
10. Press **OK** and close all other windows.
11. Shut down the computer.
12. Unplug the power to the AMP2-16V.

Appendix A Establishing Connectivity

Setting a Static IP in a Windows 7 Computer

13. Connect the crossover cable between the computer's Ethernet port and the unit's Ethernet port (labeled as CMD NET on the back of the AMP2-16V).
14. Apply power to the AMP2-16V and allow it to fully boot.
15. Start up the computer and allow it to fully boot.
16. Your computer should have a network icon in the system tray that indicates the state of the network connection. This icon means the computer is trying to establish a connection:



17. You must wait until the connection is established. This happens when the icon changes to this one:



18. The exclamation point on the icon is OK. This simply signifies that the computer is not connected to the internet, which should be true if this adapter is connected directly to the unit.
19. Open the **Wohler Update Manager**.
20. You should see your unit listed in the **Units Responding** window.
21. If not, close the **Wohler Update Manager**, wait a few minutes, and try again. Your computer's network interface may take a bit of time to negotiate with the AMP2-16V.
22. When you are finished updating the AMP2-16V, return both the computer's and the AMP2-16V's IP setup to the original settings you noted earlier.

APPENDIX B

Copying Presets from One Monitor to Another

Introduction

Overview

This appendix describes the procedures for copying the presets of one AMP2-16V monitor to another AMP2-16V monitor.

Topics

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Backing Up the Current Presets

After upgrading the source monitor to the current software version, copy the presets to the laptop or PC with the following instructions.

1. Click to select the AMP2-16V monitor whose presets you want to save to the laptop/PC.
2. Click **Get Presets**.
3. When the **Reboot Warning** dialog displays (Figure B-8) you can optionally click the check box to prevent the dialog from re-displaying.

WARNING! This next step will interrupt the operation of the AMP2-16V for a short time. Verify that the product isn't in use at this time.

4. Click **OK**.

Figure B-8 Reboot Warning Dialog

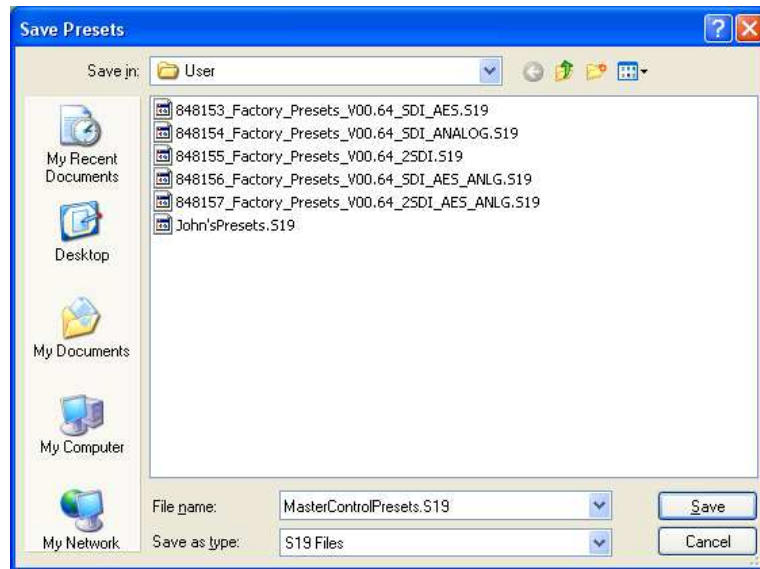


Appendix B Copying Presets from One Monitor to Another Backing Up the Current Presets

5. When the **Save Presets** dialog displays, give the preset file a new name (to distinguish it from other AMP2-16V monitors on your network) and click **Save**.

Important: Your filename must contain the word *Presets* and the extension must remain *S19*. Both components of the filename are case-sensitive.

Figure B–9 Save Presets Dialog



Note: The progress is indicated on the front panel of the AMP2-16V and may take a couple of minutes.

When the system is done copying the presets, the system will display the **Preset Transfer Success** dialog.

Figure B–10 Preset Transfer Success Dialog



6. Click **OK**.

When the dialog closes and the green status indicator displays, the application is once again ready for your next command.

Copying Presets to Another Monitor

1. In the **Units Responding** area, click to select the AMP2-16V monitor that you want to copy presets to, that is the target monitor.
2. Click **Set Presets**.
3. When the **Reboot Warning** dialog displays (Figure B-11) you can optionally click the check box to prevent the dialog from re-displaying.

WARNING! This next step will interrupt the operation of the AMP2-16V for a short time. Verify that the product isn't in use at this time.

4. Click **OK**.

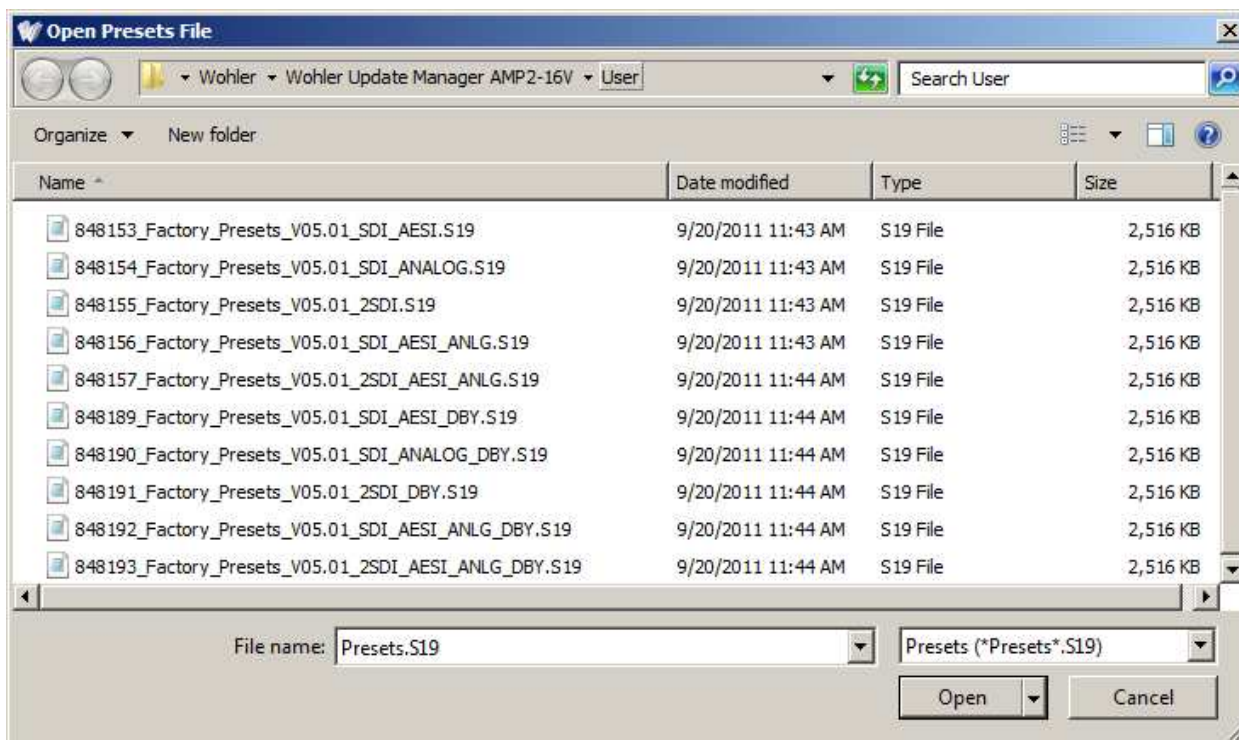
Figure B-11 Reboot Warning Dialog



5. When the **Open Presets** dialog displays, select the preset file you want to load and click **Open**.

Important: Your filename must contain the word *Presets* and the extension must remain *S19*. Both components of the filename are case-sensitive.

Figure B-12 Open Presets File Dialog



Note: The progress is indicated on the front panel of the AMP2-16V and may take a couple of minutes.

This procedure could be used to restore the unit to its original factory condition by selecting the appropriate factory presets file.

When the system is done copying the presets, the system will display the **Preset Transfer Success** dialog.

Figure B-13 Preset Transfer Success Dialog



6. Click **OK**.

When the dialog closes and the green status indicator displays, the application is once again ready for your next command.

APPENDIX C

Glossary

Crossover Ethernet Cable — A special Ethernet cable where two pairs of wires are reversed between the ends of the cable. Such cables are usually have a special tag which has “Crossover Cable” written on it, since they are very hard to distinguish from their standard counterparts simply by looking at them.

DHCP (Dynamic Host Control Protocol) — This is the method by which a DHCP router assigns an IP address to a device.

Dynamic IP — An IP address and mask that is assigned by a DHCP router to a device. This address is usually assigned when the device first powers on and is connected to a network with a DHCP router. Note that the DHCP router can assign a different IP address and mask to the device each time it is restarted, though this generally does not happen unless devices are being added to and removed from the network.

Host Identifier — The remainder of the IP address that is not part of the network prefix (subnet). For example, if the IP address is 192.168.0.25, and the IP mask is 255.255.255.0, the host identifier is 0.0.0.25.

IP — Internet Protocol – The communications protocol used for Ethernet.

IP Address — Example – 192.168.0.5 – Every device on a LAN must have a unique IP address. Otherwise, the LAN may behave erratically. Large LANs have IP addresses that are assigned and maintained by a Network Administrator. Small LANs may use DHCP to allow the network to choose an appropriate address for each new device automatically.

IP Mask — Example – 255.255.255.0 – This is used in divide the IP Address into its two component parts – the Network Prefix (a.k.a. subnet) and the Host Identifier.

LAN — Local Area Network – A set of computers and devices connected together through Ethernet routers, hubs and switches.

Typically, a LAN serves a small area or a single building. This is the opposite of a WAN.

MAC Address — Each device on the internet has a unique MAC address. The Wohler Update Manager uses the MAC address to “find” the unit after it has been restarted, even if a DHCP server has given the unit a different IP address.

Network Adapter — A physical device inside your computer that either has a wired Ethernet jack connected to it, or an antenna for a wireless connection. A PC usually has one wired adapter, but may have more, or may not have any. A typical laptop has a wireless adapter (usually 802.11 b/g/n) and a wired adapter.

Standard Ethernet Cable — A typical Ethernet cable used to connect a device to an Ethernet router or hub. These cables typically do not have any special markings, and are wired “straight through,” such that the same pins on each end are connected together.

Static IP — An IP address and mask that is assigned by a person to a device. This IP address does not change, even if the device is not connected to a network.

TCP — Transmission Control Protocol. One of two core Ethernet protocols.

UDP — User Datagram Protocol. One of two core Ethernet protocols.

WAN (Wide Area Network) — A set of computers and devices connected through Ethernet that span different cities and possibly other countries.