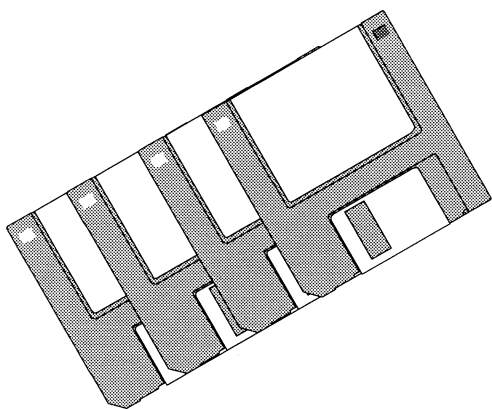
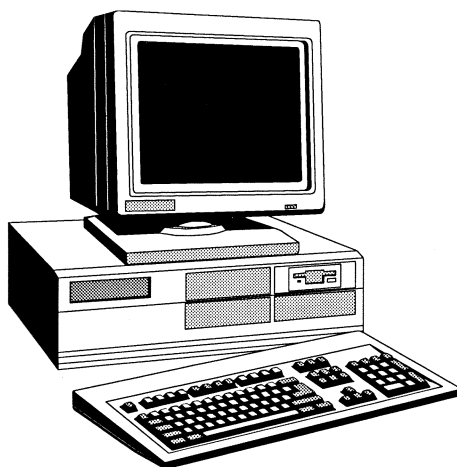


PK-9200W

Windows®-Based Off-Line Programming Utility Software Manual



For the MS-9200 Addressable Fire Alarm Control Panel



Fire-Lite® Alarms
Incorporated

12 Clintonville Road, Northford, CT 06472

DOCUMENT #50684
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P/N 50684-A

ECN 97-080

Installation Precautions

WARNING - Several different sources of power can be connected to the fire alarm control panel. Disconnect all sources of power before servicing. Control unit and associated equipment may be damaged by removing and/or inserting cards, modules, or interconnecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until this manual is read and understood.

CAUTION - *System Reacceptance Test after Software Changes:* To ensure proper system operation, this product must be tested in accordance with NFPA 72-1993 Chapter 7 after any programming operation or change in site-specific software. Reacceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring.

All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49° C and at a relative humidity of 85% RH (non-condensing) @ 30°C. However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a nominal room temperature of 60-80° F.

Verify that wire sizes are adequate for all initiating and indicating device loops. Most devices cannot tolerate more than a 10% I.R. drop from the specified device voltage.

Adherence to the following will aid in problem-free installation with long-term reliability:

Like all solid state electronic devices, this system may operate erratically or can be damaged when subjected to lightning induced transients. Although no system is completely immune from lightning transients and interferences, proper grounding will reduce susceptibility. *Overhead or outside aerial wiring is not recommended, due to an increased susceptibility to nearby lightning strikes.* Consult with the Technical Services Department if any problems are anticipated or encountered.

Disconnect AC power and batteries prior to removing or inserting circuit boards. Failure to do so can damage circuits.

Remove all electronic assemblies prior to any drilling, filing, reaming, or punching of the enclosure. When possible, make all cable entries from the sides or rear. Before making modifications, verify that they will not interfere with battery, transformer, and printed circuit board location.

Do not tighten screw terminals more than 9 in-lbs. Over tightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

This system contains static-sensitive components. Always ground yourself with a proper wrist strap before handling any circuits so that static charges are removed from the body. Use static suppressive packaging to protect electronic assemblies removed from the unit.

Follow the instructions in the installation, operating, and programming manuals. These instructions must be followed to avoid damage to the control panel and associated equipment. FACP operation and reliability depend upon proper installation.

Fire Alarm System Limitations

While installing a fire alarm system may make lower insurance rates possible, it is not a substitute for fire insurance!

An automatic fire alarm system - typically made up of smoke detectors, heat detectors, manual pull stations, audible warning devices, and a fire alarm control with remote notification capability can provide early warning of a developing fire. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire.

Any fire alarm system may fail for a variety of reasons:

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in walls, or roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second floor detector, for example, may not sense a first floor or basement fire. Furthermore, all types of smoke detectors - both ionization and photoelectric types, have sensing limitations. No type of smoke detector can sense every kind of fire caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches, or arson.

IMPORTANT! Smoke detectors must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not so located, a developing fire may damage the alarm system, crippling its ability to report a fire.

Audible warning devices such as bells may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building.

A fire alarm system will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time.

Rate-of-Rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection specialist.

Equipment used in the system may not be technically compatible with the control. It is essential to use only equipment listed for service with your control panel.

Telephone lines needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily disabled.

The most common cause of fire alarm malfunctions, however, is inadequate maintenance. All devices and system wiring should be tested and maintained by professional fire alarm installers following written procedures supplied with each device. System inspection and testing should be scheduled monthly or as required by National and/or local fire codes. Adequate written records of all inspections should be kept.

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CHAPTER 1

1.0 Product Description

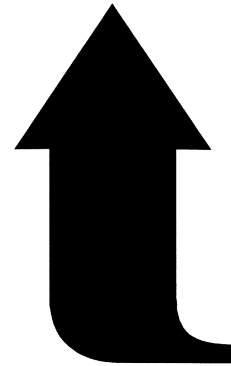
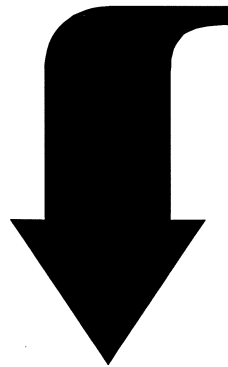
The PK-9200W Off Line Programming Utility is a versatile utility program which allows the panel to be programmed directly from most IBM AT or compatible computers, including laptops, equipped with a serial port. Program files can also be created and stored on the PC and then downloaded to the panel.

Use of the PK-9200W software requires MS-9200 control panel firmware version 73829 or later. In addition, a full understanding of the MS-9200 fire alarm control panel functionality is required prior to any upload or download activity. For information on the fire alarm control panel, refer to the MS-9200 Technical Manual P/N: 15668 (MS-9200E Technical Manual P/N:50428). Each time a new program is created or an existing program is modified and entered into an MS-9200 FACP (Fire Alarm Control Panel), the panel must be thoroughly tested.

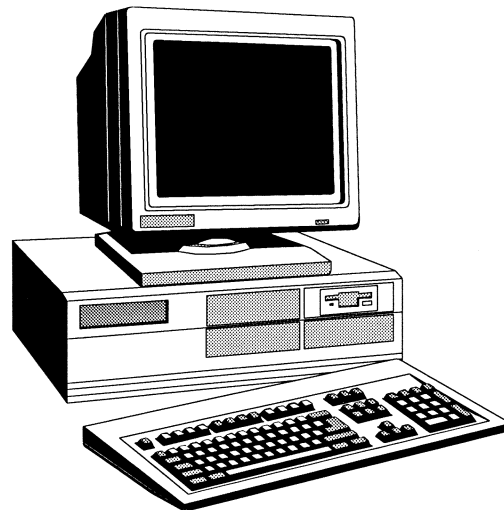
Note: Unless otherwise specified, the term MS-9200 shall be used in this manual to refer to all versions of the MS-9200, MS-9200C and the MS-9200E control panels.



UPLOAD

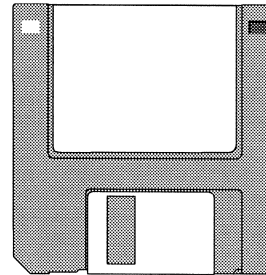


DOWNLOAD



1.1 Main Features

- Program runs under Microsoft® Windows® 3.1 or higher, including Windows® 95
- Password protection with four separate authority levels
- Operator Identification Utility provides operator information which is stored in a database
- Download File Utility permits versatile program setup for programming control panels. Create and customize a Master Default Download Program or edit existing programs
- Upload File Utility permits versatile examination of retrieved panel programs
- Sorting of Programming Data in Tabular Setup screen by device address, type, function or zone
- File Comparison Utility allows location by location comparison of separate upload and download files
- Graphic representation of installed devices
- Simulate feature displays correlation of input and output devices
- Verification of program prior to Downloading to panel if selected
- Print Utility allows configurable printing of upload and download file information
- On-line Help feature



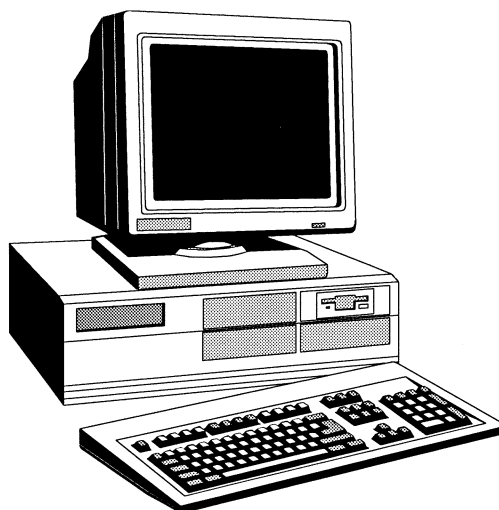
CHAPTER 2

2.0 Getting Started

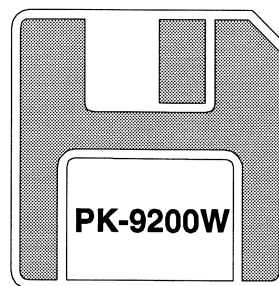
The PK-9200W Software provides a convenient and powerful tool which can be used to program and manipulate the MS-9200 programming data from a PC or laptop. This user friendly utility has been designed to provide many features which will enhance the control panel's programmability. In order to take full advantage of the available features, it is important to become familiar with the PK-9200W functions and the environment in which the program was designed to operate. This chapter provides information on the minimum system requirements for the computer in which the PK-9200W will be installed.

Some computer literacy and a rudimentary understanding of DOS and Windows® are necessary to successfully use this utility. Even if exposure to computers is limited, the information in this chapter along with DOS and Windows® reference material should provide sufficient knowledge to use the PK-9200W program. Take the time to read and understand the installation procedures and system requirements as presented in this chapter.

An **On-line Help** feature has been incorporated into the software. For information about a screen option, use the mouse arrow to point to the screen option button or text block. Click and hold the mouse button, and move the arrow off the selected screen button or block. Release the mouse button and then press the F1 keyboard key to display the Help screen for the selected option.



**WINDOWS® 3.1
(Or Higher)
Or WINDOWS® 95**



2.1 Basic System Requirements

The PK-9200W Program has been designed for a specific computer environment. Although most IBM AT or compatible computers will accommodate the PK-9200W software, specific computer requirements and operating systems must be adhered to. In order to ensure proper operation of the PK-9200W software, the minimum requirements listed below must be met.



2.1.1 System Microprocessor

Most IBM AT or compatible computers with at least a 386 microprocessor may serve as a service terminal and will accommodate the PK-9200W software. It is recommended that a computer with a 486-66MHz microprocessor be used for quicker response times.



2.1.2 Memory and Drive Requirements

The service terminal must have a minimum of 4 megabytes of on board RAM in order to run the PK-9200W software. The program must be run from a hard drive and requires a minimum of 4 megabytes of hard drive space to store the program.



2.1.3 Monitor

A minimum of a VGA monitor is required for adequate display of the PK-9200W menu screens.



2.1.4 Mouse

Any IBM compatible mouse or track ball should be used to run the program. The entire program may also be run from a standard 101-key keyboard although certain features will not be accessible.



2.1.5 Microsoft® Windows®

The PK-9200W software was developed to run in a Windows® environment. Microsoft® Windows® version 3.1 or higher or Windows® 95 must be installed.

To take full advantage of the Windows®-based software, a basic understanding of Windows® is needed and may be acquired from the many excellent books and manuals on Microsoft® Windows®. It is not the intention of this manual to provide this training, however some of the terms used in reference to Windows® are indicated in this section.

2.2 Inventory

The PK-9200W Off Line Programming Utility Kit P/N PK-9200W contains the following:

- Four 3½" floppy disks.
- PK-9200W Instruction Manual P/N 50684

2.3 Loading Software

The PK-9200W software, which is supplied on four 3½" floppy disks, must be loaded onto the computer hard drive. The software should be loaded using Windows®.

2.3.1 Loading PK-9200W using Windows®

With Windows® 3.1 or higher installed and the Program Manager being displayed, insert the PK-9200W floppy disk labeled 'Disk 1 of 4' into the floppy drive. Using the mouse pointer, click on File in the Program Manager menu line. Select Run from the list of options under File by clicking on it with the mouse. The window shown in Figure 2-1 will be displayed with a cursor blinking in a box labeled Command Line.

With Windows® 95 installed, using the mouse pointer, click on the Start button. The window shown in Figure 2-2 will be displayed. Using the mouse pointer, click on Run to display the dialog box shown in Figure 2-3. The cursor will be blinking in the box labeled Open.

For Windows® 3.1 or higher and Windows® 95, type the following in the Command Line or Open line:

A:\SETUP.EXE

If a floppy drive other than A is used, replace **A** with the floppy drive in which the PK-9200W floppy disk is inserted. Click on the OK button in this screen. The computer will begin loading the software from the floppy disk to the hard drive. The software will provide prompts as indicated in Section 2.3.2.

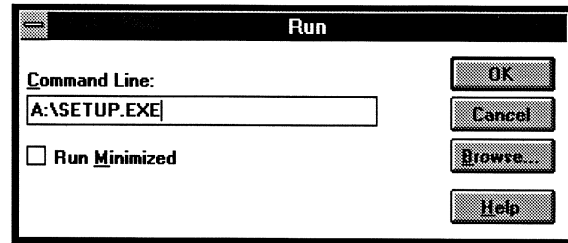


Figure 2-1: Windows® 3.1 Dialog Box

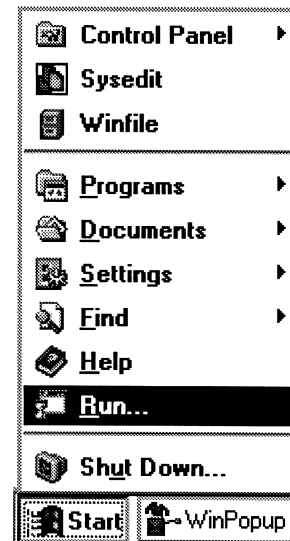


Figure 2-2: Windows® 95 Start

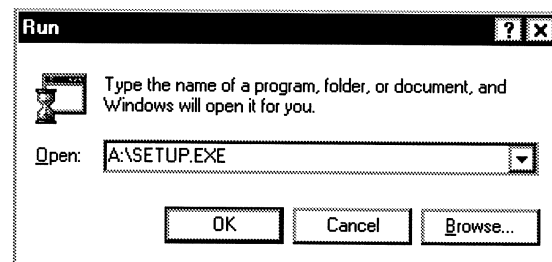


Figure 2-3: Windows® 95 Dialog Box

2.3.2 PK-9200W Installation Prompts

One of the first screens to be displayed during the installation process is shown in Figure 2-4. This screen recommends closing any applications which may be running before continuing with the PK-9200W installation. After closing all applications, click on the OK button.

The screen displayed in Figure 2-5 indicates the default path for loading the software to the hard drive. As shown in the prompt, the program will be loaded on the C drive in a directory called PK9200W when the button (see Figure 2-5 arrow) is clicked. If you wish to change this default path, type in the new information after clicking on the 'Change Directory' button.

For example, if you have a partitioned hard drive containing a D drive, you may load the program to the D drive partition. If you wish to call the directory something other than PK9200W, type a different name such as PROGRAM (limit is 11 characters). To use more than 8 characters, a period followed by up to 3 characters may be entered, such as PROGRAM.DIR. The information would be typed in as follows:

D:\PROGRAM

Click on the Install button (indicated by the arrow) to continue the installation.

Note: The last floppy disk, labeled 'Disk 4 of 4', should remain in the disk drive until installation is complete.

The last installation screen as shown in Figure 2-6, informs you that the installation is complete. Use the mouse arrow to click on the OK button in this screen. The final installation process is the creation of the Upload/Download program ICON.

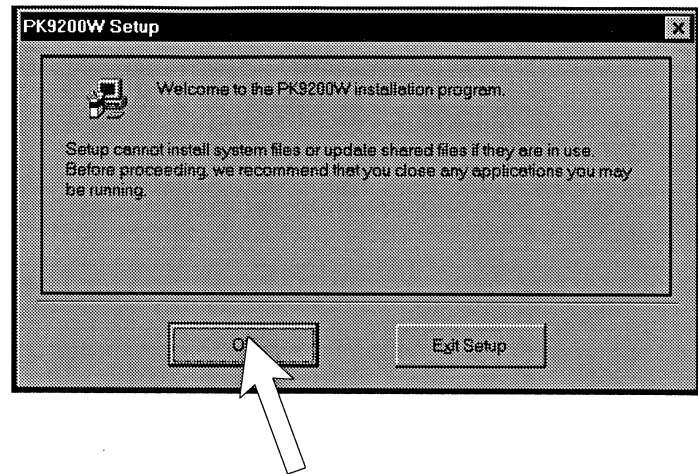


Figure 2-4: Installation To Hard Drive

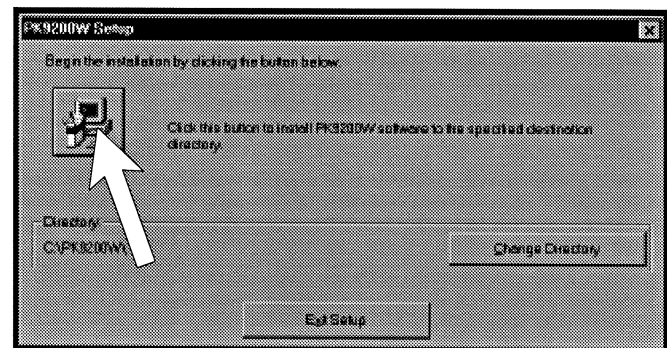


Figure 2-5: Installation Path

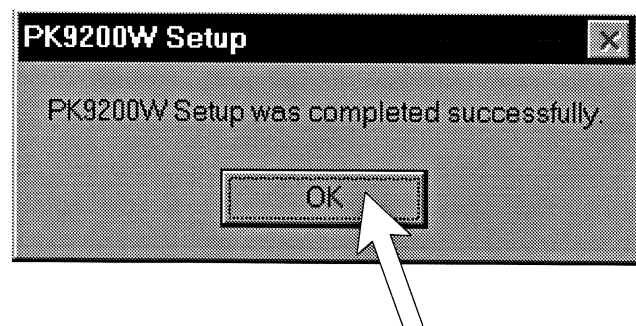


Figure 2-6: Installation Completed

2.4 Cable Connections

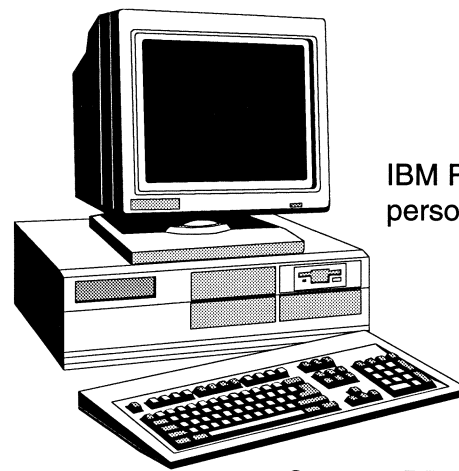
The PK-9200W Off Line Programming Utility can be used in two ways:

- Off-line - the PC is not connected to the control panel, but program files can be created or modified for later use.
- On-line - the PC is connected to the control panel and program files can be transferred between the two devices.

To connect the PC to the control panel, connect the 9-pin end of the cable supplied with the PIM-24 interface module, to the 9-pin serial connector on the PC. If a 9-pin serial port is not available on the PC, use the 9-pin to 25-pin adapter included with the PIM-24. Connect the other end of the cable with the attached PIM-24 interface module to J11 (Optional Printer & Up/Down Load Connector) on the control panel main circuit board (refer to Figure 2-7).

Warning: *Never connect a PC to the control panel when there is a preexisting earth ground fault condition on the panel, since damage can result.*

The control panel does not have to be physically connected to the PC's serial port in order to use the programming application. The PC and the control panel need to be connected only during the transfer of files between the PC and the MS-9200.



IBM PC-compatible personal computer

Connect DB9F Connector to COM1, COM2, COM3 or COM4 on computer

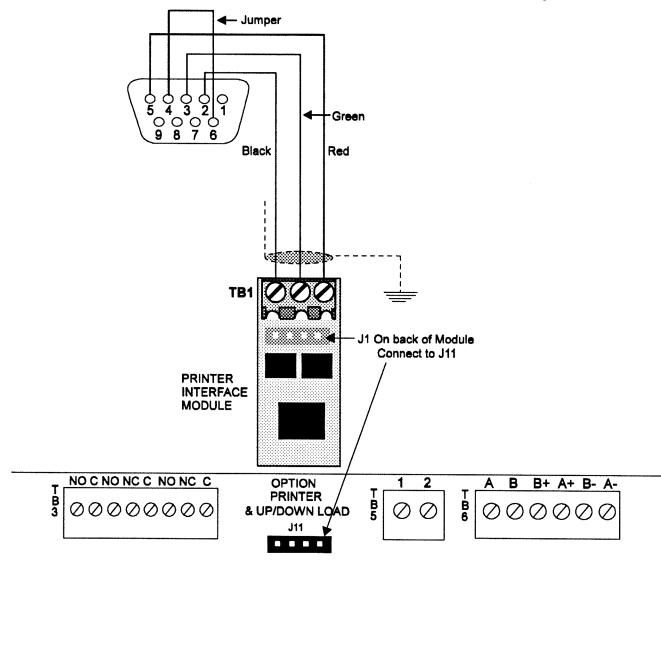


Figure 2-7: PC Connection to MS-9200

CHAPTER 3

3.0 User Interface

Following the completion of the PK-9200W program installation, a window is created with the PK-9200W ICON as shown in Figure 3-1. The Upload/Download program can be run by placing the mouse pointer on the ICON and double clicking.

The first screen displayed when the PK-9200W program is run is the Copyright Screen shown in Figure 3-2. Read the information on this screen before proceeding with the PK-9200W Upload/Download program. Clicking on the OK button indicates agreement and compliance with this statement.

Note: From this point on, all subsequent menus can be accessed and functions may be performed using the keyboard. This is especially useful when a mouse is not available. The user can move between buttons or fields via the 'Tab' key, followed by pressing the 'Enter' key.

3.0.1 Initial Use of PK-9200W

The screen shown in Figure 3-3 will appear only on initial use of the PK-9200W Upload/Download Program. The primary (master) program operator is assigned at this time. The flashing cursor will be in the top box labeled Last Name. The primary or master operator types in the last name and then places the mouse cursor in the First Name box and clicks. The cursor moves to the next field labeled First Name where the operator types the first name. The mouse cursor is placed in the Operator Password box and clicked. The cursor now moves to the Operator Password field. A user defined password

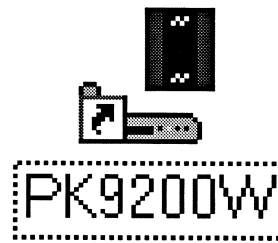


Figure 3-1: PK-9200W ICON

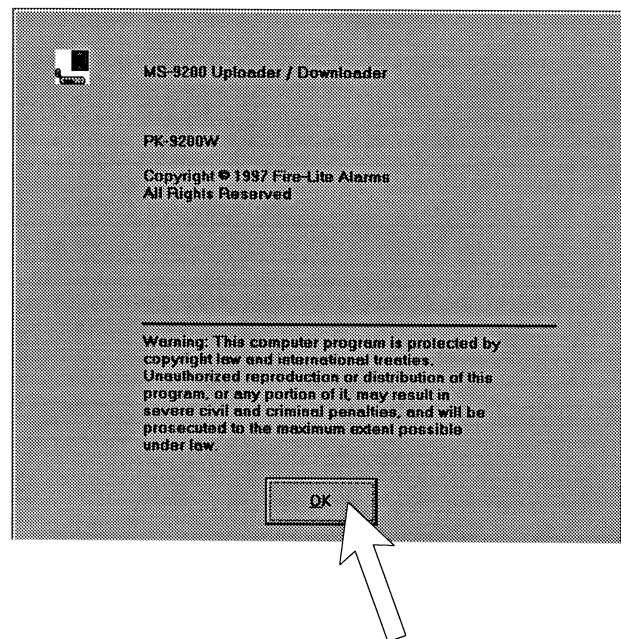


Figure 3-2: Copyright Screen

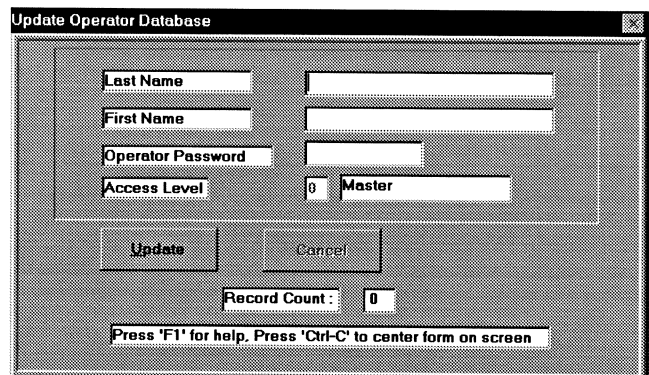


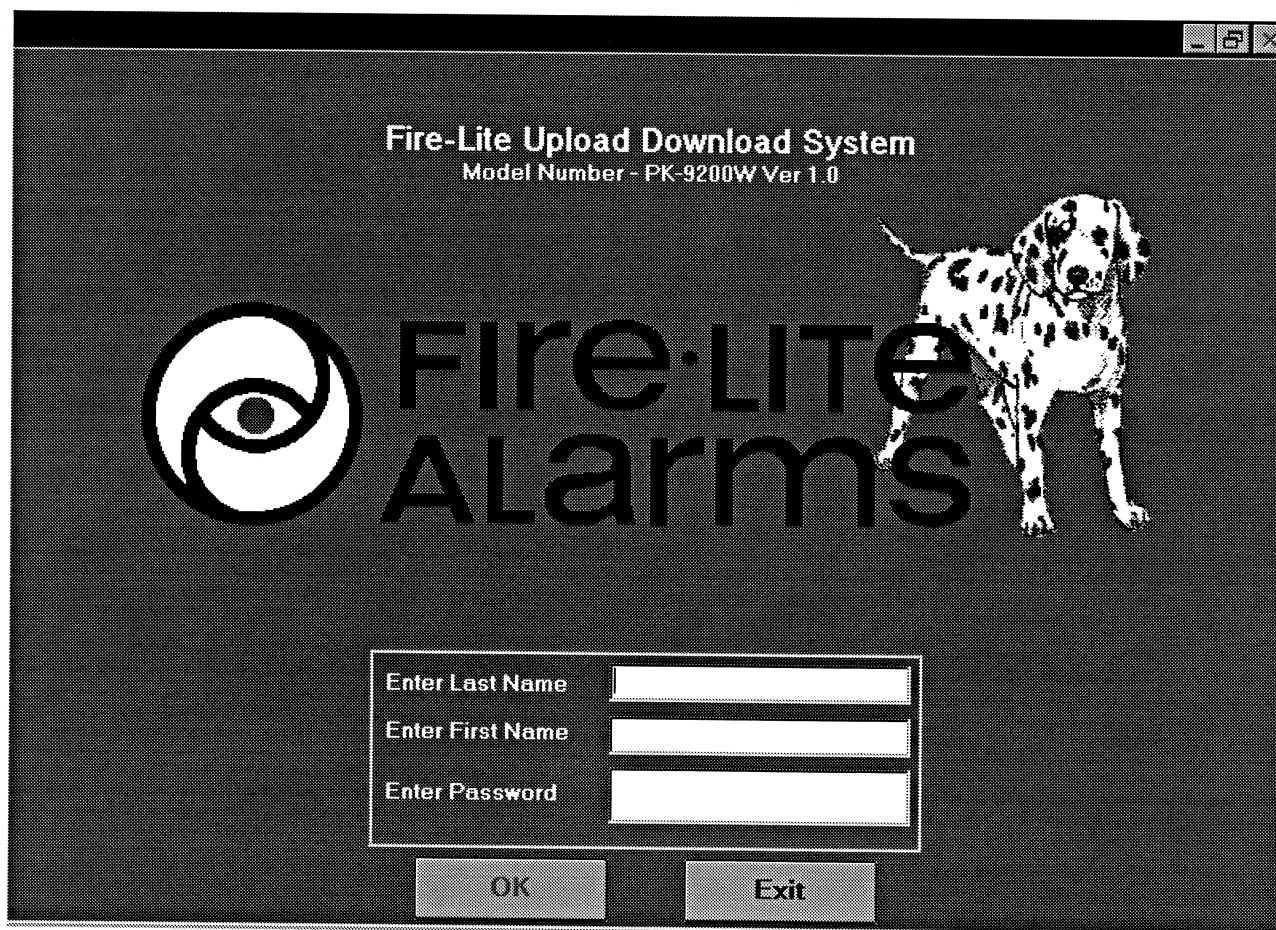
Figure 3-3: Initialization Screen

consisting of at least 1 but not more than 8 alphanumeric characters is typed in. The name and password should be checked and confirmed for accuracy. If satisfied with this data, position the mouse pointer on the Update key and click to store this information. The software is now registered to the individual entering this data. This screen will not appear on subsequent start-up of the PK-9200W program.

3.0.2 Log-in as Master

Following the Initialization screen shown in Figure 3-3, or each time the Upload/Download program is run after initialization, the screen shown in Figure 3-4 will appear. The operator must type in the Last Name, the First Name and the previously assigned password. Movement from one entry field to the next is accomplished by pressing the Enter key, the Tab key or by using the mouse arrow to click on the next field. Once the Password is keyed in, click on the OK button or press the Enter key twice.

It should be noted that for security reasons, the password is not displayed as it is typed (asterisks appear instead). Make certain the password is typed correctly since there is no visual confirmation. Any incorrect entries during Log-in will result in a message screen stating Error With Log-in.



Fire-Lite Upload Download System
Model Number - PK-9200W Ver 1.0

Fire-LITE
ALARMS

Enter Last Name

Enter First Name

Enter Password

OK Exit

Figure 3-4: Log-in

3.1 Programming Features in Main Menu

Following a successful Log-in, the Main Menu screen shown in Figure 3-5 will be displayed. Each menu option is described in the sequence in which it would normally be used for an initial MS-9200 panel upload or download.

3.1.1 Operator Setup

This optional menu selection may be used to create new users and maintain existing operators. The individual designated as the Master (Level 0 access) during the program initialization process has access to all program options and features. The Master may, however, designate an alternate Master for Level 0 or limited access to Levels 1 through 3 as described in the following paragraphs.

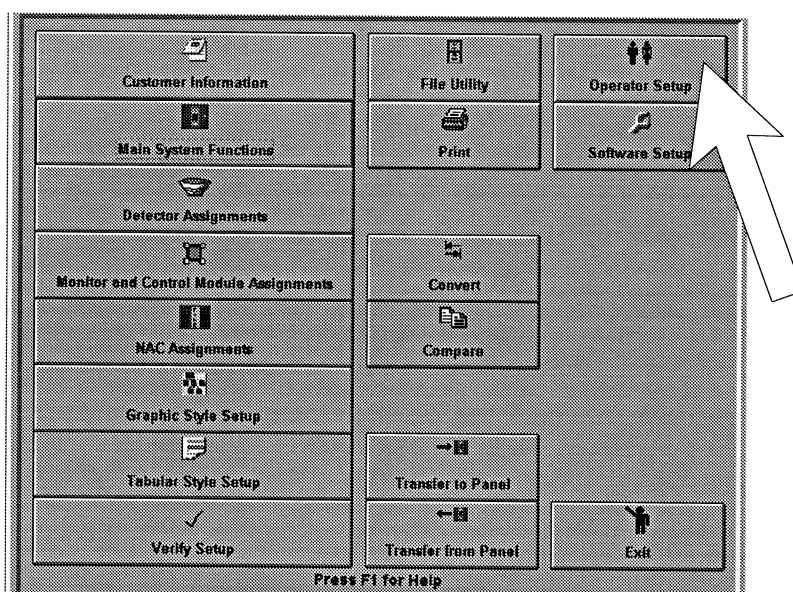


Figure 3-5: Main Menu

Figure 3-6 shows the screen which will be displayed by clicking on the **Operator Setup** button. The Name fields in this display will contain the name of the individual who initially installed the PK-9200W program and is designated the master. This screen allows the master to create alternate masters and designate individuals with lower access levels.

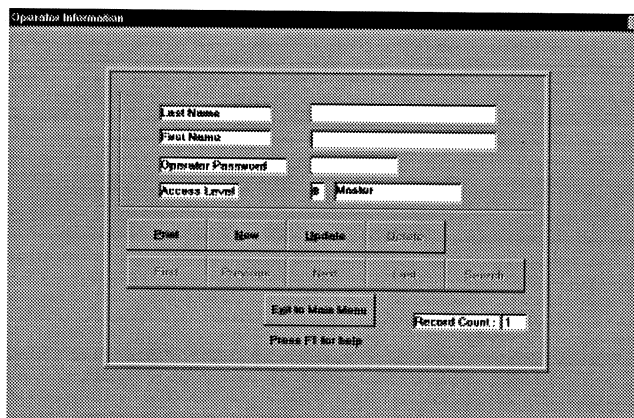


Figure 3-6: Operator Information

The Record Count displayed in the lower right corner of the screen indicates the number of individuals with access to the program. The count following initialization should be 1 since the program installer (master) is the only one with initial access.

In the screen displayed in Figure 3-6, clicking on the **Print** button will allow printing of the current operator or the entire database. Clicking on the **New** button adds new operators. Clicking on the **Update** button modifies the current operator. Clicking on the **Delete** button deletes (with verification) the current operator. The remaining buttons (except the **Exit** button) allow navigation through the database.

Using the mouse pointer, click on the **New** button if you wish to add someone to the access list. The screen shown in Figure 3-7 will appear. Type the Last Name, First Name, Password and access level for the new individual. Complete each entry by pressing the **Enter** key or clicking on the next field with the mouse pointer. When the password has been entered and the **Enter** key pressed, the cursor will move to the Access Level box. Typing the desired Access Level will automatically cause the adjacent box to display the allowed function for that level. Available Access Levels follow:

- 0 = Master User (all functions)
- 1 = Upload/Download
- 2 = Upload Only
- 3 = View/Print Files

Clicking on the **Cancel** button will clear all data entered in this screen prior to Updating. Clicking on the **Update** button will store this information and increment the Record Count by 1. The fields will clear in preparation for new input data. If no new user is to be added, click on the **Exit** button to return to the **Main Operator Setup** screen. From this screen click on **Exit To Main Menu** to return to the main menu selections.

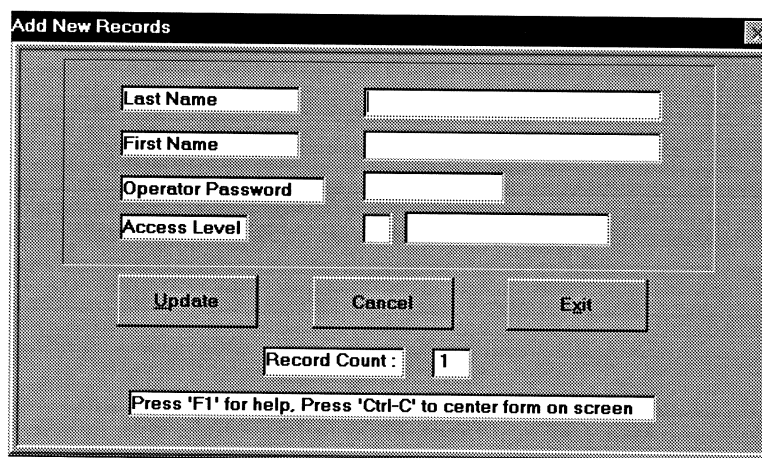


Figure 3-7: New Access

3.1.2 Software Setup

The PK-9200W software must be configured for compatibility with the user's PC communications ports. Clicking on the **Software Setup** button in the Main Menu will display the options screen shown in Figure 3-8. Click on the appropriate selections.

The **Port** selection (COM1 through COM4) determines the location of the physical connection for the PIM-24 interface module cable. This selection depends on the PC's available serial connectors. Refer to the PC technical manual for information.

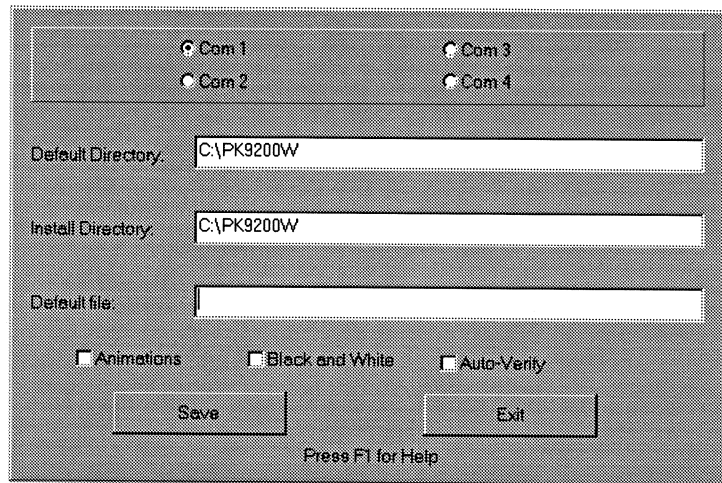


Figure 3-8: Software Setup

The **Default Directory** field is used to select the directory in which the PK-9200W Upload/Download files will be stored. The directory initially displayed will be the one in which the PK-9200W program was installed. By clicking in this field, a Windows® style dialog box will be displayed which will allow the operator to select a default directory path.

The **Install Directory** field displays the directory in which the PK-9200W program was installed.

The **Default File** field is used to allow the operator to select a file to be used as a default panel setup file. Clicking in this field will cause a Windows® style dialog box to appear which will allow the operator to select the default file name and directory.

Animation, **Black and White** and **Auto-Verify** check boxes are also displayed near the bottom of the screen as shown in Figure 3-8. Clicking on **Animation** will cause a check mark to appear in the box in front of this selection. When selected, this option will cause a short animation to run on program start-up which will indicate whether or not the log-in has been successful. The animation can be stopped any time by pressing any key.

Clicking on **Black and White** will cause a check mark to appear in the box in front of this selection. When selected, this option will change the background colors in the Tabular Style Setup screen to white. This option is provided in the event the PK-9200W program is being used on a laptop computer which cannot display the background colors.

Clicking on **Auto-Verify** will cause a check mark to appear in the box in front of this selection. When selected, this option will cause the software to automatically check for basic programming errors, such as input devices not zoned to activate an output device or output devices not zoned to an input device, prior to sending the program to the panel.

Clicking on the **Save** button will save the selections which were made in this screen. Clicking on the **Exit** button will exit this screen without saving the selections.

3.1.3 File Utility

Clicking on **File Utility** in the Main Menu, will display the pop-up window shown in Figure 3-9. This option allows the creation or customization of a program for the MS-9200 fire alarm control panel. Note that in Figure 3-9, the button labeled **Load Customer Default** will appear only if a default file was specified in the **Software Setup** screen (refer to Figure 3-8). In addition, the button labeled **Save File As** will appear only after one of the **Load** buttons has been selected to load a program file.

File extensions are automatically created by the PK-9200W software. For example, naming a file *DEFAULT* and saving it will cause the file to be saved as *DEFAULT.MDB*. *MDB* (Microsoft DataBase) is the extension created for all user programs. Deleting a file with an *MDB* extension will remove all setup information for that program. A number of other extensions are created by the software program and stored in the Upload/Download Directory. They are as follows.

- LDB* - A file with an *LDB* extension is created each time a file with an *MDB* extension is opened. The *LDB* file can be deleted without affecting the *MDB* file or the data storage.
- BAK* - A file with a *BAK* extension is created each time the *MDB* file is opened and then saved. The *BAK* (Backup) extension of this file may be renamed *MDB* if the operator wishes to retrieve a previous version of the program file. Files with a *BAK* extension can be deleted without affecting the program.
- DAT* - A file with a *DAT* extension contains all of the operator information (refer to Section 3.1.1). Deleting a file with the *DAT* extension removes all operators from the system.
- BMP* - A graphic file used by the PK-9200W program. These files must not be deleted.
- EXE* - An executable file used to run a program. These files must not be deleted.
- HLP* - A file used to run the PK-9200W Help feature. These files must not be deleted.

3.1.3.1 Loading the Factory Default File

If the PK-9200W Upload/Download program is used for the first time, there will be no existing program files. It will be necessary to create a new program file. Clicking on the **Load Factory Default** button will display a Windows® style dialog box. Type the name of the program file you wish to create. This name may be a Customer Default which can be used as a general template for programming future MS-9200 panels or the name may refer to a specific MS-9200 job site. Clicking the **OK** button will cause the Upload/Download program to load the factory default program file under the name you just designated. The default program will not be displayed at this time. It should be noted that the factory default program contains no programmed options. It is to be used as a template for programming the MS-9200 options and features.

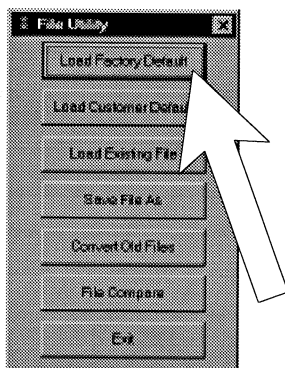


Figure 3-9: File Utility

3.1.4 Customer Information

Clicking on **Customer Information** in the Main Menu screen, will display the newly created file (refer to Section 3.1.3.1) containing the blank customer information screen shown in Figure 3-10. (Note that if a previously programmed file is opened, the text blocks may contain customer information). The optional text which is entered in each field is used as a reference only. The information is not sent to the MS-9200 panel during programming. To enter text, click in the white text block and type the appropriate information for each field.

Customer Name:

Address 1:

Address 2:

City:

State: ZIP Code:

Country:

Phone #1:

Phone #2:

Contact Person:

Press F1 for Help

Figure 3-10: Customer Information

3.1.5 Main System Functions

Clicking on **Main System Functions** in the Main Menu screen, will display the newly created file (refer to Section 3.1.3.1) containing the factory default options screen shown in Figure 3-11. Individual panel options for the MS-9200 are selected using this screen. (Note that if a previously programmed file is opened, the text blocks may contain different information from that shown in Figure 3-11).

Style: Annunciator:

Auto Silence: Silence Inhibit:

Pre-Signal: Alarm Verification:

Alarm/Trouble Reminder: Bell Coding:

Printer/LCD40:

Press F1 for Help

Figure 3-11: Main System Functions Screen (Factory Default)

3.1.5.2 Style

This option refers to the style of SLC communication wiring installed for the addressable devices connected to the MS-9200 panel.

Clicking on the Style block will cause a drop-down box to appear as shown in Figure 3-12.

The available options are:

- SLC Loop Style 4 [Class B]
- SLC Loop Style 6 (7) [Class A]

Click on the desired option to select it.

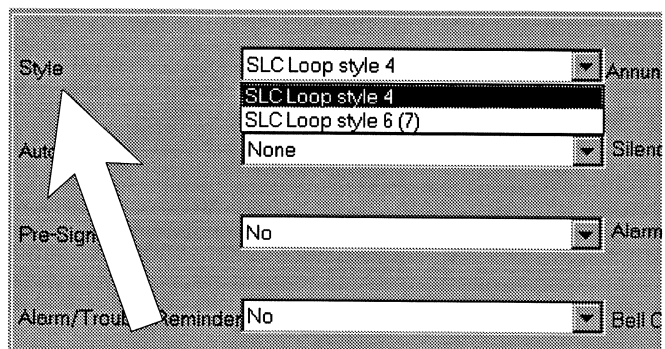


Figure 3-12: Style Options

3.1.5.3 Annunciator

Clicking on the Annunciator block will cause a drop-down box to appear as shown in Figure 3-13. The operator is able to specify whether or not an annunciator and/or UDACT-F are to be used with the MS-9200 panel being programmed. The options include:

- None [for no annunciator or UDACT-F]
- 56 Zone [for annunciator with a max. of 56 zones]
- 198 Point [for annunciator with a max. of 198 points]
- 56 Zones Annunciator w/UDACT-F [for 56 zone annunciator and UDACT-F]
- 198 Points Annunciator w/UDACT-F [for 198 point annunciator and UDACT-F]

By clicking on one of the five choices, the software will configure the panel to operate with one of the selected options.

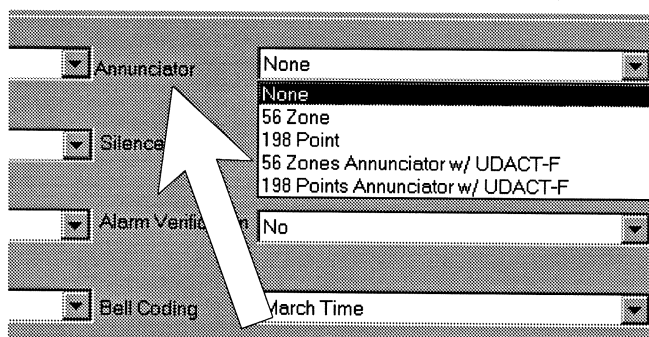


Figure 3-13: Annunciator Options

3.1.5.4 Auto Silence

If this option is selected, the notification appliances will be silenced automatically after ten minutes of activation. *Auto Silence operation requires the approval of the local Authority Having Jurisdiction.*

Clicking on the Auto Silence block will cause a drop-down box to appear as shown in Figure 3-14. Clicking on the **Yes, 10 min.** option will enable the Auto Silence feature.

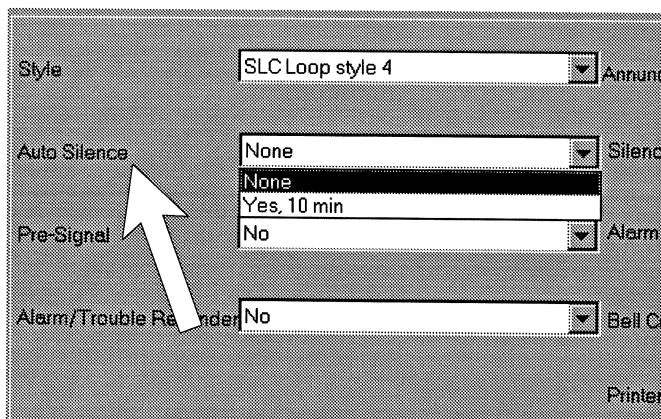


Figure 3-14: Auto Silence Option

3.1.5.5 Silence Inhibit

This option, if selected, prevents the Alarm Silence switch from functioning for 60 seconds after an alarm. A new alarm during the initial 60 seconds will cause the timer to restart with a new 60 seconds. *Silence Inhibit operation requires the approval of the local Authority Having Jurisdiction.*

Clicking on the Silence Inhibit block will cause a drop-down box to appear as shown in Figure 3-15. Clicking on the **Yes, 60 sec.** option will enable the Silence Inhibit feature.

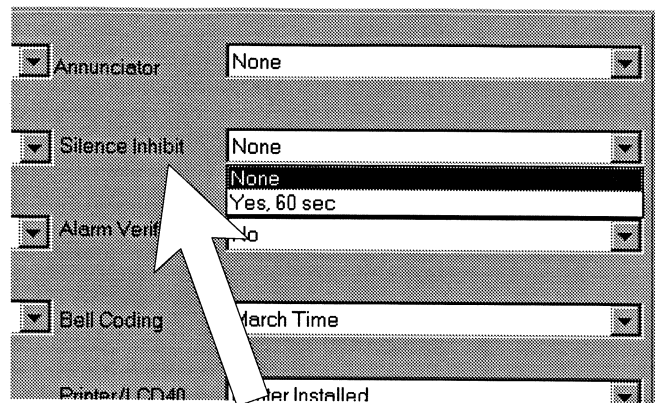


Figure 3-15: Silence Inhibit Option

3.1.5.6 Pre-Signal

This option is used to delay output activation (control modules and NACs) for 15 seconds, while allowing for visual verification by an individual. *Pre-signal operation requires the approval of the local Authority Having Jurisdiction.*

Clicking on the Pre-Signal block will cause a drop-down box to appear as shown in Figure 3-16. Clicking on **Yes** will enable the Pre-Signal feature.

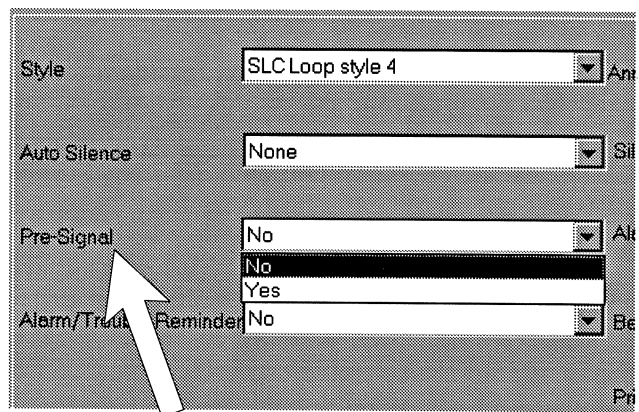


Figure 3-16: Pre-Signal

3.1.5.7 Alarm Verification

If Alarm Verification is selected, an addressable smoke detector's alarm is ignored for a retard time of 13 seconds and the detector's alarm condition is automatically reset. A confirmation period of 107 seconds follows, during which a subsequent alarm from the same detector will cause the panel to immediately activate the appropriate outputs.

If a different detector alarms any time during the first detectors verification period, the panel will immediately activate all appropriate outputs. If no additional detector alarms occur within 2 minutes of the first alarm (13 second retard plus 107 second confirmation), the timer resets and the panel is ready to verify any new detector alarms which may occur.

Clicking on the Alarm Verification block will cause a drop-down box to appear as shown in Figure 3-17. Clicking on the **Yes, 13 sec. retard, 107 sec. verification** option will enable the Alarm Verification feature.

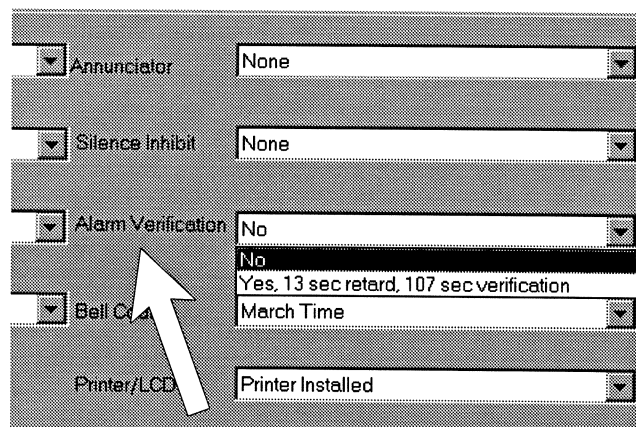


Figure 3-17: Alarm Verification

3.1.5.8 Alarm/Trouble Reminder

If enabled, this feature causes a reminding 'beep' every 15 seconds during an alarm (after the Silence switch is pressed) and a 'beep' every two minutes during a trouble condition after the Acknowledge or Silence switch is pressed. The 'beeps' from the onboard piezo will occur until the alarm or fault is cleared.

Clicking on the Alarm/Trouble Reminder block will cause a drop-down box to appear as shown in Figure 3-18. Clicking on the **Yes 15 sec. for alarms, 2 min. for trouble** option will enable this feature.

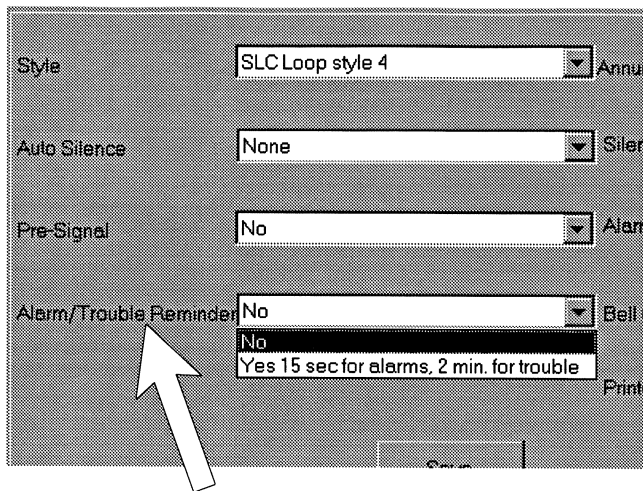


Figure 3-18: Alarm/Trouble Reminder

3.1.5.9 Bell Coding

This option allows the selection of coding for the MS-9200 main board Notification Appliance Circuits. Clicking on the Bell Coding block will cause a drop-down box to appear as shown in Figure 3-19. The available options are:

- March Time - pulses at 120 PPM.
- Temporal - Pulses temporal pattern
- California - 10 sec. ON/5 sec. OFF
- Steady - No pulse

Click on the desired bell coding option to select it.

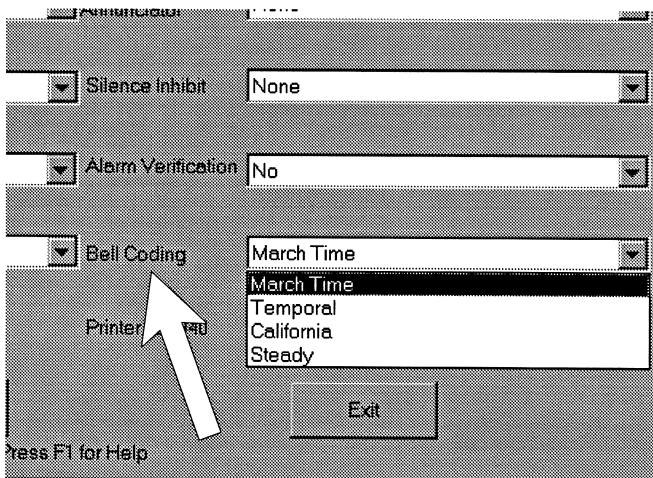


Figure 3-19: Bell Coding

3.1.5.10 Printer/LCD-40

Clicking on the Printer/LCD-40 block causes a drop-down box to be displayed as shown in Figure 3-20. The available options are:

- Printer Installed
- LCD-40 Installed
- None

Note that either a printer may be installed or an LCD-40 annunciator, but not both. Click on the desired option to select it.

3.1.5.11 Save

After making the appropriate selections in Panel screen, click on the **Save** button to save all option selections.

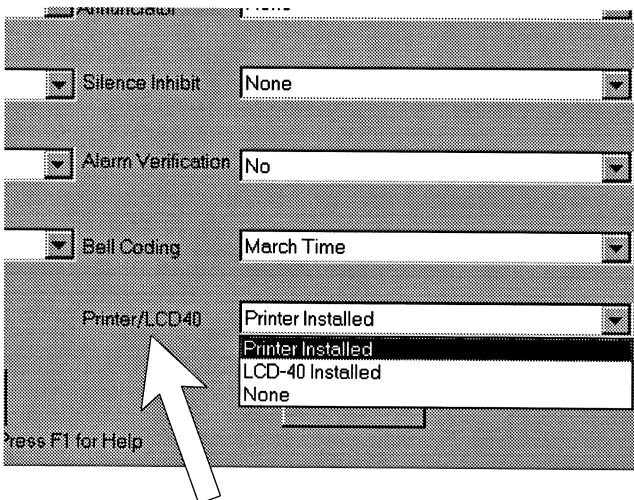


Figure 3-20: Printer/LCD-40

3.1.6 Detector Assignments

Clicking on **Detector Assignments** in the Main Menu screen will display the screen shown in Figure 3-21. The Detector Assignments screen is used to program the addressable smoke detectors which will be connected to the SLC Loop on the MS-9200. Note that no smoke detectors are displayed in this screen since this represents a new file which has not yet been programmed.

Detector Assignments ->

Device Address: 1 Detector Type: Photo

Type Code Label: SMOK DET Zone Assignment: 0

Adjective: Noun:

New Delete Previous Next Save Add Multiple 0 Exit

Device Address	Type	Type Code Label	Zone Assignment	Adjective	Noun
----------------	------	-----------------	-----------------	-----------	------

Figure 3-21: Detector Assignments Screen

3.1.6.1 Device Address

The device address corresponds to the smoke detector's address switch setting. Address 1 is the default address which is displayed when the Detector screen is first accessed. To program a device with a different address, double click on the Device Address block and type the address of the device to be programmed.

Note that the maximum number of addressable detectors which can be installed on the SLC Loop is 99, therefore the valid range of detector addresses is 01 to 99.

3.1.6.2 Detector Type

Clicking on the Detector Type block will cause a drop-down box to appear as shown in Figure 3-22. The available options are:

- Ion (ionization smoke detector)
- Photo (photoelectric smoke detector)
- Photo with Heat (combo photo and heat)

Click on the desired smoke detector type to select it.

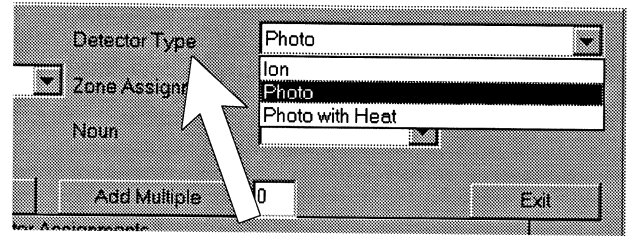


Figure 3-22: Detector Type

3.1.6.3 Type Code Label

The Type Code Label block indicates that the present screen is used to program Smoke Detectors. There are no other options in this field.

3.1.6.4 Zone Assignment

The block labeled Zone Assignment is used to assign the smoke detector to an alarm zone. When a detector goes into alarm, all output devices assigned to the same zone will be activated. Double click in the Zone Assignment block and type the appropriate zone number.

Note that each addressable smoke detector can be assigned to only one zone. Valid zone numbers are 00 to 56.

3.1.6.5 Adjective

The Adjective block allows entry of a descriptive word describing the detectors location, function or other pertinent information. Clicking on the down arrow to the right of the Adjective block causes a drop-down box to appear as shown in Figure 3-23. This box contains a list of common adjectives. The entire library of adjectives can be viewed by scrolling the list using the 'scroll bar' to the right of the list. When an appropriate word is located, clicking on it will cause the adjective to be displayed in the Adjective block.

If an appropriate adjective is not found in the list, a new word can be entered by double clicking in the Adjective block and typing the new word. The new word will be added to the list which appears in the drop-down box. Adjectives cannot exceed five characters.

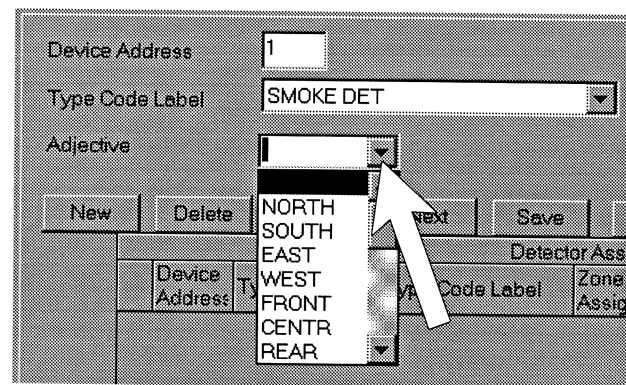


Figure 3-23: Adjective

3.1.6.6 Noun

The Noun block allows entry of a descriptive word describing the detectors location or other pertinent information. Clicking on the down arrow to the right of the Noun block causes a drop-down box to appear as shown in Figure 3-24. This box contains a list of common nouns. The entire library of nouns can be viewed by scrolling the list using the 'scroll bar' to the right of the list. When an appropriate word is located, clicking on it will cause the noun to be displayed in the Noun block.

If an appropriate noun is not found in the list, a new word can be entered by clicking in the Noun block and typing the new word. The new noun will be added to the list in the drop-down box. Nouns cannot exceed nine characters.

3.1.6.7 Save

Clicking on the **Save** button will store the programming for the detector which was just entered. The **Save** button must be clicked after each detector is programmed.

As each detector's programming is saved, the address and all other programmed information for each detector will appear in the bottom half of the Detector screen as shown in Figure 3-25.

3.1.6.8 New

Clicking on the **New** button will create a new smoke detector entry with the next sequential address. All information entered for the previous smoke detector address will remain the same. To alter information, changes can be made to the individual programming fields prior to clicking on the **Save** button.

3.1.6.9 Add Multiple

If multiple smoke detectors with the same programming information and sequential addresses are to be installed, the Add Multiple feature may be used. Click on the text entry block to the right of the **Add Multiple** button and type in the number of smoke detectors to be added. Clicking on the **Add Multiple** button will install the detectors starting with the address following the one displayed in the Device Address block.

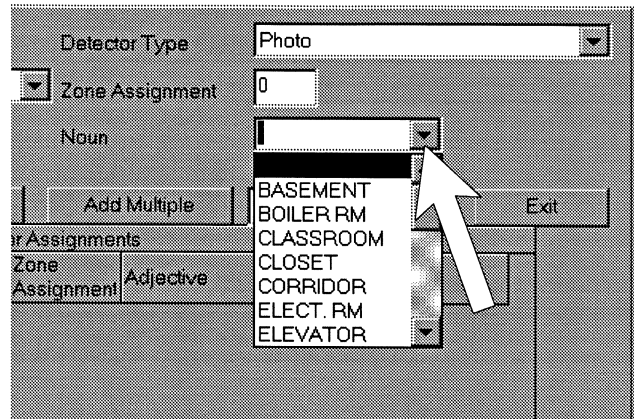


Figure 3-24: Noun

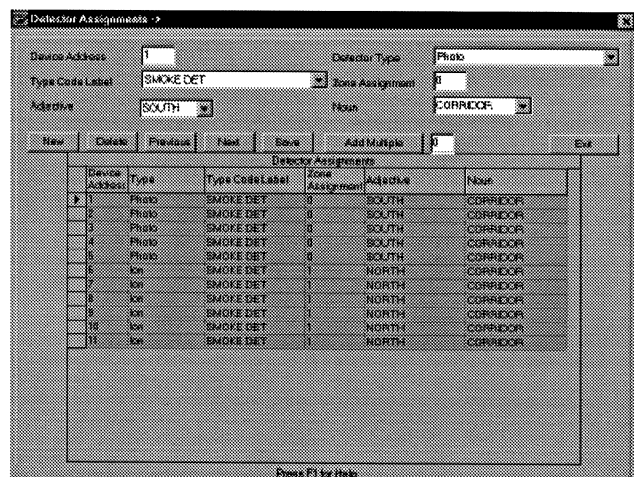


Figure 3-25: Programmed Detectors

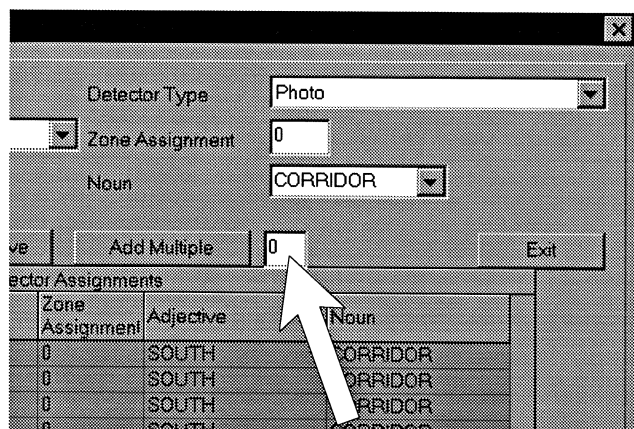


Figure 3-26: Add Multiple Detectors

Note that devices which are already installed can be edited individually or in groups. To edit an individual address, select the device by positioning the mouse pointer in the far left column next to the device to be edited as shown in Figure 3-27. The pointer will change to an arrow pointing to the right. Click the mouse button and the device selected along with its parameters will be highlighted. Changes may now be made in the fields at the top of the screen. Click on the Save button after making all changes.

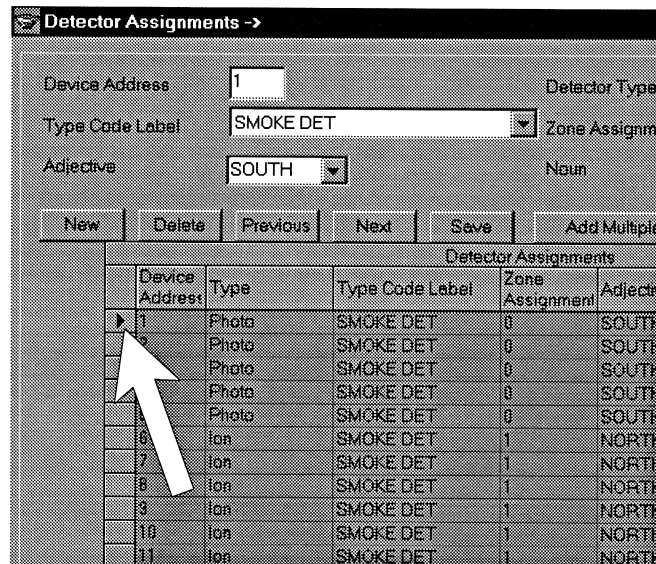


Figure 3-27: Selecting Detectors

To edit a group of devices with the same programming information, hold the keyboard **CTRL** (Control) key down while positioning the mouse pointer in the far left column next to each device to be selected and clicking the mouse button for each device. All selected addresses will be highlighted. Only the programming fields common to all selected devices will remain visible at the top of the screen. Make the desired changes and click the **Save** button to store all changes in the file.

3.1.6.10 Delete

Clicking on the **Delete** button will remove the device, whose address is currently displayed in the Device Address field, from the program database.

To delete a group of devices, hold the keyboard **CTRL** (Control) key down while positioning the mouse pointer in the far left column next to each device to be selected and clicking the mouse button for each device. All selected addresses will be highlighted. Click on the **Delete** button to remove all of the highlighted devices.

3.1.6.11 Previous

Clicking on the **Previous** button will display the information for the previous device.

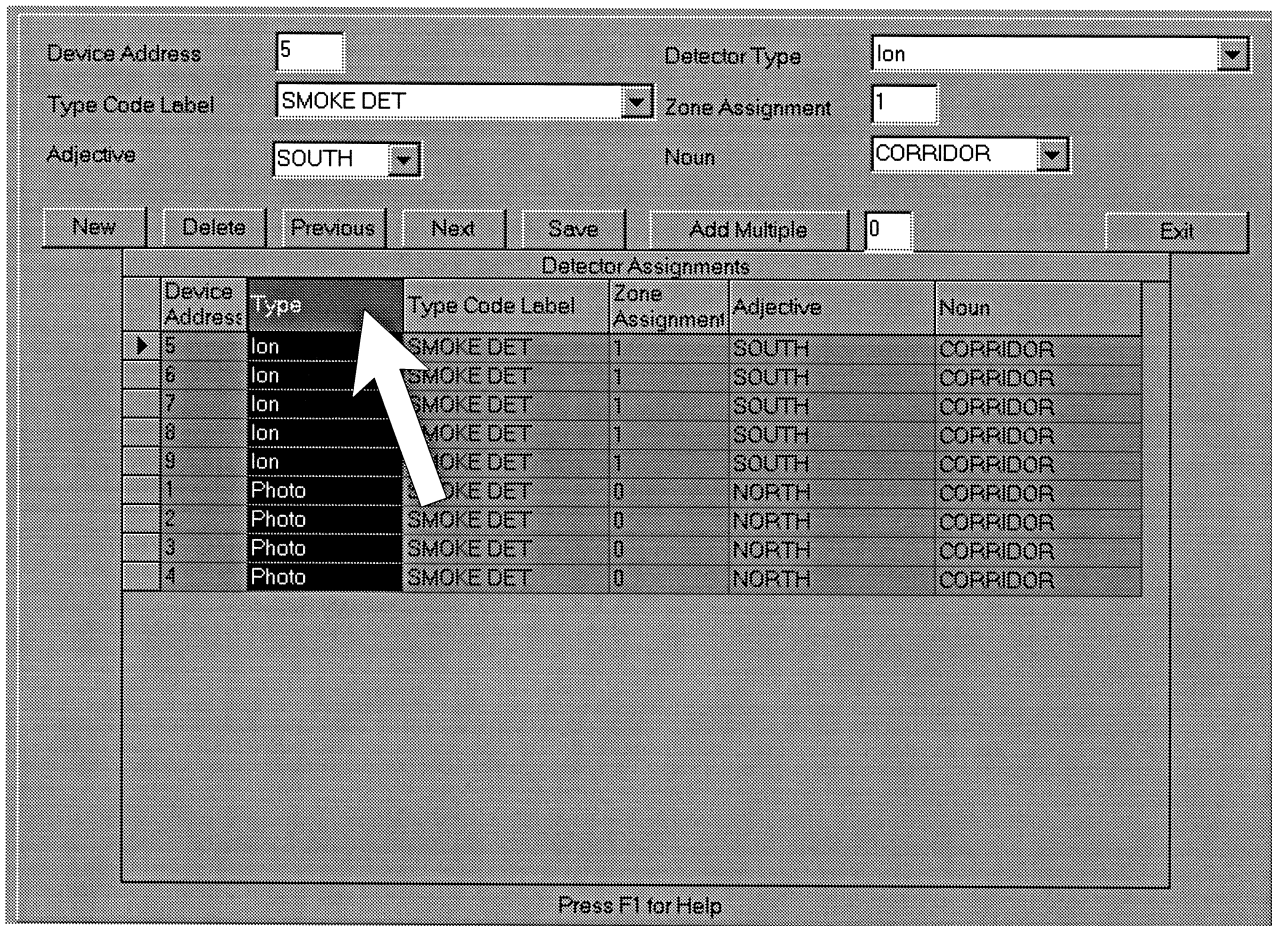
3.1.6.12 Next

Clicking on the **Next** button will display the information for the next device.

3.1.6.13 Sort Detectors by Column Heading

A Sort feature has been incorporated into the Detector Assignments screen. This feature allows the user to sort the screen entries numerically or alphabetically by Device Address, Type, Type Code Label, Zone, Adjective or Noun.

Position the mouse pointer on the column heading to be sorted (the mouse pointer will turn into a down pointing arrow). Click the mouse button to sort the column. Type has been selected in Figure 3-28 to sort this column alphabetically. If the Device Address Column heading is clicked, the column will be arranged numerically by device address.



Device Address: 5 Detector Type: Ion

Type Code Label: SMOKE DET Zone Assignment: 1

Adjective: SOUTH Noun: CORRIDOR

New Delete Previous Next Save Add Multiple 0 Exit

Device Address	Type	Type Code Label	Zone Assignment	Adjective	Noun
5	Ion	SMOKE DET	1	SOUTH	CORRIDOR
6	Ion	SMOKE DET	1	SOUTH	CORRIDOR
7	Ion	SMOKE DET	1	SOUTH	CORRIDOR
8	Ion	SMOKE DET	1	SOUTH	CORRIDOR
9	Ion	SMOKE DET	1	SOUTH	CORRIDOR
1	Photo	SMOKE DET	0	NORTH	CORRIDOR
2	Photo	SMOKE DET	0	NORTH	CORRIDOR
3	Photo	SMOKE DET	0	NORTH	CORRIDOR
4	Photo	SMOKE DET	0	NORTH	CORRIDOR

Press F1 for Help

Figure 3-28: Sorting Detectors

3.1.7 Monitor and Control Module Assignments

Clicking on **Monitor and Control Module Assignments** in the Main Menu screen will display the screen shown in Figure 3-29. The Monitor and Control Modules screen is used to program the addressable monitor and control modules which will be connected to the SLC Loop on the MS-9200. Note that no modules are displayed in this screen since this represents a new file which has not yet been programmed.

Monitor and Control Module Assignment ->

Device Address: 1

Monitor/Control: MONITOR

Type Code Label: MON (silenceable)

1st Zone: 0

2nd Zone:

3rd Zone:

Adjective:

Noun:

New Delete Previous Next Save Add Multiple 0 Exit

Device Address	Type	Type Code Label	1st Zone	2nd Zone	3rd Zone	Adjective	Noun
----------------	------	-----------------	----------	----------	----------	-----------	------

Figure 3-29: Monitor and Control Module Assignments Screen

3.1.7.1 Device Address

The device address corresponds to the module's address switch setting. Address 1 is the default address which is displayed when the Monitor and Control Module screen is first accessed. To program a device with a different address, double click on the Device Address block and type the address of the device to be programmed.

Note that the maximum number of addressable modules which can be installed on the SLC Loop is 99, therefore the valid range of module addresses is 01 to 99.

3.1.7.2 Monitor/Control Module

Clicking on the Monitor/Control Module block will cause a drop-down box to appear as shown in Figure 3-30. The available options are:

- Monitor (addressable monitor module)
- Control (addressable control module)

Click on the desired module to select it.

3.1.7.3 Type Code Label

The Type Code Label block is used to indicate the type of monitor or control module to be programmed into the system.

Clicking on the Type Code Label block will cause a drop-down box to appear as shown in Figure 3-31 for Monitor Modules or Figure 3-32 for Control Modules.

Click on the module type to select it. The selection will appear in the Monitor/Control Module Type block.

3.1.7.4 1st Zone

The block labeled 1st Zone is used to assign a monitor module to an alarm zone. When an initiating device goes into alarm, all output devices assigned to the same zone will be activated. Double click on the 1st Zone block and type the appropriate zone number.

Note that each addressable monitor module can be assigned to only one zone. Valid zone numbers are 00 to 56.

Addressable control modules can be assigned to up to three zones. Valid zone numbers are 00 to 56.

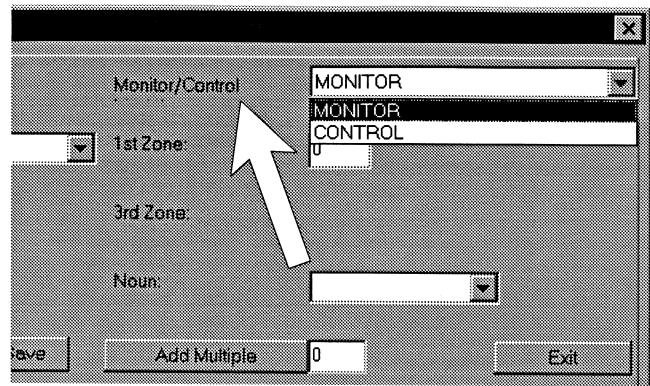


Figure 3-30: Monitor/Control Module

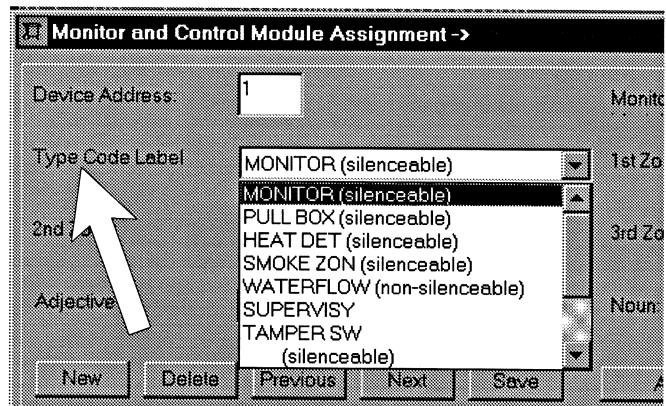


Figure 3-31: Type Code Label (Monitor)

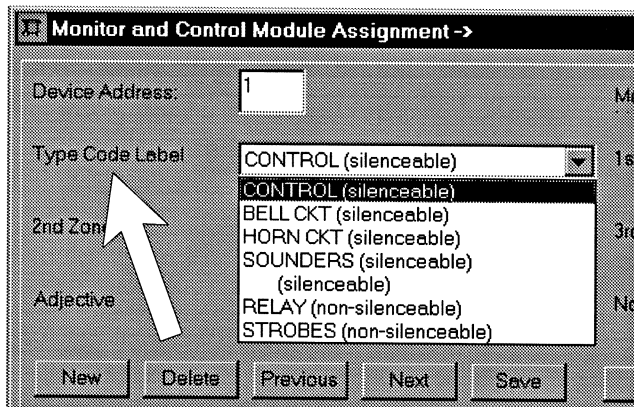


Figure 3-32: Type Code Label (Control)

3.1.7.5 2nd Zone and 3rd Zone

The 2nd Zone and 3rd Zone text blocks will appear along with the 1st Zone text block only when a control module is selected. Each indicating (output) device can be assigned to a maximum of three separate zones. This will allow floor of alarm, floor above and floor below programming. For example, if a detector on the first floor is assigned to Zone 1, a detector on the second floor to Zone 2 and another on the third floor to Zone 3, a control module (NAC) on the second floor may be assigned to Zone 1, Zone 2 and Zone 3. This will cause activation of the control module on the second floor if an alarm occurs on floor one, two or three.

3.1.7.6 Adjective

The Adjective block allows entry of a descriptive word describing the module location, function or other pertinent information. Clicking on the down arrow to the right of the Adjective block causes a drop-down box to appear as shown in Figure 3-33. This box contains a list of common adjectives. The entire library of adjectives can be viewed by scrolling the list using the 'scroll bar' to the right of the list. When an appropriate word is located, clicking on it will cause the adjective to be displayed in the Adjective block.

If an appropriate adjective is not found in the list, a new word can be entered by clicking in the Adjective block and typing the new word. The new word will be added to the list which appears in the drop-down box. Adjectives cannot exceed five characters.

3.1.7.7 Noun

The Noun block allows entry of a descriptive word describing the monitor module location or other pertinent information. Clicking on the down arrow to the right of the Noun block causes a drop-down box to appear as shown in Figure 3-34. This box contains a list of common nouns. The entire library of nouns can be viewed by scrolling the list using the 'scroll bar' to the right of the list. When an appropriate word is located, clicking on it will cause the noun to be displayed in the Noun block.

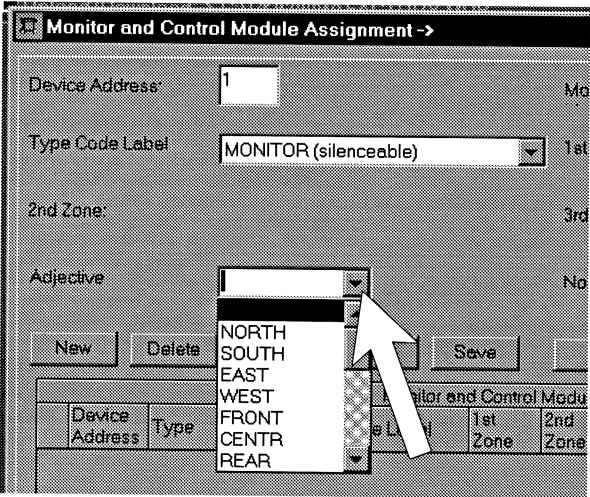


Figure 3-33: Adjective

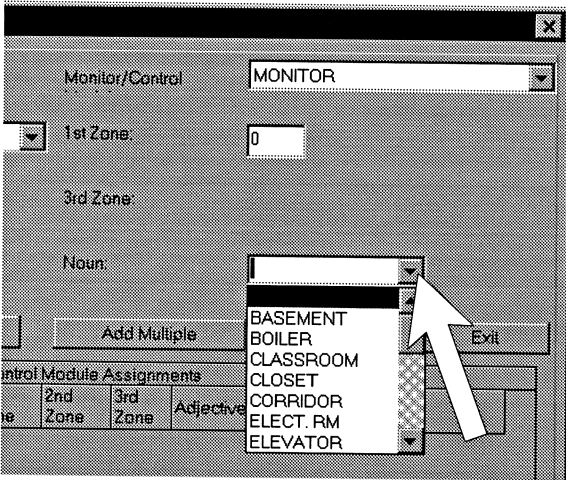


Figure 3-34: Noun

If an appropriate noun is not found in the list, a new word can be entered by clicking in the Noun block and typing the new word. The new noun will be added to the list which appears in the drop-down box. Nouns cannot exceed nine characters.

Note that the Noun block will not appear when a control module is being programmed.

3.1.7.8 Save

Clicking on the **Save** button will store the programming for the module which was just entered. The **Save** button must be clicked after each module is programmed.

As each module's programming is saved, the address and all other programmed information for each module will appear in the bottom half of the Monitor and Control Modules screen as shown in Figure 3-35.

3.1.7.9 New

Clicking on the **New** button will create a new module entry with the next sequential address. All information entered for the previous module address will remain the same. To alter information, changes can be made to the individual programming fields prior to clicking on the **Save** button.

3.1.7.10 Add Multiple

If multiple modules with the same programming information and sequential addresses are to be installed, the Add Multiple feature may be used. Click on the text entry block to the right of the **Add Multiple** button and type in the number of modules to be added. Clicking on the **Add Multiple** button will install the modules starting with the address following the one displayed in the Device Address block.

Note that devices which are already installed can be edited individually or in groups. To edit an individual address, select the device by positioning the mouse pointer in the far left column next to the device to be edited, as shown in Figure 3-36. The pointer will change to an arrow pointing to the right. Click the mouse button and the device

Device Address	Type	Type Code Label	1st Zone	2nd Zone	3rd Zone	Adjective	Noun
1	MONITOR	MONITOR (silenceable 0)				NORTH	CORRIDOR
2	MONITOR	MONITOR (silenceable 0)				NORTH	CORRIDOR
3	MONITOR	MONITOR (silenceable 0)				NORTH	CORRIDOR
4	MONITOR	MONITOR (silenceable 0)				NORTH	CORRIDOR
5	MONITOR	MONITOR (silenceable 0)				NORTH	CORRIDOR
6	CONTROL	CONTROL (silenceable 0)	1	2		SOUTH	
7	CONTROL	CONTROL (silenceable 0)	1	2		SOUTH	
8	CONTROL	CONTROL (silenceable 0)	1	2		SOUTH	
9	CONTROL	CONTROL (silenceable 0)	1	2		SOUTH	
10	CONTROL	CONTROL (silenceable 0)	1	2		SOUTH	

Figure 3-35: Programmed Modules

Device Address	Type	Type Code Label	1st Zone	2nd Zone
1	MONITOR	MONITOR (silenceable 0)		
	MONITOR	MONITOR (silenceable 0)		
	MONITOR	MONITOR (silenceable 0)		
	MONITOR	MONITOR (silenceable 0)		
	MONITOR	MONITOR (silenceable 0)		

Figure 3-36: Selecting Modules

selected along with its parameters will be highlighted. Changes may now be made in the fields at the top of the screen. Click on the **Save** button after making all changes.

To edit a group of devices with the same programming information, hold the keyboard **CTRL** (Control) key down while positioning the mouse pointer in the far left column next to each device to be selected and clicking the mouse button for each device. All selected addresses will be highlighted. Only the programming fields common to all selected devices will remain visible at the top of the screen. Make the desired changes and click the **Save** button to store all changes in the file.

3.1.7.11 Delete

Clicking on the **Delete** button will remove the device, whose address is currently displayed in the Device Address field, from the program database.

To delete a group of devices, hold the keyboard **CTRL** (Control) key down while positioning the mouse pointer in the far left column next to each device to be selected and clicking the mouse button for each device. All selected addresses will be highlighted. Click on the **Delete** button to remove all of the highlighted devices.

3.1.7.12 Previous

Clicking on the **Previous** button will display the information for the previous device.

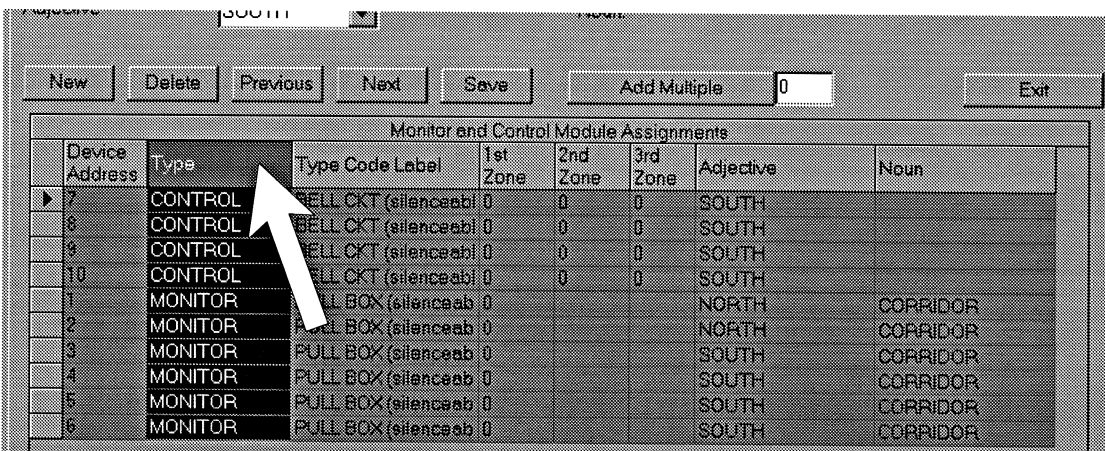
3.1.7.13 Next

Clicking on the **Next** button will display the information for the next device.

3.1.7.14 Sort Modules by Column Heading

A Sort feature has been incorporated into the **Monitor and Control Module Assignments** screen. This feature allows the user to sort the screen entries numerically or alphabetically by Device Address, Type, Type Code Label, Zone, Adjective or Noun.

Position the mouse pointer on the column heading to be sorted (the mouse pointer will turn into a down pointing arrow). Click the mouse button to sort the column. Type has been selected in Figure 3-37 to sort this column alphabetically. If the Device Address Column heading is clicked, the column will be arranged numerically by device address.



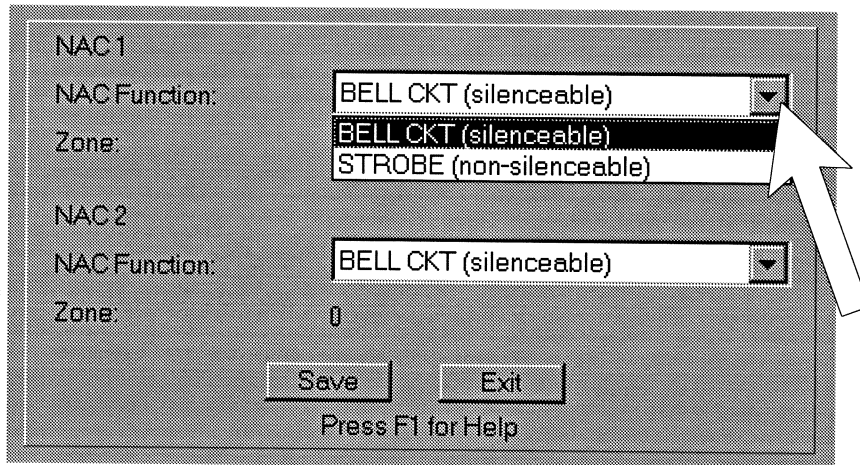
Device Address	Type	Type Code Label	1st Zone	2nd Zone	3rd Zone	Adjective	Noun
7	CONTROL	BELL CKT (silenceabl	0	0	0	SOUTH	
8	CONTROL	BELL CKT (silenceabl	0	0	0	SOUTH	
9	CONTROL	BELL CKT (silenceabl	0	0	0	SOUTH	
10	CONTROL	BELL CKT (silenceabl	0	0	0	SOUTH	
1	MONITOR	PULL BOX (silenceab	0			NORTH	CORRIDOR
2	MONITOR	PULL BOX (silenceab	0			NORTH	CORRIDOR
3	MONITOR	PULL BOX (silenceab	0			SOUTH	CORRIDOR
4	MONITOR	PULL BOX (silenceab	0			SOUTH	CORRIDOR
5	MONITOR	PULL BOX (silenceab	0			SOUTH	CORRIDOR
6	MONITOR	PULL BOX (silenceab	0			SOUTH	CORRIDOR

Figure 3-37: Sorting Modules

3.1.8 NAC Assignments

Clicking on **NAC Assignments** in the Main Menu screen will display the screen shown in Figure 3-38. The **NAC Assignments** screen is used to program the two Notification Appliance Circuits located on the MS-9200 main circuit board. Note that each circuit is fixed at Zone 0 and cannot be changed.

NAC1 and NAC2 may be individually programmed as a Bell Circuit (silenceable) or Strobe Circuit (non-silenceable) by clicking on the text block arrow which will cause a drop-down box to appear as shown in figure 3-38. Click on the desired choice to program each circuit and then click the **Save** button to enter the selections into the program file. Click on the **Exit** button to return to the Main Menu.



The screenshot displays the 'NAC Assignments' screen. It is divided into two sections for 'NAC 1' and 'NAC 2'. For NAC 1, the 'NAC Function:' dropdown is open, showing 'BELL CKT (silenceable)' as the selected option, with 'BELL CKT (silenceable)' and 'STROBE (non-silenceable)' as visible choices. The 'Zone:' for NAC 1 is not explicitly shown but is implied to be 0. For NAC 2, the 'NAC Function:' dropdown is set to 'BELL CKT (silenceable)' and the 'Zone:' is explicitly set to '0'. At the bottom, there are 'Save' and 'Exit' buttons, and a note that says 'Press F1 for Help'.

Figure 3-38: NAC Assignments

CHAPTER 4

4.0 Graphic Style Setup

The **Graphic Style Setup** screen is a versatile programming tool which provides the user with the following options:

- provides a graphic representation of all programmed detectors, monitor modules and control modules
- provides the user with the ability to alter the program file by adding new devices or deleting devices that already exist
- allows editing of existing devices
- allows the user to view devices by zone and type
- provides a simulate feature which indicates device to device programming

Clicking on the **Graphic Style Setup** button in the Main Menu screen will cause the screen shown in Figure 4-1 to be displayed. This screen graphically displays the existing addressable devices and provides the means to edit and test the programming. In this example, photoelectric detectors are installed at addresses 01 to 04, ionization detectors are installed at addresses 05 to 10 and photoelectric detectors with heat sensors are installed at addresses 11 to 14. Monitor modules are installed at addresses 01 to 06 and control modules are installed at addresses 07 to 13.

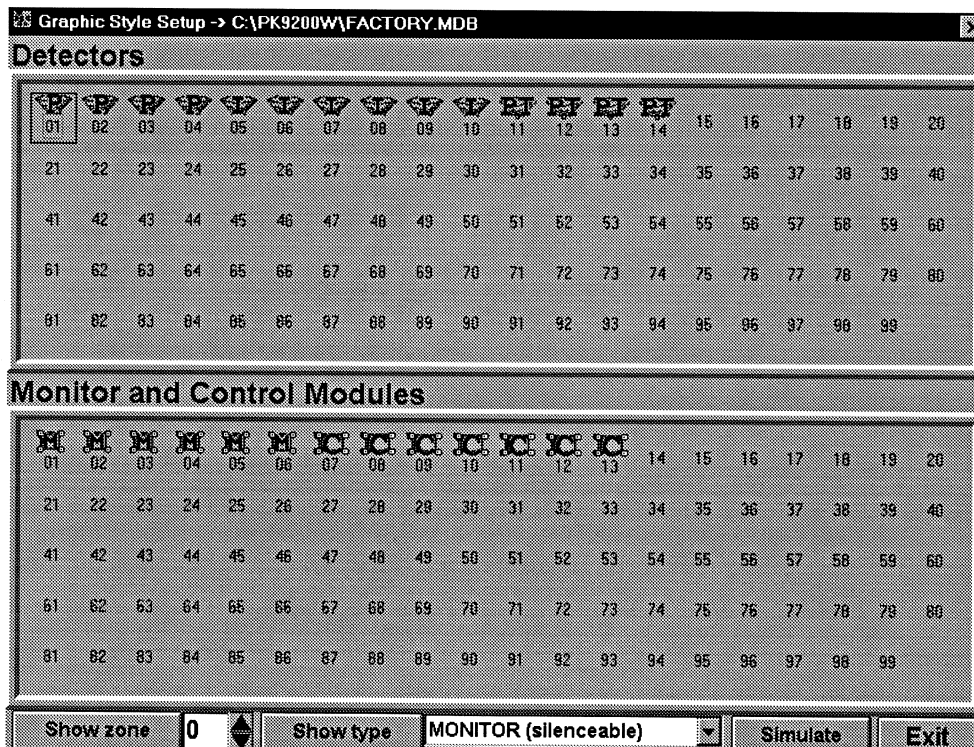


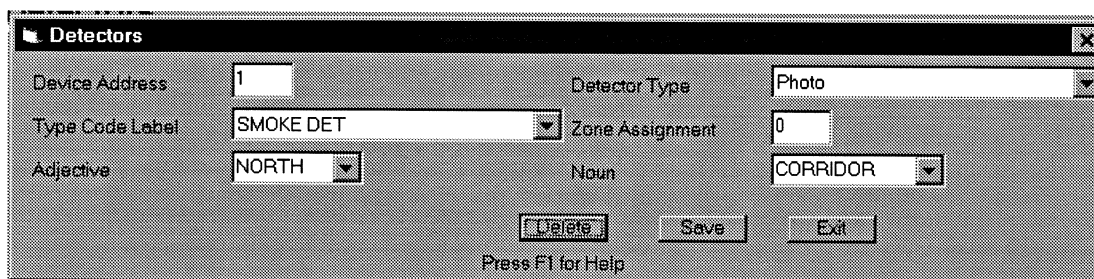
Figure 4-1: Graphic Style Setup Screen

4.0.1 Device Editing

The **Graphic Style Setup** screen displays all previously programmed devices. This screen allows the editing of individual devices. To edit the programming for a detector, position the mouse pointer on the desired device and click. The screen shown in Figure 4-2 will appear. The Device Type, Type Code Label, Zone Assignment, Adjective and Noun may be changed by clicking on the appropriate text block and selecting from the choices presented in the corresponding drop-down box. Refer to Section 3.1.6 for detailed information on making these selections.

After device editing is completed, click on the **Save** button to store the new information in the program file and then click on the **Exit** button to return to the **Graphic Style Setup** screen. Clicking on the **Exit** button before the **Save** button will return to the **Graphic Style Setup** screen without saving the new program information.

Clicking on the **Delete** button followed by the **Save** button will remove the device from the program file.

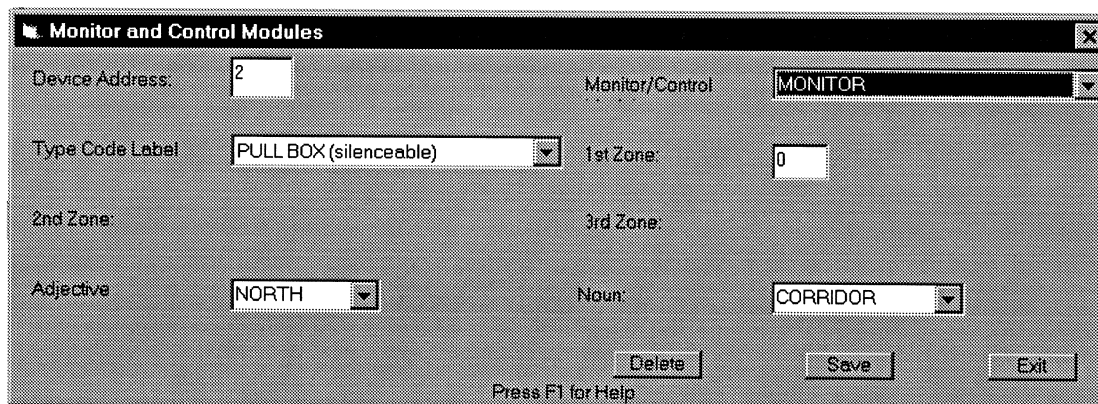


The screenshot shows a window titled "Detectors" with a close button (X) in the top right corner. The window contains the following fields and controls:

- Device Address:** A text box containing the number "1".
- Detector Type:** A drop-down menu showing "Photo".
- Type Code Label:** A drop-down menu showing "SMOKE DET".
- Zone Assignment:** A text box containing the number "0".
- Adjective:** A drop-down menu showing "NORTH".
- Noun:** A drop-down menu showing "CORRIDOR".
- Buttons:** "Delete", "Save", and "Exit" buttons are located at the bottom.
- Help:** The text "Press F1 for Help" is at the bottom center.

Figure 4-2: Detector Editing

To edit the programming for a monitor or control module, click on the module which is to be edited. The screen shown in Figure 4-3 will appear. Follow the same procedure as previously outlined for detectors. Refer to Section 3.1.7 for detailed information on making selections for modules.



The screenshot shows a window titled "Monitor and Control Modules" with a close button (X) in the top right corner. The window contains the following fields and controls:

- Device Address:** A text box containing the number "2".
- Monitor/Control:** A drop-down menu showing "MONITOR".
- Type Code Label:** A drop-down menu showing "PULL BOX (silenceable)".
- 1st Zone:** A text box containing the number "0".
- 2nd Zone:** A text box (empty).
- 3rd Zone:** A text box (empty).
- Adjective:** A drop-down menu showing "NORTH".
- Noun:** A drop-down menu showing "CORRIDOR".
- Buttons:** "Delete", "Save", and "Exit" buttons are located at the bottom.
- Help:** The text "Press F1 for Help" is at the bottom center.

Figure 4-3: Module Editing

4.0.2 Adding New Devices

The **Graphic Style Setup** screen allows the user to easily add new devices to the program file. A device selection box appears around the selected device address as shown in Figure 4-4. To add a detector, use the left and right arrow keys on the keyboard to position the selection box around the unused address to be programmed. To add the following detector, press the corresponding key:

- P = Photoelectric Detector
- I = Ionization Detector
- T = Photo Detector with Heat Sensor

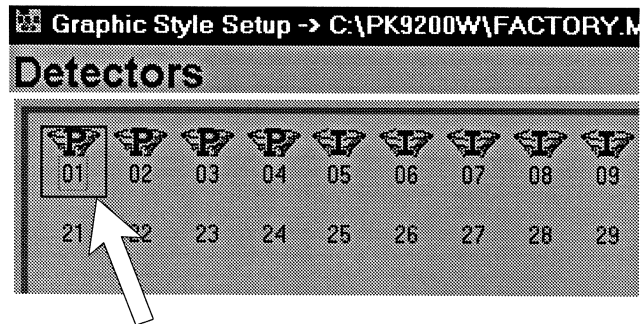


Figure 4-4: Device Selection

All new devices are programmed to default zone zero (0). To alter the zone and add adjective and noun information, it is necessary to edit each device as outlined in Section 4.0.1.

The program provides an easy method of adding multiple devices with identical programming. The first new device should be added and edited as described above. Identical devices may now be added by clicking on the address where the device is to be installed. An alternate keyboard method involves positioning the selection box around the desired address and pressing the Enter key.

To add new modules to the program file, position the selection box in the Monitor and Control Modules section of the **Graphic Style Setup** screen by pressing the Page Down key (PgDn) on the keyboard. Use the left and right arrow keys to position the selection box around the unused address to be programmed. To add the following modules, press the corresponding key:

- M = Monitor
- C = Control

To edit module programming, use the same procedure as described for detectors.

4.0.3 Deleting Devices

Position the selection box, as described above, around the device to be deleted and press the keyboard Delete key to remove the device.

4.0.4 Show Zone

The button labeled **Show Zone** allows the user to view all devices programmed to the same zone. A text box to the right of the **Show Zone** button is used to select the zone to be viewed. Double click in the text box and type the zone number or use the Up/Down arrow buttons to the right of the box to scroll through the numbers. Valid zone numbers are 00 through 56. After selecting the desired zone number, click on the **Show Zone** button. The Graphic Style Setup screen will highlight all the addressable devices that are programmed to the selected zone as illustrated in Figure 4-5.

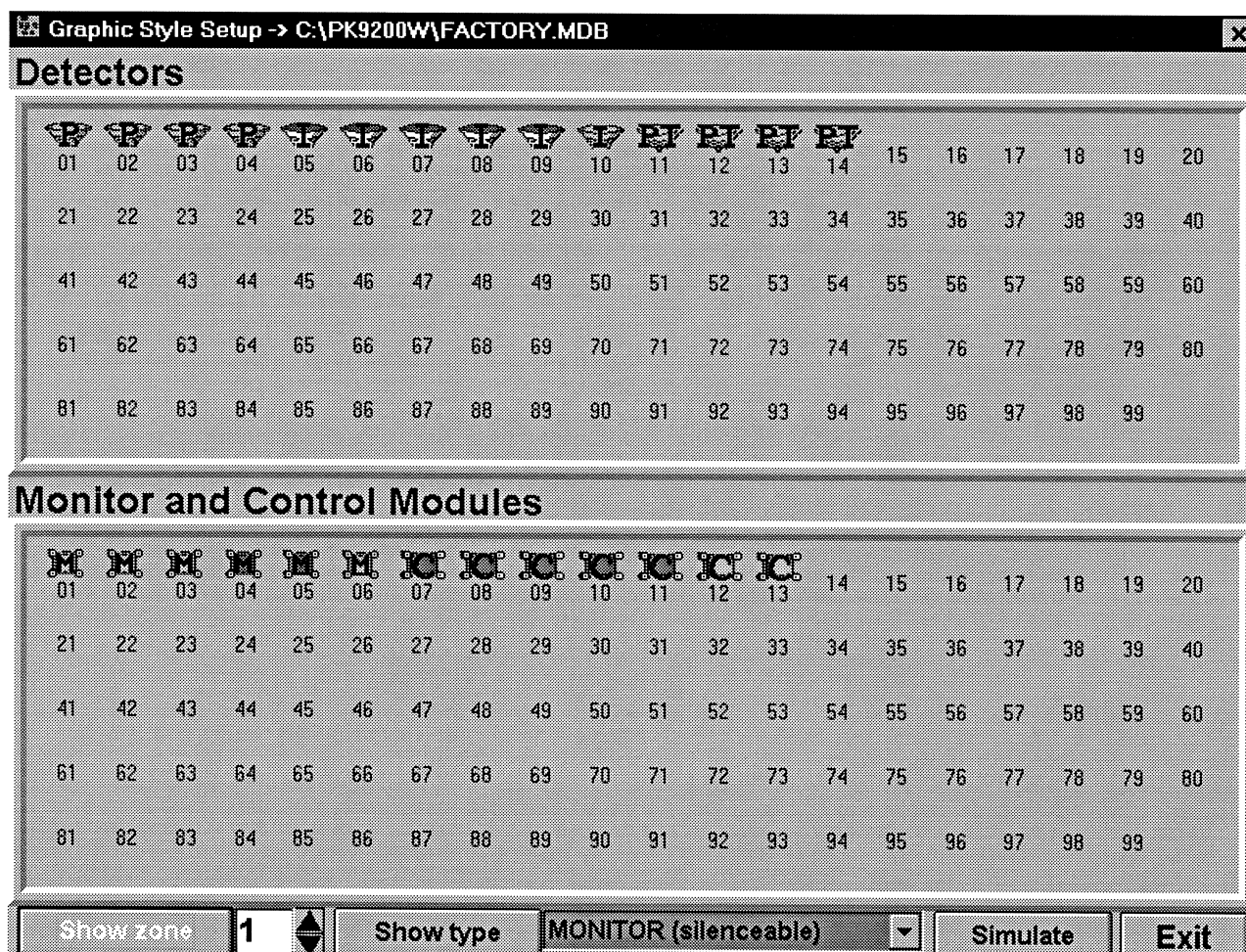


Figure 4-5: Sort By Zone

In Figure 4-5, Zone 1 has been selected in the text box to the right of the **Show Zone** button. Clicking on the Show Zone button causes the screen to highlight all devices that are programmed to Zone 1. In this example, ionization detectors at addresses 5 through 9, monitor modules at addresses 4 through 5 and control modules at addresses 7 through 11 have been highlighted indicating that they are all programmed to Zone 1.

4.0.5 Show Type

The button labeled **Show Type** allows the user to graphically view all modules which are programmed as the same type. A text block to the right of the **Show Type** button is used to select the module type to be viewed. Clicking on the down arrow on the right of the text block causes a drop-down box to appear as shown in Figure 4-6. Select the type to be displayed by clicking on it. In this example, PULL BOX (silenceable) has been selected. Clicking on the **Show Type** button will now cause the **Graphic Style Setup** screen to highlight all monitor modules which have been programmed as this type. In this illustration, monitor modules located at addresses 01, 02, 04 and 05 are highlighted, indicating that each has been programmed as a pull box (manual station).

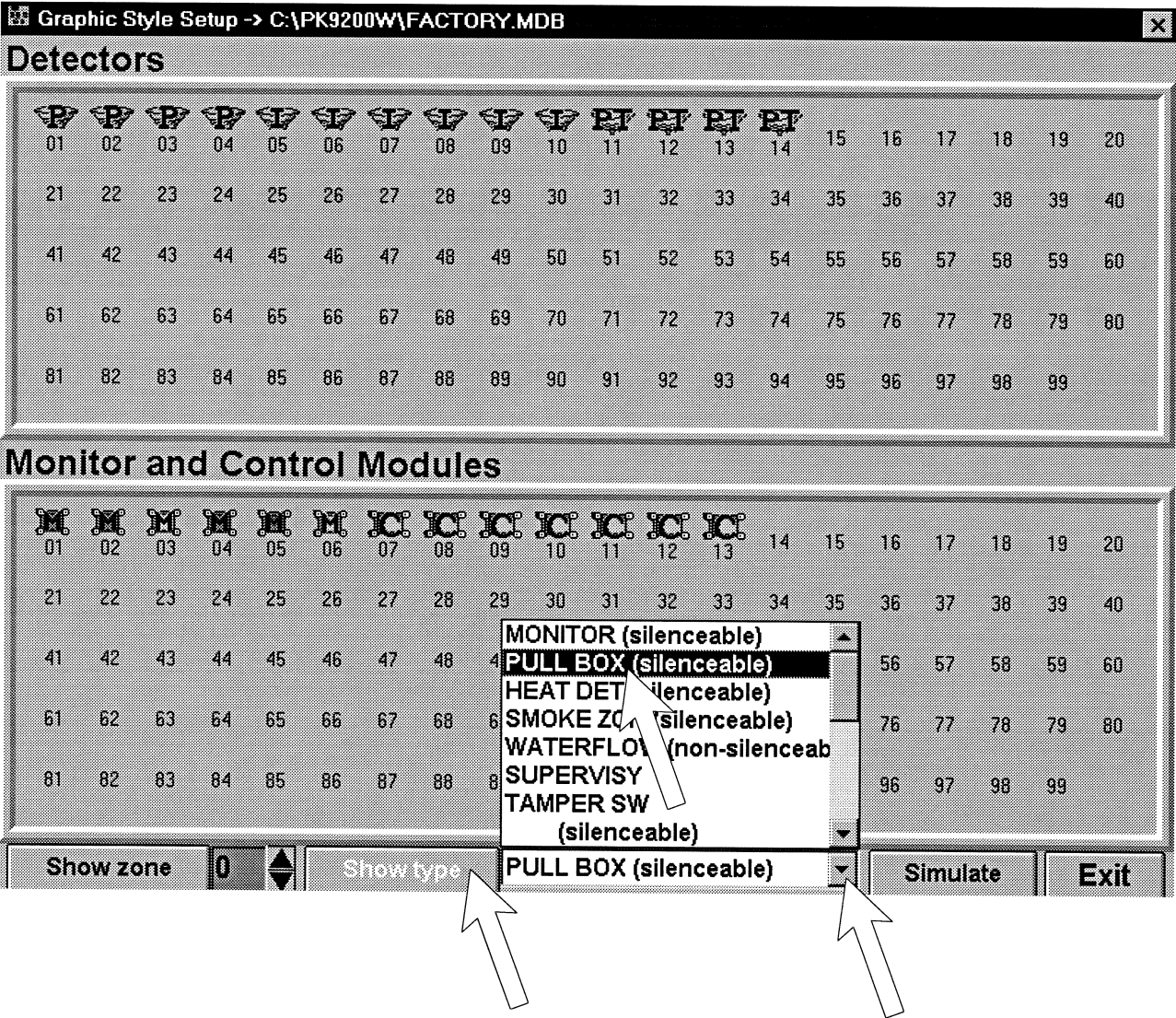


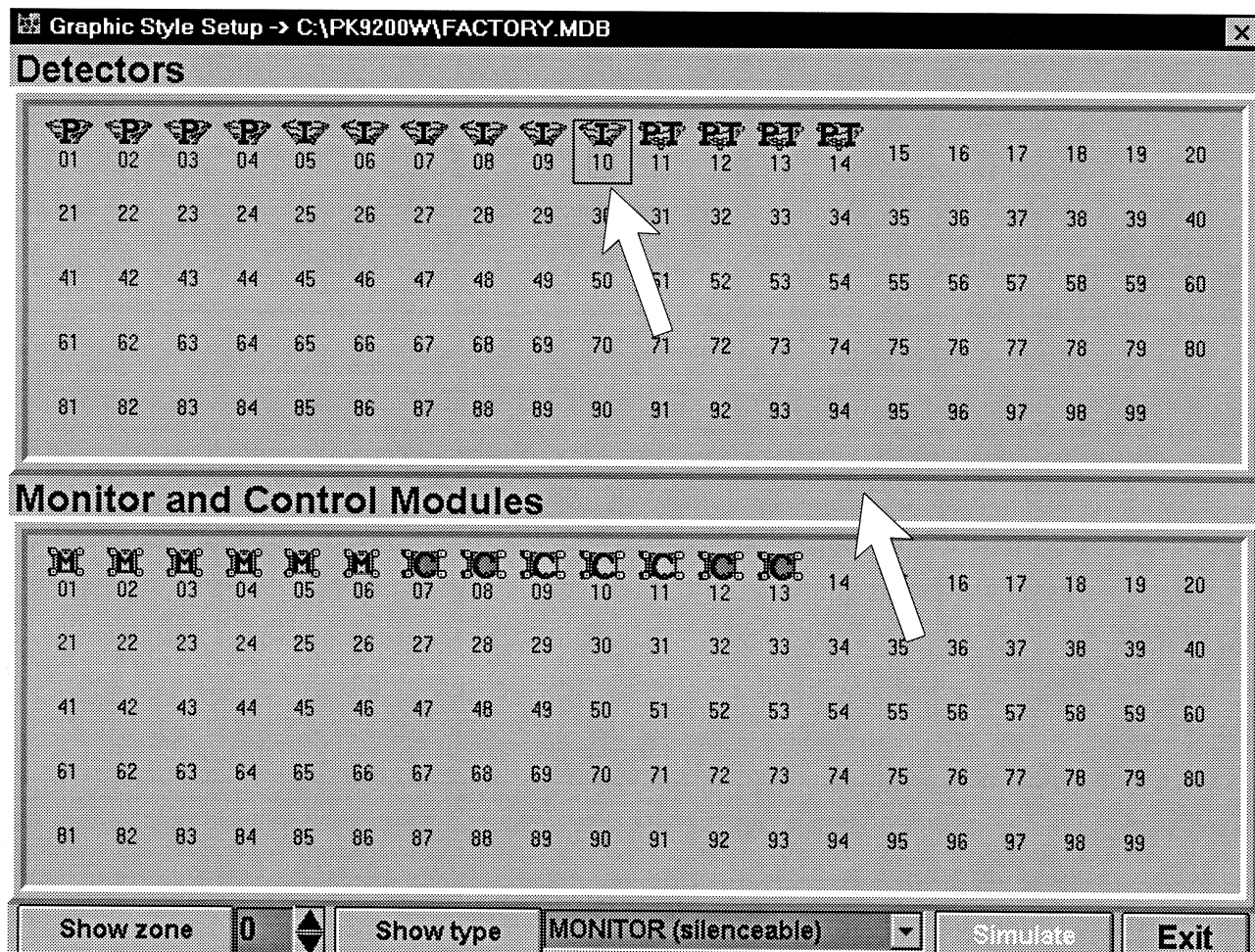
Figure 4-6: Sort By Type

4.0.6 Simulate

The **Simulate** feature provides a convenient tool for the programmer to determine if zoning correlation have been programmed correctly. The button labeled **Simulate** allows the user to graphically view the input or output correlation for each programmed device.

Using the left and right arrow keys on the keyboard, position the selection box around a device to be tested. In Figure 4-7, the selection box has been positioned around the ionization detector located at address 10. Clicking on the **Simulate** button will cause all control modules (output devices), which are correlated to the detector at address 10, to be highlighted. In Figure 4-7, the control modules at addresses 7, 8, 12 and 13 are highlighted, indicating that they will activate when the ionization detector at address 10 alarms.

The **Simulate** feature can also be used to determine which inputs are correlated to a particular output. Position the selection box around the control module (output device) to be tested and click on the **Simulate** button. All input devices which will cause the selected control module to activate will be highlighted.



*Note: If a control module is selected with no inputs assigned to it, the message "NO INPUT DEVICES ASSIGNED TO OUTPUT" will appear in the space next to the **Monitor and Control Modules** label as indicated by arrow.*

Figure 4-7: Simulate

CHAPTER 5

5.0 Tabular Style Setup

The **Tabular Style Setup** screen provides another potent programming tool which combines the features found in previous screens. By providing various means to edit and verify programming, the goal is to allow the user to select the tools which make the task of programming easier. The **Tabular Style Setup** screen incorporates the following features:

- ✓ a database representation of all programmed detectors, monitor and control modules and main circuit board Notification Appliance Circuits separated into three color coded areas
- ✓ the ability to alter the program file by adding new devices or deleting devices that already exist
- ✓ editing of existing devices
- ✓ editing of main circuit board NACs
- ✓ sort devices by address, type, type code label (function), zone, adjective or noun
- ✓ provides a simulate feature which indicates device to device programming
- ✓ print all programming data or only selected portions

Clicking on the **Tabular Style Setup** button in the Main Menu screen shown in Figure 5-1, will cause the screen shown in Figure 5-2 to be displayed.

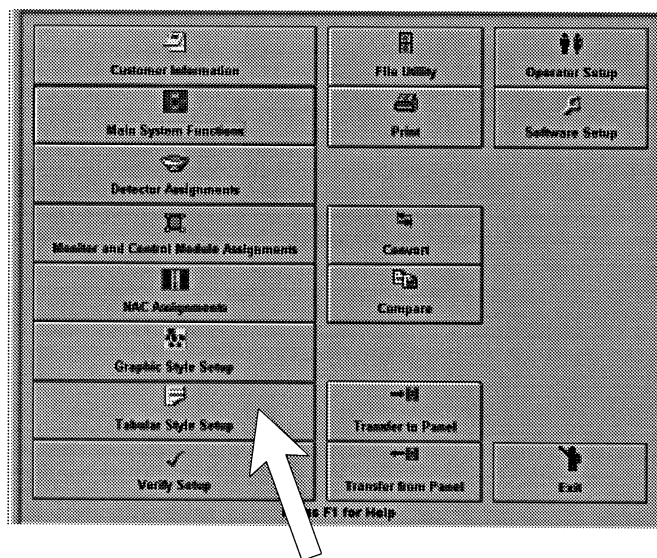


Figure 5-1: Main Menu

The screen in Figure 5-2 shows the existing addressable devices in a database format and provides the means to edit and test the programming. The screen is divided into three sections:

- Detector Assignments
- Monitor and Control Module Assignments
- NAC Assignments

Each section is color-coded to correspond with the Detectors, Modules and NAC buttons at the bottom of the screen. Additional devices can be viewed in the Detector Assignments and Monitor and Control Module Assignments sections by clicking on the Up or Down arrow on the scroll bars to the right.

Detector Assignments							
Device Address	Type	Type Code Label	Zone			Adjective	Noun
1	Photo	SMOKE DET	0			NORTH	CORRIDOR
2	Photo	SMOKE DET	0			NORTH	CORRIDOR
3	Photo	SMOKE DET	0			NORTH	CORRIDOR
4	Photo	SMOKE DET	0			NORTH	CORRIDOR
5	Ion	SMOKE DET	1			SOUTH	CORRIDOR
6	Ion	SMOKE DET	1			SOUTH	CORRIDOR
7	Ion	SMOKE DET	1			SOUTH	CORRIDOR

Monitor and Control Module Assignments							
Device Address	Type	Type Code Label	1st Zone	2nd Zone	3rd Zone	Adjective	Noun
1	MONITOR	PULL BOX (silenc	0			NORTH	CORRIDOR
2	MONITOR	PULL BOX (silenc	0			NORTH	CORRIDOR
3	MONITOR	PULL BOX (silenc	0			SOUTH	CORRIDOR
4	MONITOR	PULL BOX (silenc	0			SOUTH	CORRIDOR
5	MONITOR	PULL BOX (silenc	0			SOUTH	CORRIDOR
6	MONITOR	PULL BOX (silenc	0			SOUTH	CORRIDOR
7	CONTROL	BELL CKT (silenc	0	0	0	SOUTH	CORRIDOR

NAC Assignments							
	Type	Function	Zone			Adjective	Noun
	NAC	STROBE (non-sil	0			NONE	GEN. ALAR
	NAC	BELL CKT (silenc	0			NONE	GEN. ALAR

Detectors Modules NAC Simulate Print Exit

Press F1 for Help

Figure 5-2: Tabular Style Setup Screen

5.0.1 Sort by Column Heading

A Sort feature has been incorporated into the Tabular Style Setup screen. This feature allows the user to sort the screen entries numerically or alphabetically by Device Address, Type, Type Code Label, Zone, Adjective or Noun.

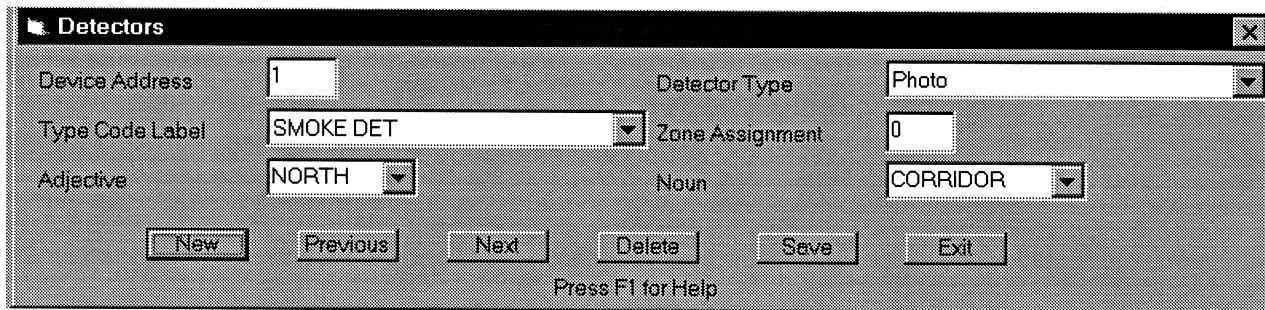
Position the mouse pointer on the column heading to be sorted (the mouse pointer will turn into a down pointing arrow). Click the mouse button to sort the column. For example, if the Device Address Column heading is clicked, the column will be arranged numerically by device address. Clicking on the Type column will arrange the entries alphabetically by device type.

5.0.2 Edit Existing Device

The **Tabular Style Setup** screen displays all previously programmed devices. This screen allows the editing of individual devices. To edit the programming for a detector, position the mouse pointer in the far left column next to the Device Address to be edited and double click the mouse button. The screen shown in Figure 5-3 will appear. The Device Type, Type Code Label, Zone Assignment, Adjective and Noun may be changed by clicking on the appropriate text block and selecting from the choices presented in the corresponding drop-down box. Refer to Section 3.1.6 for detailed information on making these selections.

After device editing is completed, click on the **Save** button to store the new information in the program file and then click on the **Exit** button to return to the **Tabular Style Setup** screen. Clicking on the **Exit** button before the **Save** button will return to the **Tabular Style Setup** screen without saving the new program information.

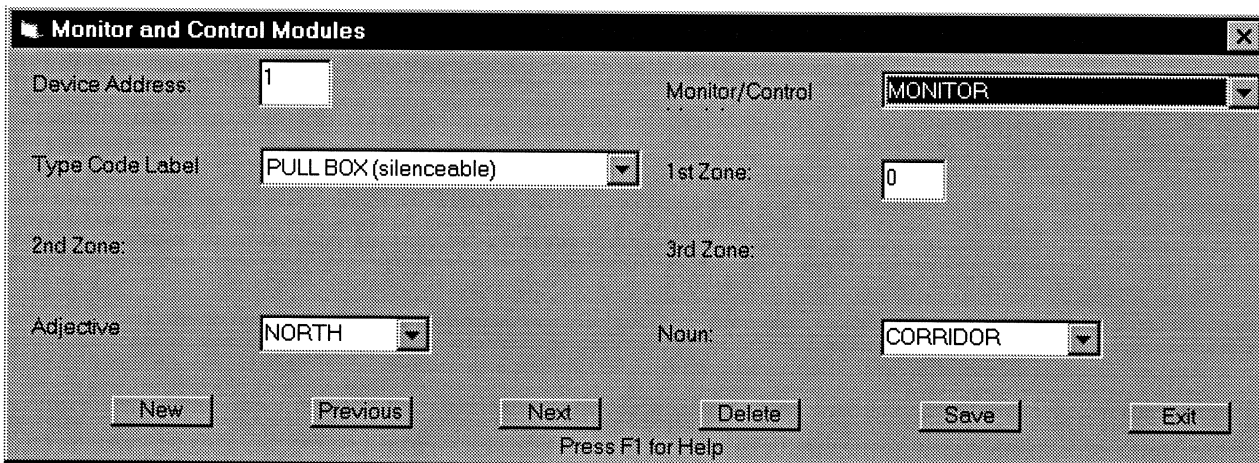
Clicking on the **Delete** button followed by the **Save** button will remove the device from the program file.



The screenshot shows a window titled "Detectors" with a close button (X) in the top right corner. Inside the window, there are several fields and buttons. On the left, there is a "Device Address" field with the value "1". To its right is a "Detector Type" dropdown menu showing "Photo". Below "Device Address" is a "Type Code Label" dropdown menu showing "SMOKE DET". To its right is a "Zone Assignment" field with the value "0". Below "Type Code Label" is an "Adjective" dropdown menu showing "NORTH". To its right is a "Noun" dropdown menu showing "CORRIDOR". At the bottom of the window, there are six buttons: "New", "Previous", "Next", "Delete", "Save", and "Exit". Below these buttons is the text "Press F1 for Help".

Figure 5-3: Detector Setup Screen

To edit the programming for a monitor or control module, position the mouse pointer in the far left column next to the Device Address to be edited and double click the mouse button. The screen shown in Figure 5-4 will appear. Follow the same procedure as previously outlined for detectors. Refer to Section 3.1.7 for detailed information on making selections for modules.



The screenshot shows a window titled "Monitor and Control Modules" with a close button (X) in the top right corner. Inside the window, there are several fields and buttons. On the left, there is a "Device Address" field with the value "1". To its right is a "Monitor/Control" dropdown menu showing "MONITOR". Below "Device Address" is a "Type Code Label" dropdown menu showing "PULL BOX (silenceable)". To its right is a "1st Zone" field with the value "0". Below "Type Code Label" is a "2nd Zone" field. To its right is a "3rd Zone" field. Below "2nd Zone" is an "Adjective" dropdown menu showing "NORTH". To its right is a "Noun" dropdown menu showing "CORRIDOR". At the bottom of the window, there are six buttons: "New", "Previous", "Next", "Delete", "Save", and "Exit". Below these buttons is the text "Press F1 for Help".

Figure 5-4: Module Setup Screen

5.0.4 Add New Device

The **Tabular Style Setup** screen allows the user to add new devices to the program file. The **Detectors** and **Modules** buttons at the bottom of the screen are used for this purpose. These buttons are color-coded to the corresponding Detector and Module screen. Clicking on the **Detectors** button will cause the screen shown in Figure 5-3 to appear. Clicking on the **New** button will cause the number in the Device Address field to change to the next available device address. The Device Type, Type Code Label, Zone Assignment, Adjective and Noun may now be changed by clicking on the appropriate text block and selecting from the choices presented in the corresponding drop-down box. Refer to Section 3.1.6 for detailed information on making these selections.

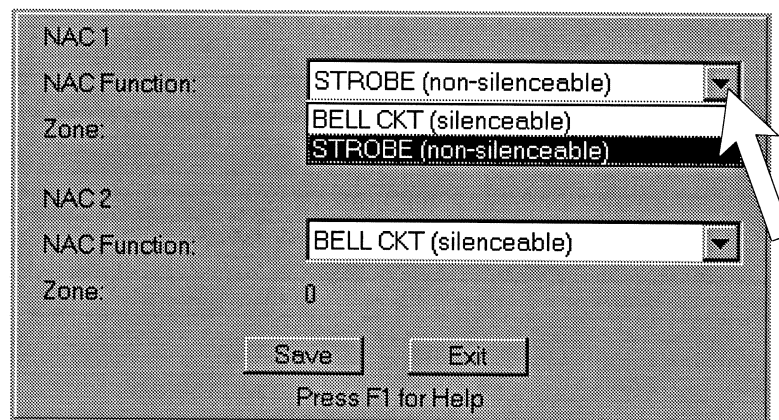
After device editing is completed, click on the **Save** button to store the new information in the program file and then click on the **Exit** button to return to the **Tabular Style Setup** screen. Clicking on the **Exit** button before the **Save** button will return to the **Tabular Style Setup** screen without saving the new program information.

Clicking on the **Delete** button will remove the device from the program file.

Clicking on the **Modules** button will cause the screen shown in Figure 5-4 to appear. Follow the same procedure as previously outlined for detectors. Refer to Section 3.1.7 for detailed information on making selections for modules.

5.0.5 NAC Setup

The **Tabular Style Setup** screen allows the user to edit the MS-9200 main circuit board Notification Appliance Circuits. The two NACs can be configured as Bell Circuits (silenceable) or Strobe Circuits (nonsilenceable). Clicking on the **NAC** button at the bottom of the **Tabular Style Setup** screen will cause the screen shown in Figure 5-5 to appear. Clicking on the arrow to the right of the text blocks will display a drop-down box with the two available NAC choices. Click on one of the choices and then click on the **Save** button to store the changes in the program file. Click on the **Exit** button to return to the **Tabular Style Setup** screen.



The screenshot shows a window titled "NAC Setup". It contains two sections for NAC 1 and NAC 2. For NAC 1, the "NAC Function:" dropdown is set to "STROBE (non-silenceable)" and the "Zone:" dropdown is set to "BELL CKT (silenceable)". For NAC 2, the "NAC Function:" dropdown is set to "BELL CKT (silenceable)" and the "Zone:" is set to "0". At the bottom, there are "Save" and "Exit" buttons, and a note "Press F1 for Help". A white arrow points to the dropdown arrow of the NAC 1 "NAC Function:" field.

NAC	NAC Function	Zone
NAC 1	STROBE (non-silenceable)	BELL CKT (silenceable)
NAC 2	BELL CKT (silenceable)	0

Save Exit

Press F1 for Help

Figure 5-5: NAC Setup Screen

5.0.6 Simulate

The **Tabular Style Setup** screen allows the user to simulate device activation in order to view zoning correlations of input and output devices. To view the output devices (control modules) that are zoned to a particular input device (detector or monitor module), position the mouse pointer in the far left column next to the Device Address to be tested. The mouse pointer will change to a right pointing arrow. Click the mouse button to highlight the selected address. Click on the **Simulate** button to highlight all output devices that are zoned to the selected address.

In Figure 5-6, Detector Device Address 1 has been selected for testing. Clicking on the **Simulate** button caused Control Module addresses 7, 8, 12 and 13 to be highlighted, indicating that they are programmed to activate when the detector at address 1 alarms. Note that in most cases, it will be necessary to scroll through the list of devices to view all devices that have been highlighted. This can be accomplished by clicking on the Up or Down arrow located on the scroll bars to the far right of the screen.

Output devices (control modules) can also be simulated to view the input devices (detectors and monitor modules) which are correlated to them. Click on the control module address to be tested and then click the **Simulate** button to view the input devices which will cause the device to activate.

Note that the NAC Assignments screen will not be highlighted for any simulation since all input devices, regardless of zoning, will always activate the two main circuit board Notification Appliance Circuits on the MS-9200.

Detector Assignments							
Device Address	Type	Type Code Label	Zone			Adjective	Noun
1	Photo	SMOKE DET	0			NORTH	CORRIDOR
2	Photo	SMOKE DET	0			NORTH	CORRIDOR
3	Photo	SMOKE DET	0			NORTH	CORRIDOR
4	Photo	SMOKE DET	1			NORTH	CORRIDOR
5	Ion	SMOKE DET	1			SOUTH	CORRIDOR
6	Ion	SMOKE DET	1			SOUTH	CORRIDOR
7							

Monitor and Control Module Assignments							
Device Address	Type	Type Code Label	1st Zone	2nd Zone	3rd Zone	Adjective	Noun
7	CONTROL	BELL CKT (silenc	0	1	0	SOUTH	
8	CONTROL	BELL CKT (silenc	0	1	0	SOUTH	
9	CONTROL	BELL CKT (silenc	1	2	3	SOUTH	
10	CONTROL	BELL CKT (silenc	1	2	3	SOUTH	
11	CONTROL	CONTROL (silenc	1	2	3		
12	CONTROL	CONTROL	0	0	0		
13	CONTROL	CONTROL (silenc	0	0	0		

NAC Assignments							
	Type	Function	Zone			Adjective	Noun
	NAC	STROBE (non-sil	0			NONE	GEN. ALAR
	NAC	BELL CKT (silenc	0			NONE	GEN. ALAR

Detector Modules NAC **Simulate** Print Selected Exit

Press F1 for Help

Figure 5-6: Simulate

5.0.7 Print

The **Print** button allows the user to print the entire list of devices and their programming as displayed in the **Tabular Setup** screen or a selection of devices (except the two main circuit board NACs). To print the entire program list, click on the **Print** button. To print selected devices from the program list, select the devices to print by positioning the mouse pointer in the far left column next to the device address to be selected. The mouse pointer will change to a right pointing arrow. Hold the Control (CTRL) key down and click the mouse button for each device to be selected. Click the **Print** button to print the selected items.

After the **Print** button is clicked for either print option, a Notepad screen will be displayed as illustrated in Figure 5-7. The Notepad screen may be minimized, so if the screen is not visible, hold the keyboard ALT key down and press the TAB key to maximize the Notepad screen. Click on **File** in the Notepad screen and then click on **Print** in the drop-down box which appears.

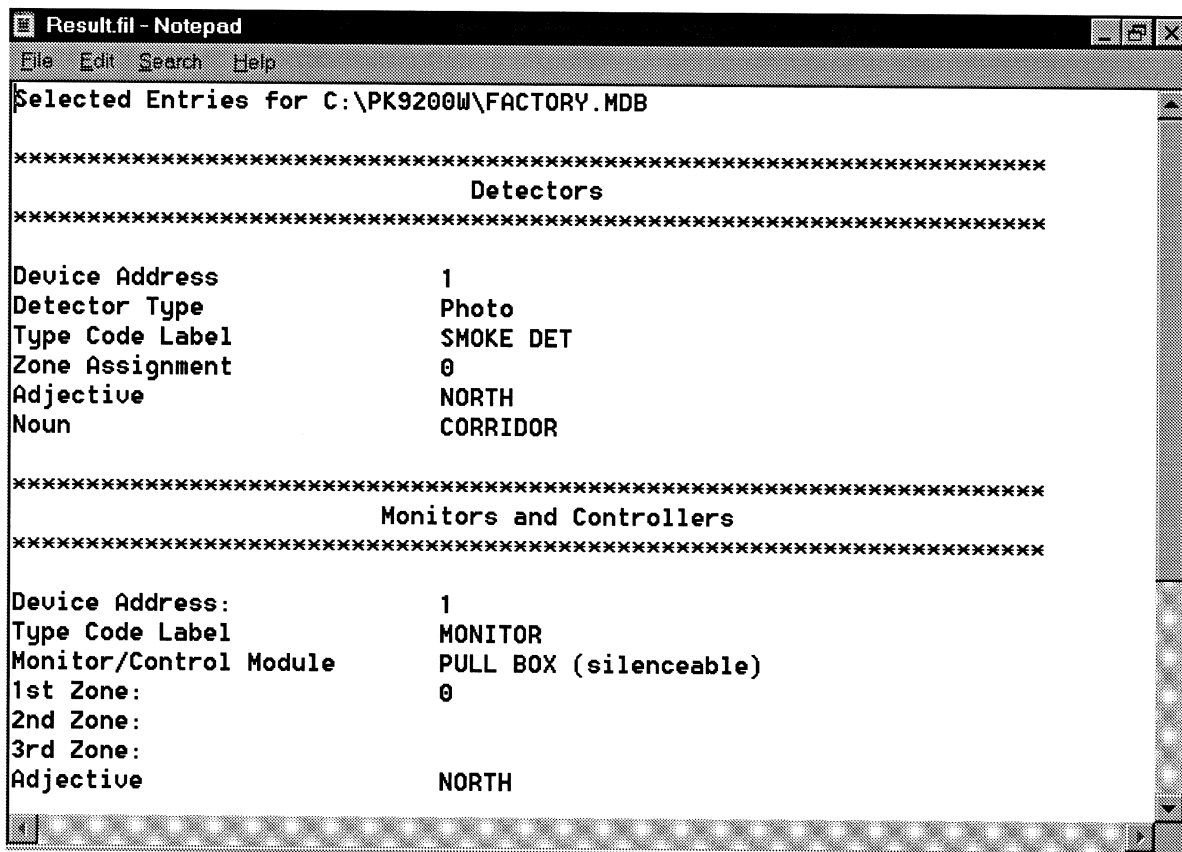


Figure 5-7: Notepad Screen for Print Option

CHAPTER 6

6.0 Verify Setup

The **Verify Setup** option allows the user to test the program file for programming errors. These errors can include having an output device defined without any inputs programmed to activate it. If no errors are detected, the screen shown in Figure 6-1 will appear. Clicking on the **OK** button will return to the Main Menu.

If programming errors are detected, the screen shown in Figure 6-2 will appear. Clicking on the **OK** button will cause a Notepad screen to appear with a list of the errors as illustrated in Figure 6-3. The list can be printed by clicking on **File** at the top of the Notepad screen and then clicking on **Print** from the drop-down box which appears. With the error printout, the programmer can return to one of the PK-9200W editing screens to correct the errors.

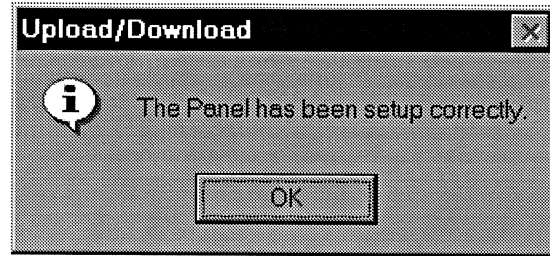


Figure 6-1: Verify - Program OK

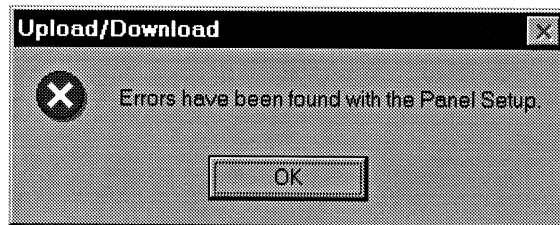


Figure 6-2: Verify - Program Error

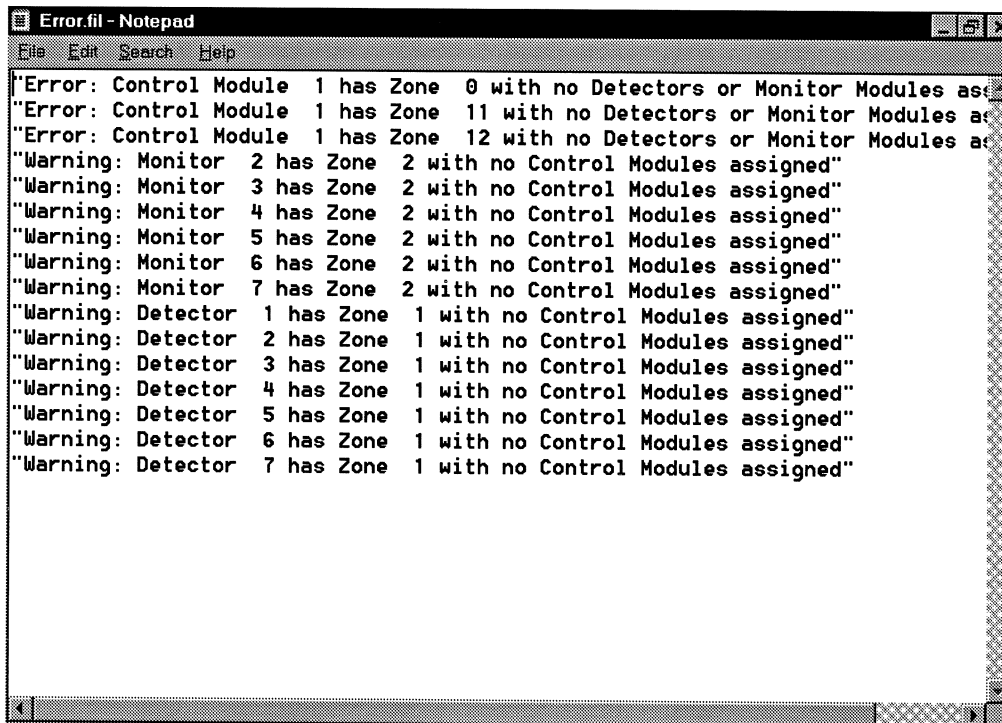


Figure 6-3: Verify Errors Detected

CHAPTER 7

7.0 Print

The **Print** option allows the user to print the entire contents from an existing programming file including Main System Functions, Detector Assignments, Monitor and Control Module Assignments and NAC Assignments. Clicking on the **Print** button will cause the pop-up window shown in Figure 7-1 to appear. Clicking on one of the Load buttons and then selecting a specific file to print will cause a Notepad screen to appear containing the programming information for the selected file.

Figure 7-2 shows an example of a Notepad screen. Clicking on **File** at the top of the Notepad screen will cause a drop-down box to appear. Clicking on **Print** in the drop-down box will cause the Notepad file to be printed.

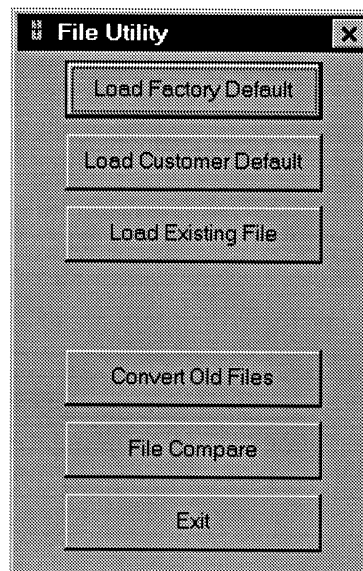


Figure 7-1: Load File

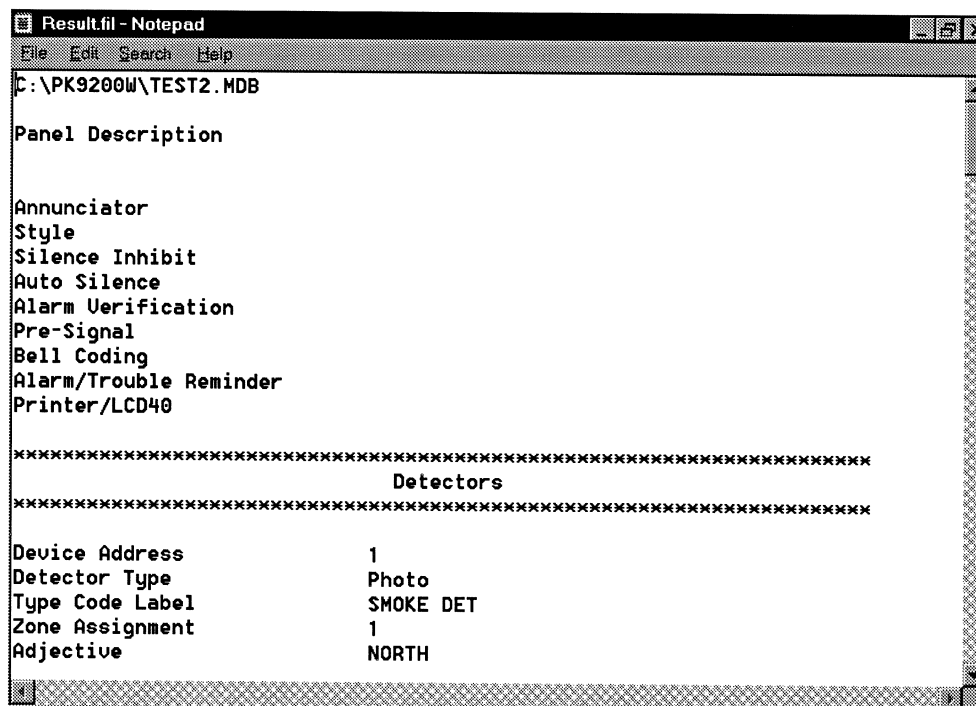


Figure 7-2: Print Notepad

CHAPTER 8

8.0 Convert

The **Convert** option allows the user to convert programming files from the old PK-9200 DOS-based format to the new PK-9200W Windows®-based format. Clicking on the **Convert** button in the Main Menu screen will cause the screen shown in Figure 8-1 to appear. Clicking on the **Select file to convert from** button or clicking in the text block to the right will cause the screen shown in Figure 8-2 to appear. Select the Drive and Directory where the old file is stored. Click on the old file name and then click on the **OK** button to display the file name in the top text block.

Click on the **Select file to convert to** button or click in the text block to the right to display the screen shown in Figure 8-2. Type the new name of the program file in the **File Name** text block and click on the **OK** button to display the new name in the bottom text block.

Click on the **OK** button in the Convert screen to begin the conversion process. The process may take some time depending on the size of the original program file.

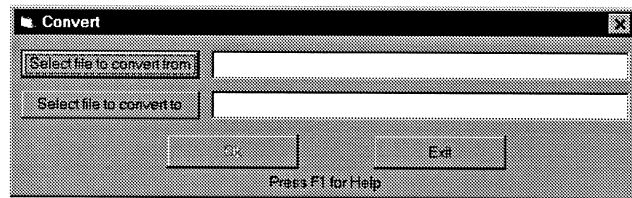


Figure 8-1: Convert Screen

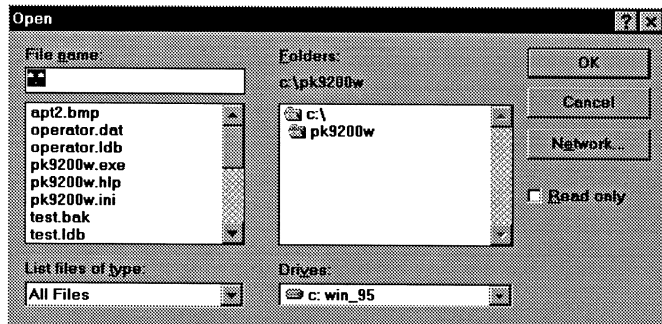


Figure 8-2: File Screen

CHAPTER 9

9.0 Compare

The **Compare** option allows the user to compare the programming of two separate files, side-by-side. Clicking on the **Compare** button in the Main Menu will cause the screen shown in Figure 9-1 to appear. Clicking on the **Select first file to compare** button or clicking in the text block to the right will cause the screen shown in Figure 9-2 to appear. Select the Drive and Directory where the file is stored. Click on the file name and then click on the **OK** button to display the file name in the top text block.

Click on the **Select second file to compare** button or click in the text block to the right to display the screen shown in Figure 9-2. Select the Drive and Directory where the file is stored. Click on the file name and then click on the **OK** button to display the file name in the bottom text block.

Click on the **OK** button in the Compare screen to initiate the compare process. A Notepad screen similar to the one shown in Figure 9-3 will appear, displaying the programming for the two selected files. The scroll bar must be used to view the remainder of the files. The content of the entire compare file can be printed by clicking on **File** in the Notepad screen, which will cause a drop-down box to appear. Clicking on **Print** in the drop-down box will cause the compare file to be printed.

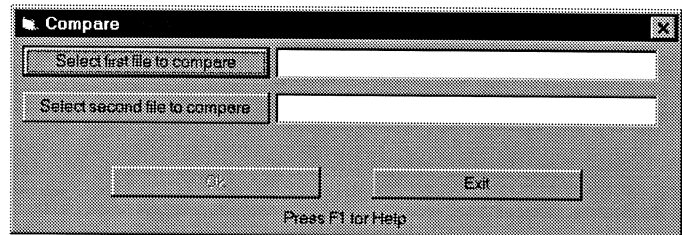


Figure 9-1: Compare Screen

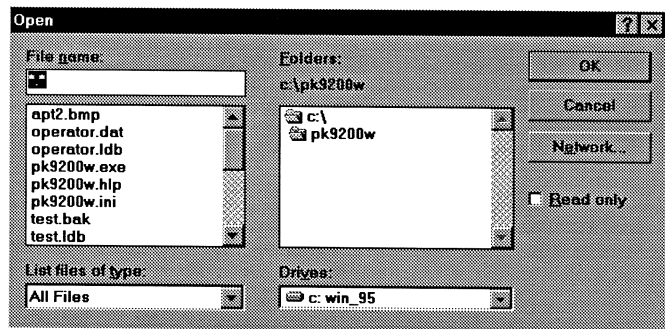


Figure 9-2: File Screen

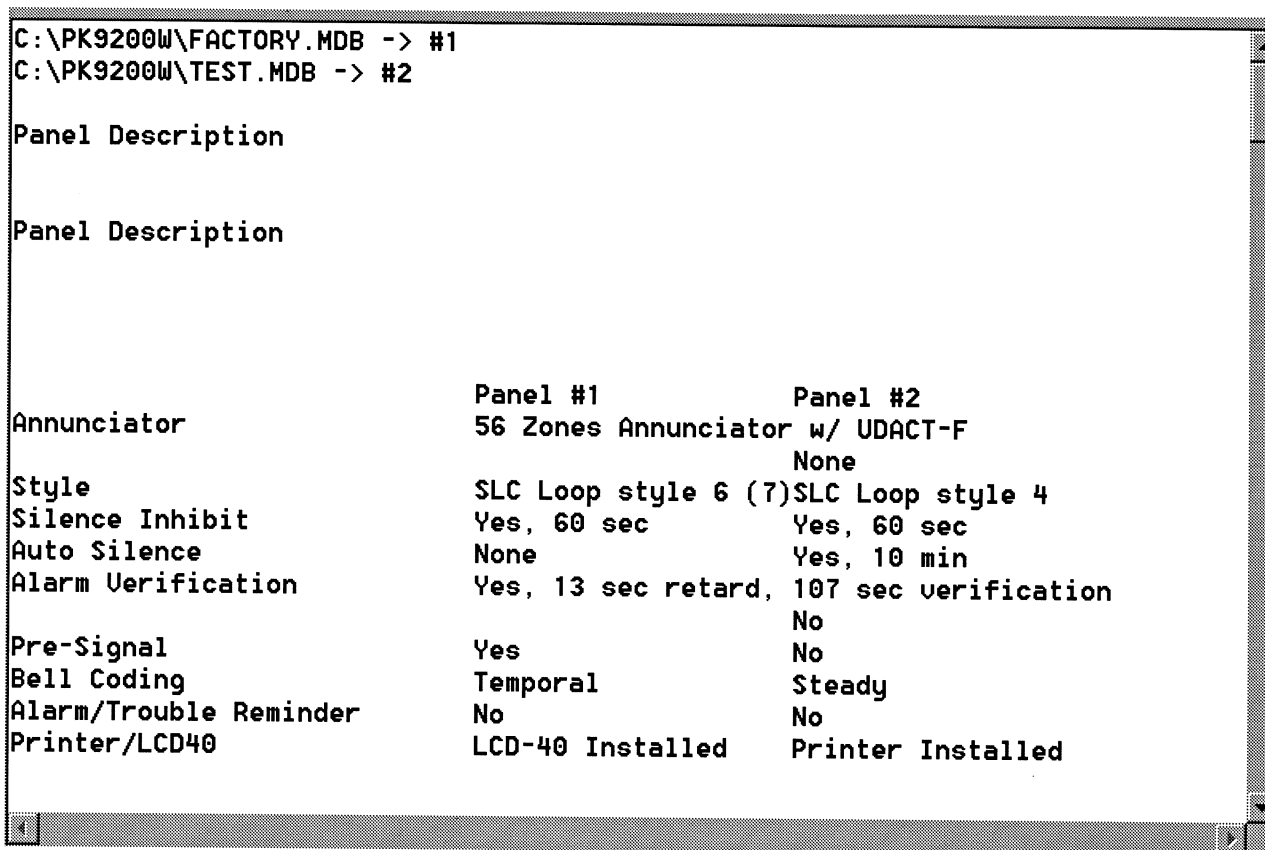


Figure 9-3: Notepad Compare Screen

CHAPTER 10

10.0 Transfer to Panel

The **Transfer to Panel** option allows the programming of the MS-9200 Fire Alarm Control Panel from a PC connected directly to the panel. While the program file was being created or edited, it was not necessary to have the PC connected to the control panel. In order to transfer the program to the control panel, it is now necessary to physically connect the PC and control panel. Refer to Section 2.4 of this manual or refer to the MS-9200 Technical Manual for detailed information on connecting the PC to the control panel.

After confirming the physical connections between the PC and MS-9200 FACP, click on the **Transfer to Panel** button in the Main Menu. If a program file has not yet been loaded, the pop-up window shown in Figure 10-1 will appear prompting that a file be loaded. Click on one of the Load buttons to display the Open dialog screen shown in Figure 10-2. Click on the program file which is to be transferred to the control panel and then click on the **OK** button.

The **Transfer** screen shown in Figure 10-3 will appear. This screen will lead the user through the transfer process by providing a series of prompts along the way. These prompts will appear in the text window on the left side of this screen.

When the transfer begins, a counter will increment in the space above the **Previous** and **Next** buttons indicating that the transfer is taking place.

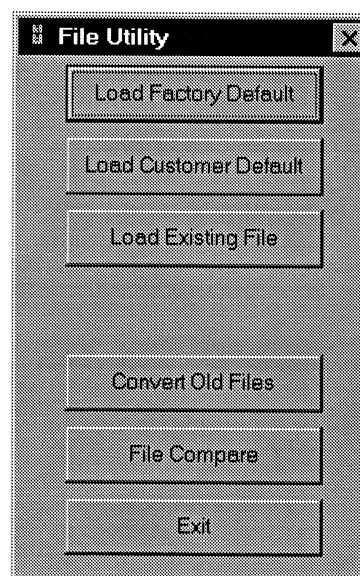


Figure 10-1: Load File

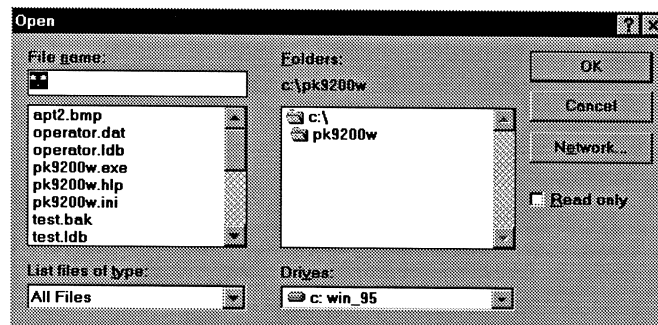


Figure 10-2: File Screen

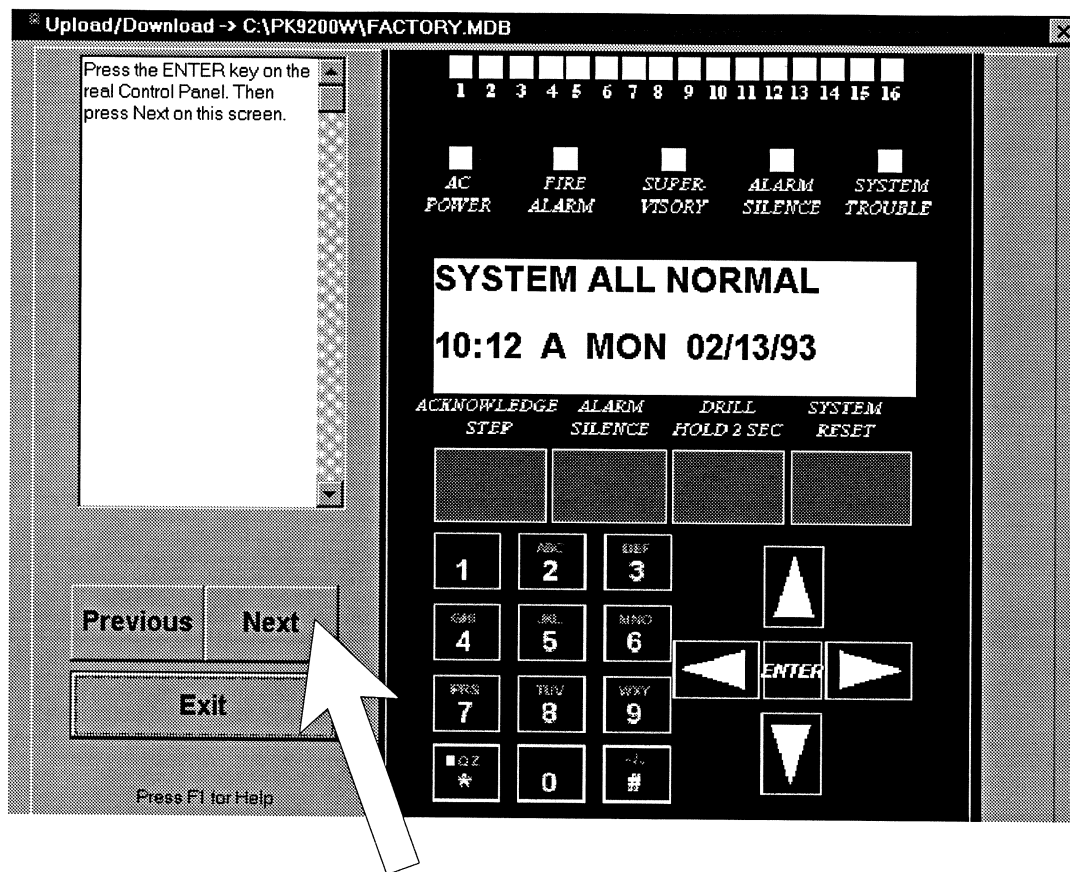


Figure 10-3: Transfer Screen

The first prompt displayed by this screen is shown in Figure 10-3. The complete series of prompts are as follows:

**Press the Enter key on the real Control Panel.
Then press Next on this screen.**

To enter the programming mode press '1' on the real Control Panel. Then press Next on this screen.

**Enter the Level 1 password on the real Control Panel.
Then press Next on this screen.**

Press '5' on the real Control Panel to make the panel ready to receive from or transmit data to the PC. Then press Next on this screen.

The real Control Panel is now ready for communications with the PC. Press Next on this screen.

Communications with the panel will proceed. Please Wait.

If a COM Port is selected in the Software Setup screen, which is connected to a computer peripheral and not to the MS-9200 control panel, the screen shown in Figure 10-4 will appear.

If the physical connection between the PC and control panel has not been properly made or is faulty, the screen shown in Figure 10-5 will appear.

If all connections are good, the **Transfer** screen will prompt when the data transfer has been successfully completed.

Be certain to test the MS-9200 Fire Alarm Control Panel completely following the transfer of any programming information from the PC to the control panel.

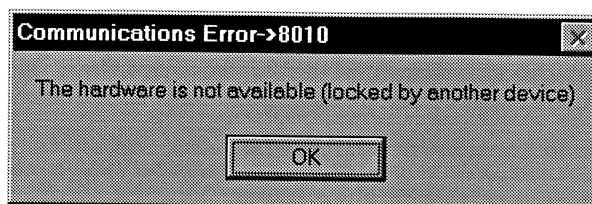


Figure 10-4: Hardware Fault

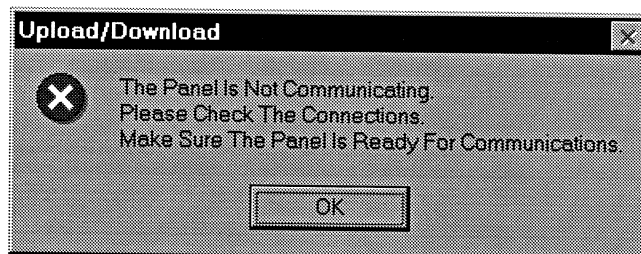


Figure 10-5: Communication Fault

CHAPTER 11

11.0 Transfer from Panel

The **Transfer from Panel** option allows the retrieval of programming information from an MS-9200 Fire Alarm Control Panel to a PC connected directly to the panel. Refer to Section 2.4 of this manual or refer to the MS-9200 Technical Manual for detailed information on connecting the PC to the control panel.

After confirming the physical connections between the PC and MS-9200 FACP, click on the **Transfer from Panel** button in the Main Menu. The **Transfer** screen shown in Figure 11-1 will appear. This screen will lead the user through the transfer process by providing a series of prompts along the way. These prompts will appear in the text window on the left side of this screen.

When the transfer begins, a counter will increment in the space above the **Previous** and **Next** buttons indicating that the transfer is taking place.

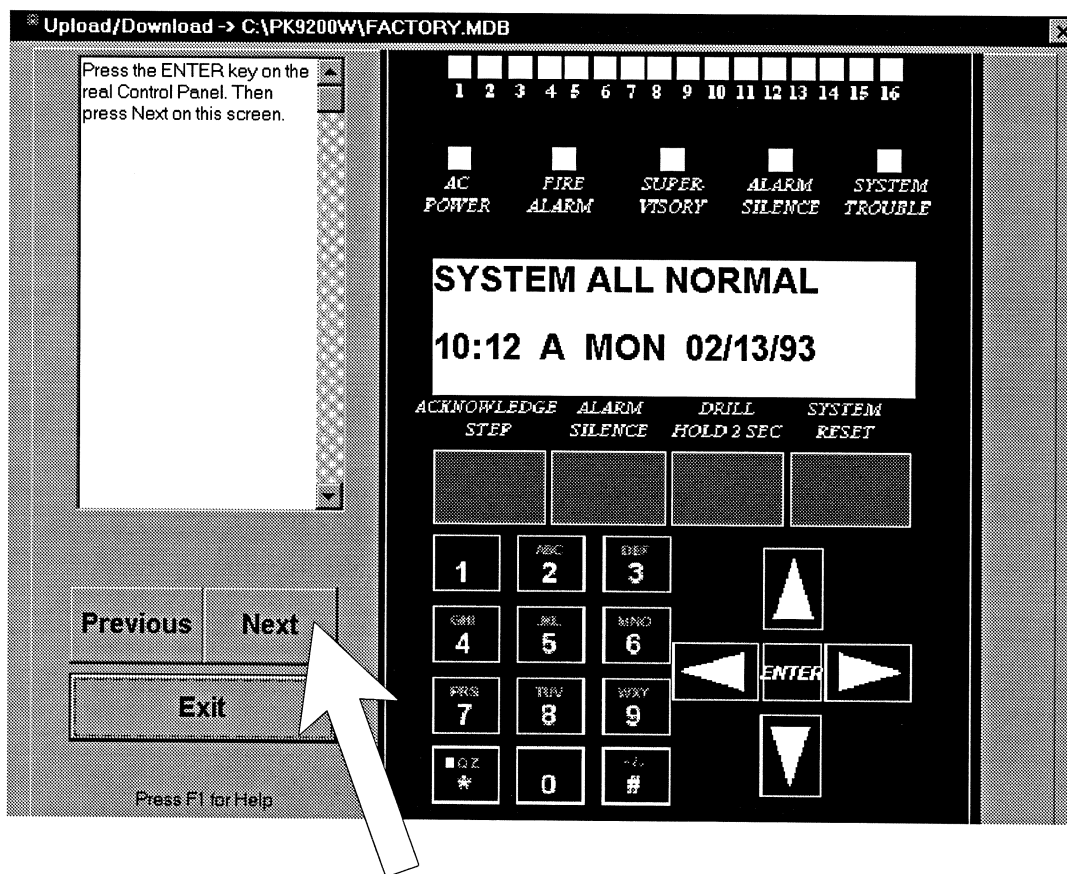


Figure 11-1: Transfer Screen

The first prompt displayed by the Transfer screen is shown in Figure 11-1. The complete series of prompts are as follows:

**Press the Enter key on the real Control Panel.
Then press Next on this screen.**

**To enter the programming mode press '1' on the real
Control Panel. Then press Next on this screen.**

**Enter the Level 1 password on the real Control Panel.
Then press Next on this screen.**

**Press '5' on the real Control Panel to make the panel
ready to receive from or transmit data to the PC. Then
press Next on this screen.**

**The real Control Panel is now ready for communications
with the PC. Press Next on this screen.**

Communications with the panel will proceed. Please Wait.

When the transfer has been completed, the counter will stop and a Windows® dialog box will appear, similar to the one shown in Figure 11-2. The dialog box prompts the user for a directory and file name where the transferred program file will be saved. Type the location and name and then click on the **OK** button to save the file.

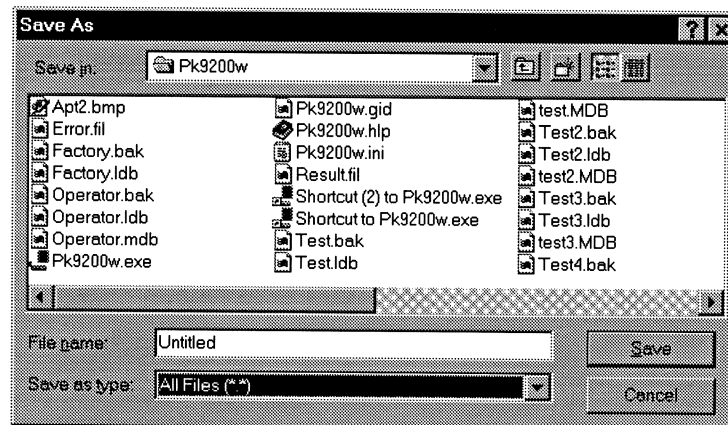


Figure 11-2: 'Save As' Dialog Box

If a COM Port is selected in the Software Setup screen, which is connected to a computer peripheral and not to the MS-9200 control panel, the screen shown in Figure 11-3 will appear.

If the physical connection between the PC and control panel has not been properly made or is faulty, the screen shown in Figure 11-4 will appear.



Figure 11-3: Hardware Fault

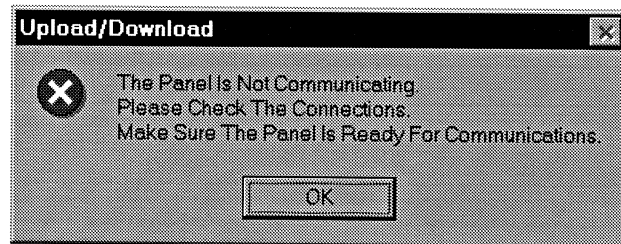


Figure 11-4: Communication Fault

Notes

Notes

Limited Warranty

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