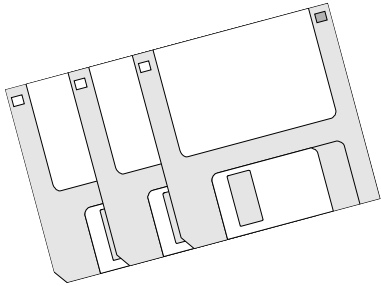




PK-5210UD

Remote Upload/Download Software Manual



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

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 also be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49° C / 32-120° F and at a relative humidity of 85% RH (non-condensing) at 30° C/86° F. 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 15-27° C / 60-80° F.

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

Fire Alarm System Limitations

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.

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.

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

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 panel. 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

Product Description

The PK-5210UD Remote Upload/Download Software is a versatile utility program with an extensive list of powerful features which permits remote programming and system interrogation of the MS-5210UD control panel over standard public telephone lines. Using this utility, the panel can be programmed using most IBM AT or compatible computers, including laptops, equipped with a Hayes® compatible modem. Program files can also be created and stored on the PC and then downloaded to the panel.

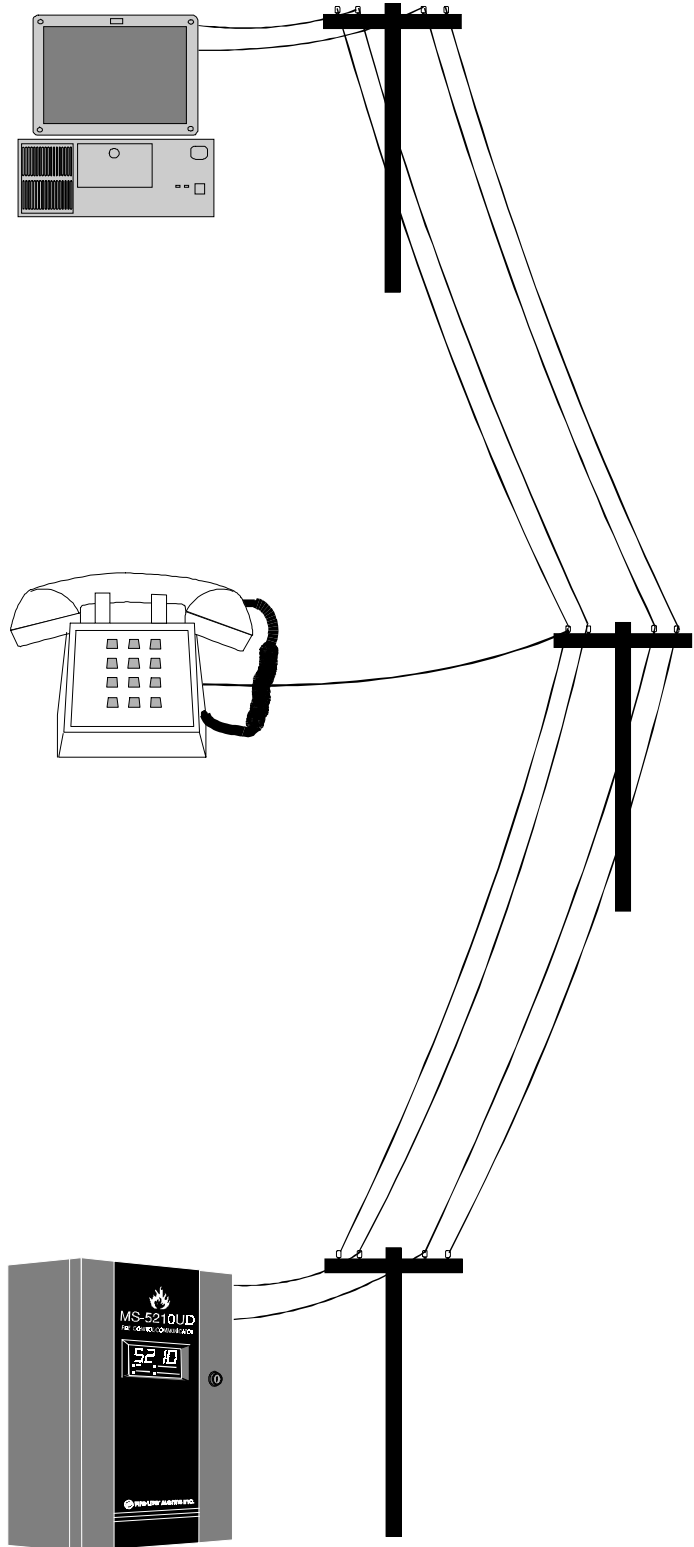
Use of the PK-5210UD software requires MS-5210UD control panel firmware version MS52103.0 or later. The MS-5210UDE control panel requires firmware version MS5210E30 or later. In addition, a full understanding of the MS-5210UD FACP (Fire Alarm Control Panel) functionality is required prior to any upload or download activity. For information on the fire alarm control panel, refer to the MS-5210UD(E) Technical Manual P/N: 50193.

Each time a new program is created or an existing program is modified and entered into an MS-5210UD FACP (Fire Alarm Control Panel), the panel must be thoroughly tested.

Note: Unless otherwise specified, the term MS-5210UD shall be used in this manual to refer to both the MS-5210UD and MS-5210UDE control panels.

1.1 Main Features

- Program runs under Microsoft® Windows® 3.1 or higher, including Windows® 95
- Password protection with four separate authority levels
- Modem option selection screen
- Operator Identification Utility provides operator information which is stored in a database
- Customer file Utility allows customer configuration using separate data files for each customer



- 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
- Upload/Download Control Screen provides extensive transaction options:
 - Execute control panel functions:
 - ✓ Silence Trouble
 - ✓ Manual Evacuate
 - ✓ Restore Evacuate
 - ✓ Zone/NAC Enable/Disable
 - ✓ Set Time and Date
 - ✓ Clear History File
 - ✓ Clear Walktest File
 - ✓ Secret Code Modification
 - Retrieve information from control panel:
 - ✓ Panel Program
 - ✓ History File
 - ✓ Walktest File
 - ✓ Troubleshoot Voltages (with Real Time Option)
 - ✓ Current Panel Status (with Real Time Option)
 - ✓ Time and Date
 - Respond to downloads initiated by control panel
- Security Features:
 - ✓ Secret Code
 - ✓ Time-out at Control Panel
 - ✓ Callback (with Disable Option)
 - ✓ Panel Identification Number (future option)
 - ✓ Error Checking (with retry on error)
 - ✓ Central Station Acknowledge
 - ✓ Central Station Data Protection
- File Comparison Utility allows location by location comparison of separate upload and download files
- Print Utility allows configurable printing of upload and download file information

CHAPTER 2*Getting Started*

The PK-5210UD Software provides a convenient and powerful tool which can be used to program and manipulate the MS-5210UD programming data from a remote location. This user friendly utility has been designed to provide many features which will enhance the control panel's serviceability. In order to take full advantage of all the available features, it is important to become familiar with the PK-5210UD 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-5210UD 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-5210UD program. Take the time to read and understand the installation procedures and system requirements as presented in this chapter.

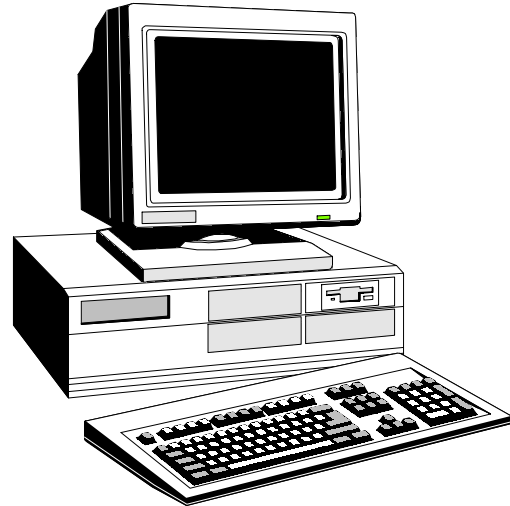
An On-line Help feature has been incorporated into the software. For information about a screen option, use the mouse arrow to point to the screen option button. Click and hold the mouse button, and move the arrow off the selected screen button. Release the mouse button and then press the F1 keyboard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

2.1 Basic System Requirements

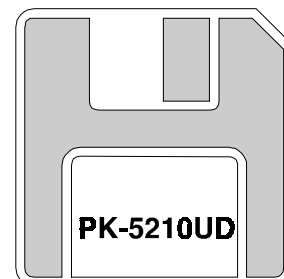
The PK-5210UD Program has been designed for a specific computer environment. Although most IBM AT or compatible computers will accommodate the PK-5210UD software, specific computer requirements and operating systems must be adhered to. In order to ensure proper operation of the PK-5210UD software, the 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-5210UD software.



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



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-5210UD 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-5210UD menu screens.

2.1.4 Mouse

Any IBM compatible mouse or track ball should be used to run the program, however, the entire program may also be run from a standard 101-key keyboard.

2.1.5 Microsoft® Windows®

The PK-5210UD 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 About Modems

A modem (**modulator/demodulator**) converts the digital data signals of a computer to audio tones in order to transmit the serial data over standard telephone lines. The modem also converts the incoming audio tones to digital data that the computer can use.

Two basic types of modem have been designed for IBM PCs and compatibles; direct connect internal modems and direct connect external modems.

The internal modem is designed as an 8-bit IBM PC compatible expansion card which plugs into the computer's expansion slot. A built-in serial port is accessible through the back of the computer. The main advantages of the internal modem are the relatively low cost and the built-in serial port.

An external modem incorporates its own power supply and RS-232 interface into a single package. It connects to an IBM compatible computer through an RS-232 serial cable. The main advantages of the external modem are the simplicity of connection to an IBM compatible computer with an RS-232 serial interface and the ease with which it can be moved from one computer to another.

Using the Configure Communication screen, the PK-5210UD can be set to operate with either an internal or external modem with a baud rate of 1200 or higher. The PK-5210UD will set it to the proper baud rate. Baud rate refers to the speed of transmission in bits per second. Most 1200 baud modems conform to Bell 212A North American standard. Baud rate standards set guidelines for modem manufacturers to insure compatibility between modems operating at the same baud rates.

2.2.1 Compatible Modems

The following internal and external modems are supported:

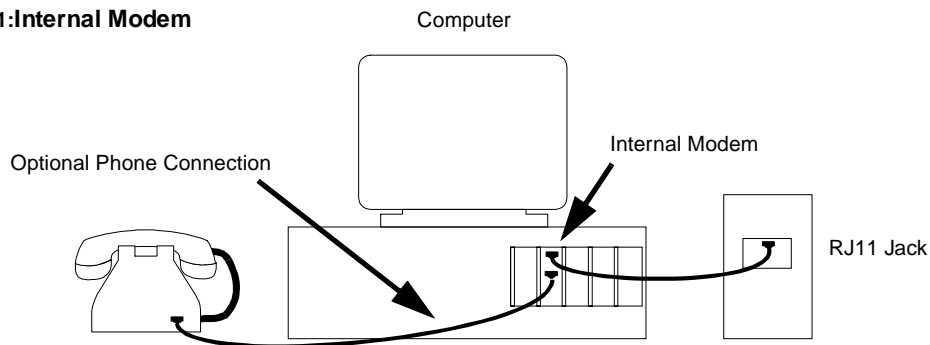
- Cardinal 14400
- Cardinal 28800
- Hayes Accura 14400
- Hayes Accura 28800

- Hayes Optima 9600
- Hayes 2400 Data/9600 Fax
- Hayes 1200 Smart Modem
- Identity ID-2400
- US Robotics Sportster 1200
- US Robotics Sportster 9600
- US Robotics Sportster 14400
- US Robotics Sportster 28800
- Zoom 14400 Data/Fax
- Zoom 9600

2.3 Cable Connections

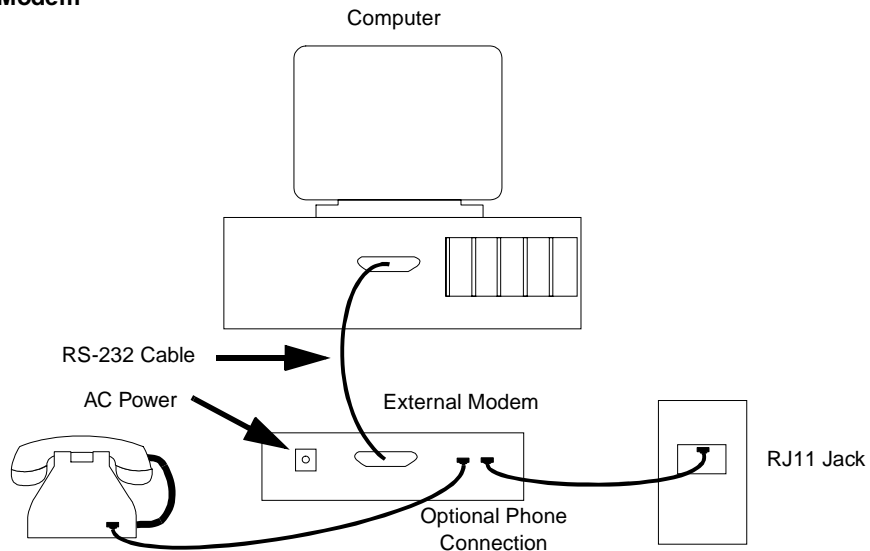
Direct connect modems are connected to telephone lines using standard RJ11 modular jacks and plugs. Internal modems which plug into the PC computer's expansion slot, connect directly to the phone line using the RJ11 connectors. An RJ11 jack is built into the modem card allowing connection to the phone line. Power for the modem is supplied by the computer.

FIGURE 2-1: Internal Modem



External modems connect to the telephone line using the RJ11 jack and plug. The modem then connects to the PC's RS-232 serial port. A DB-9 or DB-25 RS-232 cable is used depending on the computer serial port connector. Power must be supplied to the external modem. *Note that cables are not supplied with the PK-5210UD.*

FIGURE 2-2: External Modem



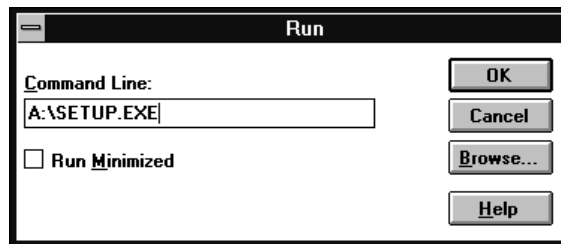
2.4 Loading Software

The PK-5210UD software, which is supplied on three 3½" floppy disks, must be loaded onto the service terminal (computer) hard drive. The software should be loaded using Windows®.

2.4.1 Loading PK-5210UD using Windows®

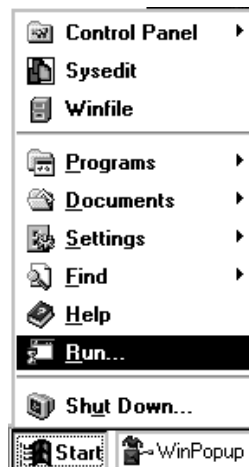
With Windows® 3.1 or higher installed and the Program Manager being displayed, insert the PK-5210UD floppy disk labeled 'Disk 1 of 3' into the floppy drive. Using the mouse pointer, click File in the Program Manager menu line. Select Run from the list of options under File by clicking Run with the mouse. The window shown in Figure 2-3 will be displayed with a cursor blinking in a box labeled Command Line.

FIGURE 2-3:Windows® 3.1 Dialog Box



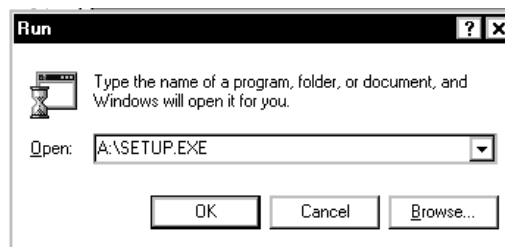
With Windows® 95 installed, using the mouse pointer, click the *Start* button. The window shown in Figure 2-4 will be displayed.

FIGURE 2-4:Windows® 95 Start



Using the mouse pointer, click Run to display the dialog box shown in Figure 2-5. The cursor will be blinking in the box labeled Open.

FIGURE 2-5:Windows® 95 Dialog Box



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

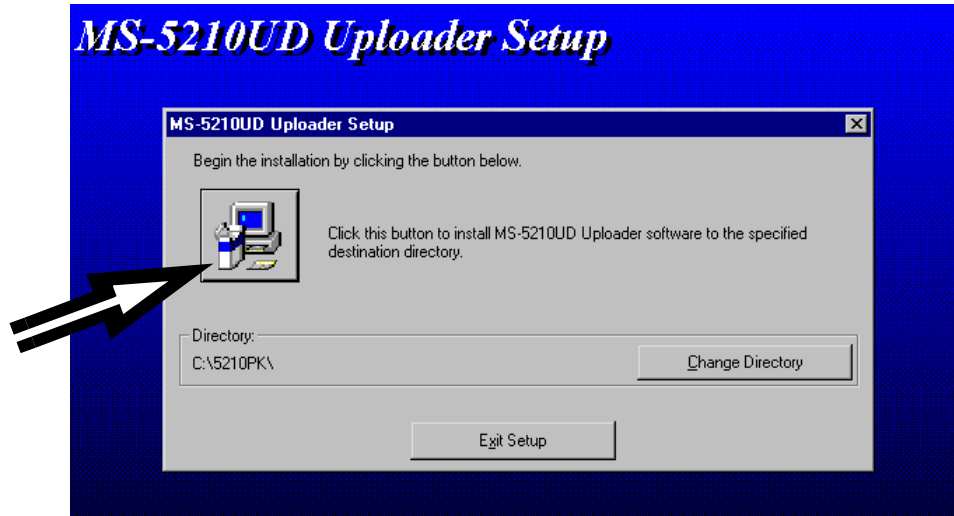
A:\SETUP.EXE

If a floppy drive other than A is used, replace **A** with the floppy drive in which the PK-5210UD floppy disk is inserted. Click 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 2.4.2 "PK-5210UD Installation Prompts".

2.4.2 PK-5210UD Installation Prompts

One of the first screens to be displayed during the installation process is shown in Figure 2-6. This screen 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 5210PK when the button (see Figure 2-6 arrow) is clicked. If you wish to change this default path, type in the new information after clicking the *Change Directory* button.

FIGURE 2-6:Installation To Hard Drive



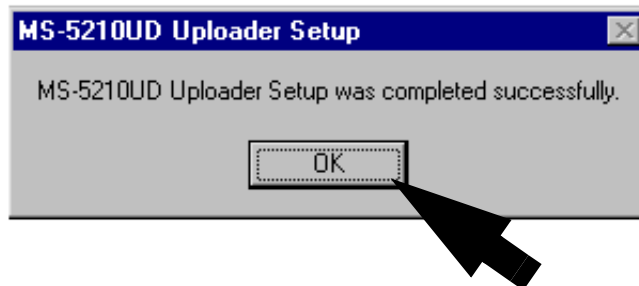
For example, if you have a partitioned hard drive containing a D drive, you may load the program to the D drive partition. If you wish to call the directory something other than 5210PK, type a different name such as PROGRAM (limit is 8 characters). To use more than 8 characters, a period followed by up to 3 additional characters may be entered (PROGRAM.DIR). The information would be typed in as follows:

D:\PROGRAM

Click the *Continue* button to continue the installation. *Note that the last floppy disk, labeled 'Disk 3 of 4', should remain in the disk drive with write protect disabled until installation is complete.*

The last installation screen as shown in Figure 2-7, informs you that the installation is complete. Use the mouse arrow to click the *OK* button in this screen. The final installation process is the creation of the Upload/Download program ICON.

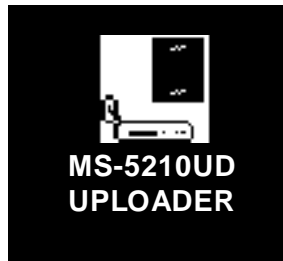
FIGURE 2-7:Installation Completed



CHAPTER 3 *User Interface*

Following the completion of the PK-5210UD program installation, a window is created with the MS-5210UD UPLOADER 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.

FIGURE 3-1:UPLOADER ICON



Note that from this point on, all subsequent menus and functions may be performed using the keyboard only. This is especially useful when a mouse is not available. Two keyboard methods are available. The first method allows the user to simultaneously press the 'ALT' key and the underlined letter on a displayed button. The second method allows the user to move between buttons or fields via the 'Tab' key, followed by pressing the 'Enter' key. Either method invokes the desired function.

3.0.1 Initial Use of PK-5210UD

The screen shown in Figure 3-2 will appear only on initial use of the PK-5210UD 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 consisting of at least one but not more than eight alphanumeric characters is typed. The name and password should be checked and confirmed for accuracy. If satisfied with this data, position the mouse pointer on the *Update* button 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-5210UD program.

FIGURE 3-2:Initialization Screen

 A screenshot of a software window titled "Update Operator Database". The window has a dark gray background and contains several input fields and buttons.

- At the top, the title "Update Operator Database" is centered.
- Below the title, there are four rows of input fields:
 - "Last Name" with a text input box.
 - "First Name" with a text input box.
 - "Operator Password" with a text input box.
 - "Access Level" with a small box containing the number "0" and a dropdown menu currently showing "Master".
- At the bottom center, there are two buttons: "Update" and "Cancel".
- At the bottom right, there is a status box that says "Record Count : 0".
- At the very bottom, a line of text reads: "Press 'F1' for help. Press 'Ctrl-C' to center form on screen".

3.0.2 Log-in as Master

Following the Initialization screen shown in Figure 3-2 on page 12, or each time the Upload/Download program is run after initialization, the screen shown in Figure 3-3 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 Down Arrow key or by using the mouse arrow to click in the next field. Once the password is keyed in, click 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.'

FIGURE 3-3:Log-in

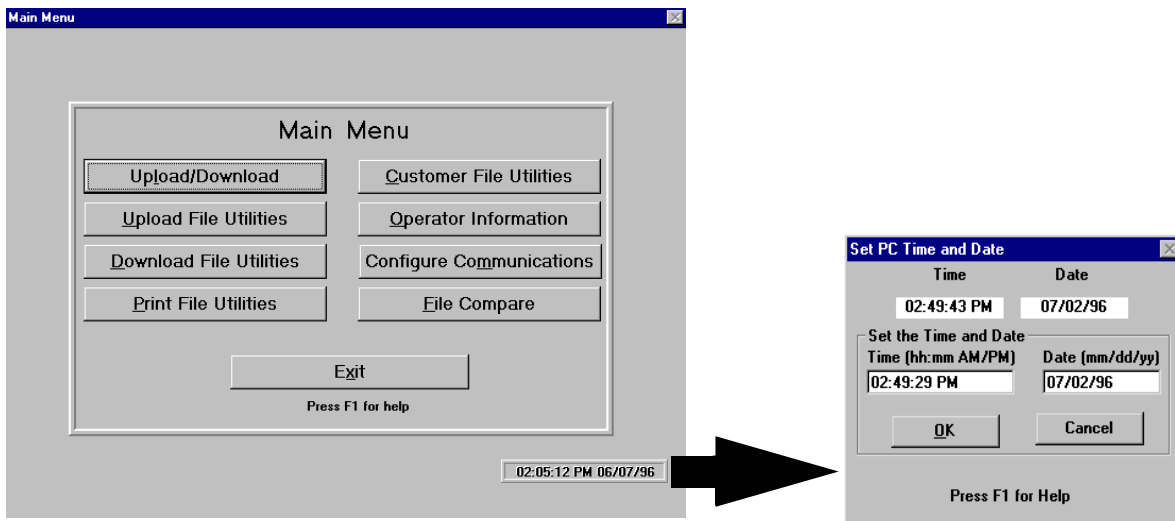


3.1 Main Menu

Following a successful Log-in, the Main Menu screen shown in Figure 3-4, will be displayed. *Each menu option is described in the sequence in which it would normally be used for an initial MS-5210UD panel upload or download.*

Note that double clicking the time/date block in the bottom right corner of this screen will display a pull-down screen which may be used to change the service terminal (PC) time and date. The flashing cursor will be in the time field. Type the new time or Tab the cursor to the date field and type the new date. Click the *OK* button to update.

FIGURE 3-4:Main Menu



3.1.1 Operator Information

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. Refer to "Password Protection" on page 46, for a detailed description of the Access Levels.

Figure 3-5 shows the screen which will be displayed by clicking on the Operator Information button. The Name fields in this display will contain the name of the individual who initially installed the PK-5210UD program and is designated the master. This screen allows the master to create alternate masters and designate individuals with lower access levels.

FIGURE 3-5:Operator Information

The screenshot shows a form with the following fields and controls:

- Last Name: 0
- First Name: 0
- Operator Password: 0
- Access Level: 0 Master
- Buttons: Print, New, Update, Delete
- Buttons: First, Previous, Next, Last, Search
- Buttons: Exit to Main Menu
- Record Count: 4
- Text: Press F1 for help

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 3-5 on page 14, clicking the *Print* button will allow printing of the current operator or the entire database. Clicking the *New* button adds new operators. Clicking the *Update* button modifies the current operator. Clicking 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 the *New* button if you wish to add someone to the access list. The screen shown in Figure 3-6 will appear.

FIGURE 3-6:New Access

The screenshot shows a window titled "Add New Records" with a blue title bar and a close button. Inside the window, there is a form with four input fields: "Last Name", "First Name", "Operator Password", and "Access Level". Below these fields are three buttons: "Update", "Cancel", and "Exit". At the bottom of the form, there is a "Record Count" field with the value "4". At the very bottom of the window, there is a text box containing the instruction: "Press 'F1' for help. Press 'Ctrl-C' to center form on screen".

Type the Last Name, First Name, Password and access level for the new individual. Complete each entry by pressing the Enter key or clicking in 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 (refer to “Password Protection” on page 46, for a detailed description of the Access Levels):

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

Clicking the *Cancel* button will clear all data entered in this screen prior to Updating. Clicking 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 the *Exit* button to return to the Main Operator Information screen. From this screen, click the *Exit to Main Menu* button to return to the main menu selections.

3.1.2 Configure Communications

The PK-5210UD software must be configured for compatibility with the user's service terminal (PC) communications ports and modem setup. Clicking the *Configure Communications* button or pressing ALT + M in the Main Menu will display the options screen shown in Figure 3-7. Use the mouse button to click the appropriate selections or use the Tab key to move from field to field and the arrow keys to move within fields to make selections.

FIGURE 3-7: Configure Communications

The **Port** selection (COM1 through COM4) determines the location of the physical connection for the modem. An internal or external modem may be used. This selection depends on the service terminal's available serial connectors. Refer to the service terminal (PC) technical manual for information. The Baud Rate, which is the data transmission speed, is fixed at 1200 bps (bits per second).

An **Auto-Detect** button is provided which allows the software to determine which port is connected to the modem. Clicking the Auto-Detect button will cause the software to send modem test signals to all ports. Messages detailing the presence or absence of a modem will be displayed in the **Modem Communications** text block as the tests are generated. If multiple modems are installed, the first modem found will be selected. If no modem is detected, a dialog box will appear displaying a 'No Modem Found' message.

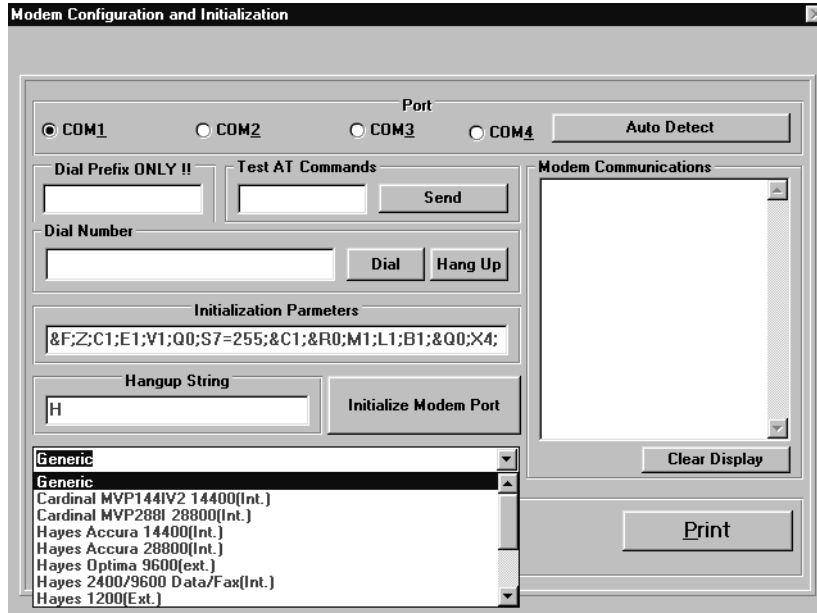
The optional **Dial Prefix ONLY** field allows the end user to program the digit or digits which must be dialed at the service terminal location to access an outside line. Enter the appropriate information by clicking in the Dial Prefix ONLY box and typing the dial prefix.

For example, many offices require an individual to dial 9 before an outside number can be dialed. This dial prefix will automatically be dialed for all outgoing calls. A comma should be inserted after the dial prefix to instruct the modem to wait before dialing the phone number. *Do not include any portion of the actual telephone number.*

If during initialization, a particular AT Test fails, the information will be displayed in the **Modem Communications** text block. Enter the failed AT Test in the **AT Test Commands** text block and click the **Send** button. The designated AT Test will be generated to the modem with the test results being displayed in the Modem Communications text block. The **Clear Display** button clears all messages from the Modem Communications text block.

The **Initialization Parameters** field is used to select the type of modem being used and customize initialization parameters of selected modems. Clicking the Down Arrow symbol of this block will cause a pull-down menu to appear with the list of available modem options as shown in Figure 3-8. The keyboard Tab key may be used to move to this field and then the up and down Arrow keys will scroll through the selections. To modify parameters, click in the box and add parameters noted in the modem manual.

FIGURE 3-8:Additional Parameters



Clicking the **Initialize Modem Port** button will send the initialization string to the PC modem in order to test the modems functionality. Text messages will be displayed in the Modem Communications text block. Entering a modem phone number in the **Dial Number** field and clicking the **Dial** button will test the service terminal modem's ability to dial out. Clicking the **Hang-up** button will cause the service terminal to disconnect the call to the modem.

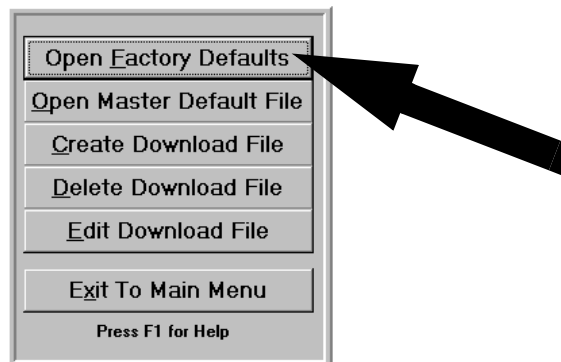
The **Hang-up String** field is used to enter the modem command required to hang-up or disconnect the modem from the phone line. The factory default is HO. Refer to your specific modem manufacturer's manual for the required Hang-up String.

After completing the communications configuration, click the **Exit & Save** button or press ALT + X to store the information and return to the Main Menu. These settings should not require further editing unless a different modem, access code or phone line is to be used. Clicking the **Cancel** button or pressing ALT + C will access the Main Menu without saving the settings just selected. Clicking the **Print** button or pressing ALT + P with a printer connected to the service terminal, will generate a hard copy of the current communication settings.

3.1.3 Download File Utilities

Clicking the *Download File Utilities* button in the Main Menu, will display the screen shown in Figure 3-9. This option allows the creation or customization of a program for the MS-5210UD fire alarm control panel.

FIGURE 3-9:Download File Utilities



3.1.3.1 Opening the Factory Default File

Clicking the *Open Factory Defaults* button will access the first Program 1 screen shown in Figure 3-10. The Factory Defaults file lists all of the factory default settings for the MS-5210UD FACP (refer to the MS-5210UD Technical Manual Section 3.0 for an explanation of Program Levels 1 through 4 settings). Clicking the *Prev. Screen*, *Next Screen*, *Program 1*, *Program 2*, *Program 3* or *Program 4* buttons allows viewing of all default settings for Program Levels 1 through 4.

The Factory Default program file may be used to program a panel with the original factory settings. The file may also be used as a template to create a customized default program. For example, if a number of panels are to be programmed with similar information, using a default program containing information common to all panels will allow the programmer to easily customize the programs for specific panels. The user may enter a brief text message describing the program by clicking the *About File* button (refer to arrow in Figure 3-10). The File Description box will appear, allowing the user to enter the descriptive text by clicking in the box and typing the desired text. *Note that when programming phone numbers, unused digits must be entered as F.*

FIGURE 3-10:Factory Default

Program Section 1: - Programmable Addresses 0 - 67			
Primary Phone Number	FFFFFFFFFFFFFF	Communicator Enable	<input type="checkbox"/> Panel Only
Primary Comm Format	E Contact ID	Secondary Central Station	<input type="checkbox"/> Used As Backup
Primary Account Code	0000	Touchtone Rotary Select #1	<input type="checkbox"/> Touchtone
Primary 24 Hour Test Time	0000	Make Break Ratio #1	<input type="checkbox"/> 67/33
Primary # Test Time Interval	0 24 Hour	Touchtone Rotary Select #2	<input type="checkbox"/> Touchtone
Secondary Phone Number	FFFFFFFFFFFFFF	Make Brake Ratio #2	<input type="checkbox"/> 67/33
Secondary Comm Format	E Contact ID	Ground Start Phone Line #1	<input type="checkbox"/> No Ground Start
Secondary Account Code	0000	Ground Start Phone Line #2	<input type="checkbox"/> No Ground Start
Secondary 24 Hour Test Time	0000	Zone 1 Function Select	<input type="checkbox"/> 2 Wire Smoke
Secondary # Test Time Interval	0 24 Hour	Zone 2 Function Select	<input type="checkbox"/> 2 Wire Smoke
Alarm Presignal	0 Disabled	Zone 3 Function Select	<input type="checkbox"/> 2 Wire Smoke
Alarm Presignal Delay Time	120 Seconds	Zone 4 Function Select	<input type="checkbox"/> 2 Wire Smoke

File Description:
The factory default file CANNOT be modified; however, the master default file CAN be modified.

Program 1	Program 2	Program 3	Program 4	About File
Store Data	Prev. Screen	Next Screen	Print	Exit

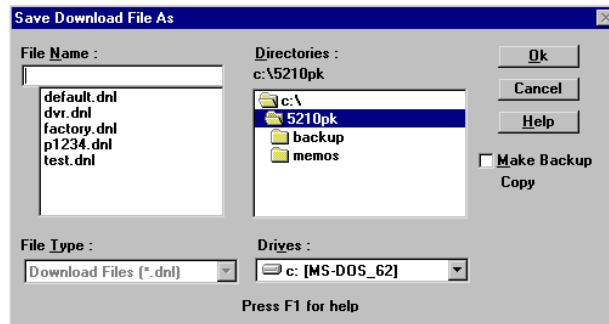
Put the cursor in the data entry field and press F1 for Help

Note: To change entries, use the Up/Down arrow, Tab or Enter keys or mouse cursor to move from line to line and then type in the new information. Double clicking on a line requiring specific entries will scroll through the available selections.

3.1.3.2 Saving the Default Files

After creating a customized default program, clicking the *Store Data* button will save the program along with the descriptive text message. A dialog box shown in Figure 3-11, will prompt the programmer to select a filename for the default program. Type the desired name in the File Name box. Attempting to save the file as Factory Default will cause an error message indicating that the Factory Default program cannot be changed, ensuring that the original factory default program is always available.

FIGURE 3-11: Save Default Program



The customized program may be saved using the filename **default.dnl** (must exist in the same directory as **5210PK.exe**) if it will be used as a template for all panels, or it could be saved using a distinctive filename relating to the specific panel being programmed. Once the program has been saved, click the *Exit* button to return to the Download File Utilities screen.

3.1.3.3 Opening the Master Default File

The *Open Master Default File* button will display the **default.dnl** program. If this is the first time this file is opened, the contents will be the same as the Factory Default file discussed in “Opening the Factory Default File” on page 18. This **default.dnl** file may be edited and then saved under the **default.dnl** filename or a new name.

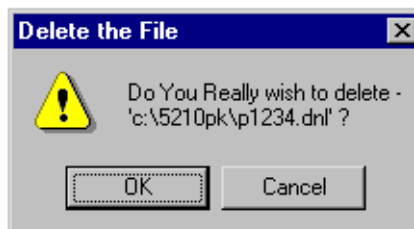
3.1.3.4 Creating a Download File

Clicking the *Create Download File* button opens a dialog box similar to the one shown in Figure 3-11 on page 19 which prompts you to enter a File Name. Typing a new filename will cause the program to create a file with the new name and then open the existing **default.dnl** file from the directory where the PK-5210UD is installed. The file may then be edited. Once the default.dnl file has been customized to your liking and the *Store Data* button is clicked, the altered program will be saved under the filename just created without altering the existing **default.dnl** file.

3.1.3.5 Deleting a Download File

The *Delete Download File* button opens a dialog box similar to the one shown in Figure 3-11 on page 19 which prompts for the filename to be deleted. Entering the filename and clicking the *OK* button or pressing Enter will cause the warning message similar to the one shown in Figure 3-12, to be displayed. Clicking the *OK* button or pressing Enter will delete the selected file.

FIGURE 3-12: Delete Download Warning



3.1.3.6 Editing a Download File

Clicking the *Edit Download File* button will display the same dialog box shown in Figure 3-11 on page 19, which prompts for a File Name. Typing in the filename and clicking *OK* or pressing Enter will cause the chosen file to be displayed, ready for editing. After the changes have been made, clicking the *Store Data* button will once again display the dialog box similar to Figure 3-11 on page 19, prompting you to enter a File Name to be used for saving the edited file. The File Name box will contain the original filename. If the original file is to be replaced with the edited version, click the *OK* button or press Enter. If the edited file is to be saved under a new name, type the file-name in the appropriate box and the click the *OK* button or press Enter.

Notes:

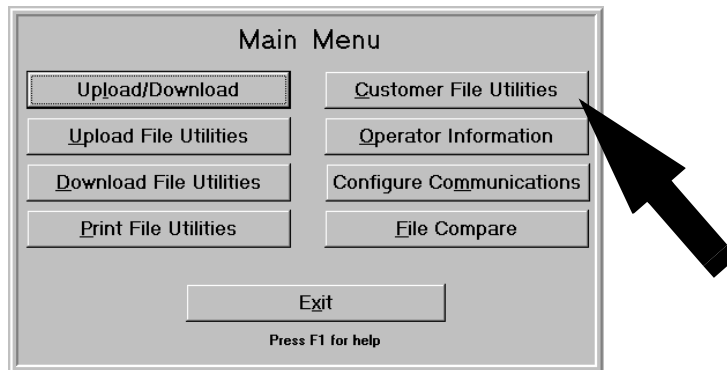
1. Changing the functionality of a zone in Program Level 1 may automatically change the alarm and restoral phone codes for that zone in Program Level 2. Refer to the MS-5210UD Technical Manual regarding zone function programming.
2. Changing the Primary or Secondary communication Format (control panel address 16 or 42 respectively) in Program Level 1 will automatically change the event codes in Program Level 2 to their default values per the MS-5210UD Technical Manual.
3. Site unique changes to Program Level 2 event codes must be made after all Program Level 1 changes have been completed.

After all work in the Download File Utilities is completed, click the *Exit to Main Menu* button.

3.1.4 Customer File Utilities

The Customer File Utilities option in the Main Menu is used to associate a program file which was created or customized in the Download File Utilities option with a specific customer control panel. Using the mouse arrow, click *Customer File Utilities* from the Main Menu shown in Figure 3-13.

FIGURE 3-13:Main Menu



The screen shown in Figure 3-14 will be displayed.

FIGURE 3-14:Customer File Utilities



3.1.4.1 Selecting a Customer File

Clicking the *Select Customer File* button will display a screen similar to the one shown in Figure 3-11 on page 19. In the File Name box, enter the name of the customer file to be downloaded and click the *OK* button or press Enter. The selected file is ready to be downloaded to the control panel. Exit to the Main Menu and select the *Upload/Download* option and download the file.

3.1.4.2 Creating a Customer File

To make a new customer file, click the *Create Customer File* button. A screen similar to Figure 3-11 on page 19, will be displayed. Type the new customer filename in the File Name box and click the *OK* button or press Enter. The screen shown in Figure 3-15 will be displayed.

FIGURE 3-15:Select Download File

The first field in this screen is the Panel Secret Code which is the identifying code used by the service terminal to access the MS-5210UD control panel. A maximum of eight digits may be selected for this code. When the service terminal calls the control panel, the number in the Secret Code Number field of the service terminal software is compared to the secret code in the control panel. If they are the same, access to the control panel is permitted.

Note that the Secret Code is established in the MS-5210UD during the initial download by the PK-5210UD. The Secret Code can be changed only by a download, not at the control panel.

Enter the main phone number for the control panel in the Panel Primary Phone Number field. If this number is long distance, it must include the digit 1 + the area code. A comma may be used to insert a pause between digits. Do not include the Dial Prefix discussed in “Configure Communications” on page 16.

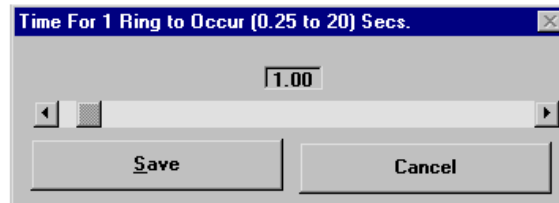
The Panel Secondary Phone Number field may contain an alternate phone number for the control panel. It uses the same format as the Primary Phone Number.

Clicking the *Select Download File* button displays the screen shown in Figure 3-16. It is used to associate the fire alarm control panel configured in this option with the program utility to be downloaded to the panel.

FIGURE 3-16:Select Dialog Box

The field labeled Set Time For Shared Line 1 Ring is valid only if the primary panel phone number is shared with a FAX or answering machine. The time in the adjacent box refers to the amount of time it takes for the MS-5210UD to receive a ring. The default time is 5 seconds, however, the time may be adjusted by clicking the button *Set Time for Shared Line 1 Ring*. This results in the appearance of the screen shown in Figure 3-17.

FIGURE 3-17: Set Time for Shared Line 1



The field labeled Set Time For Shared Line 2 Ring is treated in similar manner to Line 1. It is valid only if the secondary panel phone number is shared with a FAX or answering machine.

The four information fields are for reference purposes only and cannot be changed in this screen. The Service Terminal Numbers (primary and secondary) and Primary and Secondary Line Shared With (FAX or answering machine) are set in the Download File Utilities screen. The field labeled Customer Information allows a brief description of the customer to be entered.

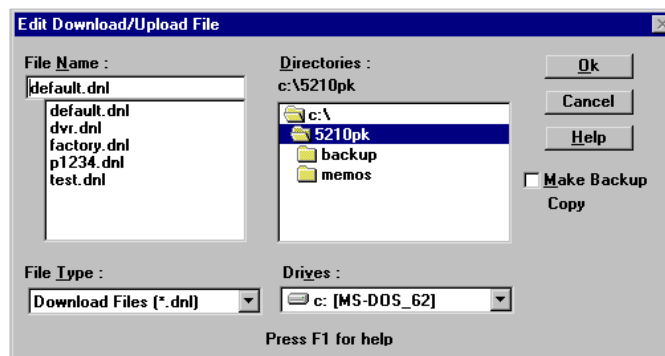
3.1.4.3 Deleting a Customer File

Clicking the *Delete Customer File* button will display a screen similar to the one shown in Figure 3-11 on page 19. Enter the File Name of the customer file to be deleted and click the *OK* button or press Enter. The selected customer file will be removed from the database.

3.1.4.4 Editing an Existing Customer File

The final option in the Customer File Utilities is *Edit Customer File Option*. Clicking this button will cause the screen shown in Figure 3-18 to be displayed.

FIGURE 3-18: Load Customer File



Type the customer filename to be deleted and click the *OK* button or press Enter. The screen illustrated in Figure 3-15 on page 21, will appear. Make the desired corrections to this screen and then click the *Save* button. The file will be updated in the database.

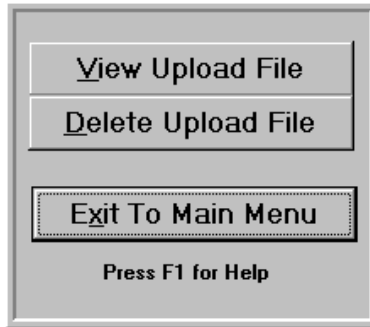
The option buttons at the bottom of the screen shown in Figure 3-15 on page 21, include the following:

- ✓ **SAVE** - used to save a Customer File which was just created or edited. A screen similar to the one shown in Figure 3-18 will prompt you to enter the name of the Customer File to be saved. The program will automatically add a filename extension of .CUS
- ✓ **PRINT** - creates a hard copy (if printer is connected) of the Customer File and Download File being displayed
- ✓ **CANCEL** - exits to the Main Menu without changing the screen entries
- ✓ **EXIT** - returns to Main Menu

3.1.5 Upload File Utilities

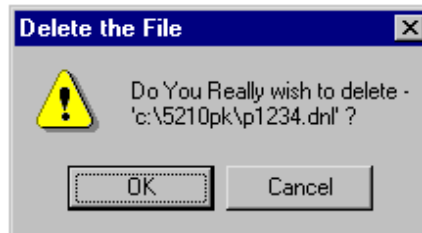
Selecting the *Upload File Utilities* from the Main Menu will cause the screen shown in Figure 3-19 to be displayed.

FIGURE 3-19:Upload File Utilities



The *Delete Upload File* button will display a screen similar to the one in Figure 3-18 on page 22, prompting you to enter the File Name of the Upload File you wish to delete. Typing in the name and clicking the *OK* button or pressing Enter will cause the warning similar to the screen shown in Figure 3-20 which questions if you really want to delete this file. Clicking the *OK* button or pressing Enter will delete the selected file.

FIGURE 3-20:Delete Upload Warning




The *View Upload File* button allows viewing of a selected upload file. The screen shown in Figure 3-18 on page 22, will be displayed prompting for the File Name of the upload file to be viewed. Type in the filename and click the *OK* button or press Enter to see the file contents.

3.1.6 Upload/Download

Selecting *Upload/Download* from the Main Menu causes the screen shown in Figure 3-21, to be displayed. Where all previous utilities were used to configure the equipment and programs, this utility is used for the transfer of data between the service terminal and the FACP.

FIGURE 3-21:Upload/Download

Upload Options		Download Options	
<u>Upload All Data</u>		<u>Y</u> Download Program	<u>2</u> Set Time / Date
<u>A</u> Upload Program	<u>K</u> Read Program Data	<u>W</u> Download P1 Options	<u>3</u> Trouble Silence
<u>B</u> Upload P1 Options	<u>L</u> Read P1 Options	<u>X</u> Download P2 Options	<u>4</u> Manual Evacuate
<u>C</u> Upload P2 Options	<u>M</u> Read P2 Options	<u>Y</u> Download P3 Options	<u>5</u> Restore Evacuate
<u>D</u> Upload P3 Options	<u>N</u> Read P3 Options	<u>Z</u> Download P4 Options	<u>6</u> Disable Zones/NAC
<u>E</u> Upload P4 Options	<u>O</u> Read P4 Options	<u>1</u> Download Field	<u>7</u> Enable Zones/NAC
<u>F</u> Upload History	<u>P</u> Read History		<u>8</u> Clear History
<u>G</u> Upload Walktest	<u>Q</u> Read Walktest		<u>9</u> Clear Walktest
<u>H</u> Upload Troubleshoot	<u>R</u> Read Troubleshoot		<u>0</u> Change Secret Code
<u>I</u> Upload System Status	<u>S</u> Read System Status		
<u>J</u> Upload Time/Date	<u>T</u> Read Time / Date		



FIRELITE.CUS

Exit To Main Menu

Hang-Up

Press F1 for help

Transfer Time: 00:00:00	Retries : 000	Transfers: 000	03:30:22 PM 07/02/96
-------------------------	---------------	----------------	----------------------

↑
Start time of current transfer

↑
Number of retries

↑
Number of successful transfers

↑
Current PC time and date

The Upload/Download menu provides a versatile set of user options, eliminating the need to perform entire uploads or downloads in order to change or view individual functions. In addition, the Troubleshoot and System Status functions offer a real time display mode which allows the user to watch events or interfaces as they change.

During an Upload or Download operation, it is important to remember the following:

- ✓ *When using the callback feature discussed in Section 3.1.6.1.1, do not exit the PK-5210UD screen from which the call to the FACP was originated until after the callback has been answered by the service terminal*
- ✓ *An FACP alarm or trouble occurring during an upload or download will cause the FACP to stop data transfer and terminate the call in order to call the Central Stations. In addition, the FACP will terminate the call after two minutes of inactivity*

3.1.6.1 Upload Options

This versatile feature allows the PK-5210UD user to retrieve data from an FACP. Information about the data contained in each of the upload options can be found in the sections referenced next to each item. The upload process may include the following options:

- ✓ Upload All Data (P1 to P4):
Clicking the *Upload All Data* button will upload the Program Data (P1 through P4), Panel History, Walktest Data, a ‘Snap Shot’ of the Troubleshoot data, a ‘Snap Shot’ of the System Status and the panel Time and Date
- ✓ Upload Program - See “Read Program Data” on page 28:
Clicking the *Upload Program Data* button will upload the P1 through P4 Program Data
- ✓ Upload P1 Options (Program Selection 1 only) - See “Read Program Data” on page 28:
Clicking the *Upload P1 Option* button will upload P1 Program Data
- ✓ Upload P2 Options (Program Selection 2 only) - See “Read Program Data” on page 28:
Clicking the *Upload P2 Option* button will upload P2 Program Data
- ✓ Upload P3 Options (Program Selection 3 only) - See “Read Program Data” on page 28:
Clicking the *Upload P3 Option* button will upload P3 Program Data
- ✓ Upload P4 Options (Program Selection 4 only) - See “Read Program Data” on page 28:
Clicking the *Upload P4 Option* button will upload P4 Program Data
- ✓ Upload History - See “Read History Data” on page 29:
Clicking the *Upload History* button will upload the most recent panel history file of up to 256 activities and events
- ✓ Upload Walktest - See “Read Walktest Data” on page 30:
Clicking the *Upload Walktest* button will upload the most recent Walktest results conducted on the FACP. The upload may contain up to 256 events

For most uploads, there are two buttons; an *Upload* button and a *Read* button. Clicking the *Upload* button will initiate a data transfer from the control panel to the service terminal. Clicking the *Read* button allows the viewing of the uploaded data. A *Read* button will function (the button text is not gray) only if data for that button has been uploaded. The *Upload All Data* button will activate all *Read* buttons only after the upload is completed.

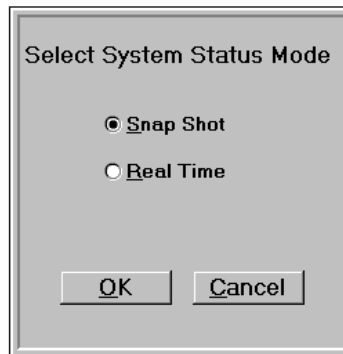
- ✓ Upload Troubleshoot (snapshot or real time) - See “Read Troubleshoot Data” on page 31:
Clicking the *Upload Troubleshoot* button will upload troubleshoot data from the FACP. Two methods for uploading this data are:
 1. Snap Shot - uploads the data from the FACP only once. The *Read Troubleshoot* button can be selected to view the uploaded data
 2. Real Time - uploads the data from the FACP continuously at three second intervals and displays the data on the Read Troubleshoot Screen until the *Exit* button is selected. If the communicator is enabled on the FACP and an event occurs, the panel will terminate communications with the service terminal to report the event to the Central Station receiver. After the *Exit* button is clicked, the operator can view the last Troubleshoot upload by clicking the *Read Troubleshoot* button.
Note that the user will be prompted to cancel or continue a real-time upload after 10 minutes of continuous upload has elapsed.
- ✓ Upload System Status (snap shot or real time) - See “Read System Status Data” on page 32:
Clicking the *Upload System Status* button will upload system status data from the FACP. Two methods for uploading this data are:
 1. Snap Shot - uploads the data from the FACP only once. The *Read System Status* button can be selected to view the uploaded data
 2. Real Time - uploads the data from the FACP continuously at three second intervals and displays the data on the Read System Status screen until the *Exit* button is clicked. If the communicator is enabled on the FACP and an event occurs, the panel will terminate communications with the service terminal to report the event to the Central Station receiver. After the *Exit* button is clicked, the operator can view the last System Status upload by clicking the *Read System Status* button
Note that the user will be prompted to cancel or continue a real-time upload after 10 minutes of continuous upload has elapsed

- ✓ Upload Time/Date - See “Read Time and Date” on page 33:
Clicking the *Upload Time/Date* button will upload the current panel time and date. The time and date should be initialized when the panel is configured.

3.1.6.1.1 Upload Sequence

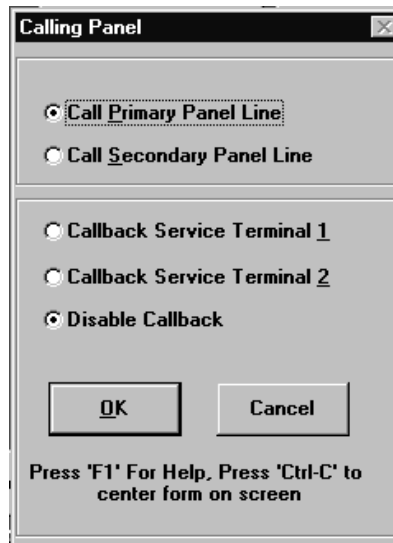
Clicking most of the upload buttons will display the screen shown in Figure 3-23. Clicking either the *Upload Troubleshoot* button or the *Upload System Status* button will display a screen similar to the one in Figure 3-22, whereby the user may choose between a real time (continuous) upload or a snapshot (single) upload.

FIGURE 3-22:Upload



Upon clicking the *OK* button in the Select System Status Mode screen, the screen in Figure 3-23 is displayed.

FIGURE 3-23:Upload Status Mode



Click on the FACP primary or secondary phone line for transmission to the panel and the service terminal phone number 1 or 2 to be used for callback. Clicking the *Disable Callback* button will defeat the FACP callback feature only if the user is a Master. Clicking the *OK* button or pressing Enter will commence the upload process. If an upload or download has already been performed and the call has not been terminated, the screen shown in Figure 3-23 is not displayed and the requested transaction occurs immediately.

Upload With Callback Disabled

Uploads can be accomplished in a variety of ways, with or without callback. The following message sequence will display on the screen for an entire upload with callback disabled:

1. Calling the Panel
2. Dialing Panel @ xxx (where xxx is the panel phone number)
3. Waiting for Modem to Connect
4. Verifying Secret Code
5. Requesting Disable Callback

6. Requesting Program Data from Panel
7. Requesting History Data from Panel
8. Requesting Walktest Data from Panel
9. Requesting System Status Data from Panel
10. Requesting Time and Date from Panel
11. Upload Complete

Steps 5 through 11 will vary depending on the upload button the user has clicked. If the upload is a real time troubleshoot or system status upload, the last step results in a real time display screen as referenced in “Read Troubleshoot Data” on page 31 and “Read System Status Data” on page 32.

Upload With Callback Enabled

The following message sequence displays on the screen for an entire upload with callback enabled:

1. Calling the Panel
2. Dialing Panel @ xxx (where xxx is the panel phone number)
3. Waiting for Modem to Connect
4. Verifying Secret Code
5. Requesting Program Data from Panel
6. Requesting Callback to Phone Number zzz (where zzz is the Service Terminal Phone Number)
7. Disconnecting from Panel
8. Waiting for Callback
9. Ring
10. Connecting with Panel
11. Verifying Secret Code
12. Requesting Program Data from Panel
13. Requesting History Data from Panel
14. Requesting Walktest Data from Panel
15. Requesting System Status Data from Panel
16. Requesting Time and Date from Panel
17. Upload Complete

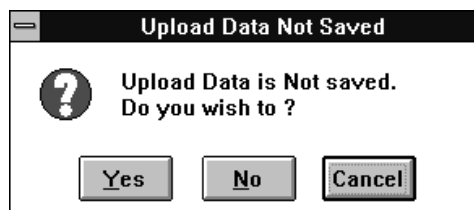
Steps 11 through 17 will vary depending on the upload button the user has clicked. If the upload is a real time troubleshoot or system status upload, the last step results in a real time display screen as referenced in “Read Troubleshoot Data” on page 31 and “Read System Status Data” on page 32.

Note that Items 6 - 11 above will not occur for the first upload from an MS-5210UD FACP. They will occur on all subsequent uploads following the initial download operation to the panel.

Communication will terminate if the user clicks the *Hang-up* button or *Exit to Main Menu* button or if the FACP terminates communication.

Clicking the *Exit to Main Menu* button will display the screen shown in Figure 3-24. Clicking the *Yes* button will display a dialog box similar to the one shown in Figure 3-18 on page 22, requesting the File Name under which you wish to save this data. Type the filename and click the *OK* button or press Enter to save the upload data.

FIGURE 3-24: Save Upload Data



Following the completion of an upload, the *Read* buttons corresponding to the upload button (refer to Figure 3-21 on page 24) will be enabled. This allows the viewing of these control panel files.

3.1.6.1.2 Read Program Data

Clicking one of the *Read Program Data*, *Read P1 Option*, *Read P2 Option*, *Read P3 Option* or *Read P4 Option* buttons will display a screen similar to Figure 3-25. This screen contains the program which has been copied from the FACP during this upload. Use the *Next* and *Previous* buttons to view additional screens. An Upload Program Data and Read Program Data operation should be done after every Download to confirm that the panel contains the correct program information.

FIGURE 3-25:Read Program

Programmable Addresses - C:\5210PK\FACTORY.DNL

Program Section 1: - Programmable Addresses 0 - 67

Primary Phone Number	FFFFFFFFFFFFFFF	Communicator Enable	0	Panel Only
Primary Comm Format	E Contact ID	Secondary Central Station	0	Used As Backup
Primary Account Code	0000	Touchtone Rotary Select #1	0	Touchtone
Primary 24 Hour Test Time	0000	Make Break Ratio #1	0	67/33
Primary # Test Time Interval	0 24 Hour	Touchtone Rotary Select #2	0	Touchtone
Secondary Phone Number	FFFFFFFFFFFFFFF	Make Brake Ratio #2	0	67/33
Secondary Comm Format	E Contact ID	Ground Start Phone Line #1	0	No Ground Start
Secondary Account Code	0000	Ground Start Phone Line #2	0	No Ground Start
Secondary 24 Hour Test Time	0000	Zone 1 Function Select	0	2 Wire Smoke
Secondary # Test Time Interval	0 24 Hour	Zone 2 Function Select	0	2 Wire Smoke
Alarm Presignal	0 Disabled	Zone 3 Function Select	0	2 Wire Smoke
Alarm Presignal Delay Time	120 Seconds	Zone 4 Function Select	0	2 Wire Smoke

File Description:
The factory default file CANNOT be modified; however, the master default file CAN be modified.

Program 1	Program 2	Program 3	Program 4	About File
Store Data	Prey Screen	Next Screen	Print	Exit

Put the cursor in the data entry field and press F1 for Help

3.1.6.1.3 Read History Data

Clicking the *Read History* button will display a screen similar to the one shown in Figure 3-26. The information in this screen will consist of all panel status changes such as alarms, troubles, switch activations, etc., since date last cleared as indicated in the upper right corner. This information can be extremely useful when tracking sporadic troubles or recurrent false alarms.

FIGURE 3-26:Read History

History File - C:\5210PK\UPLOAD.UPL			
Event	Time	Date	Last Cleared
Begin History File			07/01/96 09:03:53
Zone 7 in Alarm	09:17:40	07/01/96	
System Reset	09:08:31	07/01/96	
System Silenced	09:08:25	07/01/96	
Zone 8 In Fault	09:08:23	07/01/96	
Zone 7 In Fault	09:08:23	07/01/96	
Zone 9 In Fault	09:08:22	07/01/96	
Zone 6 In Fault	09:08:07	07/01/96	
Zone 5 In Fault	09:08:07	07/01/96	
Zone 4 In Fault	09:08:07	07/01/96	
Zone 3 In Fault	09:08:06	07/01/96	
Zone 2 In Fault	09:08:06	07/01/96	
No Battery	09:07:55	07/01/96	
Ack was pressed	09:06:14	07/01/96	
Manual Evacuation (Fire Drill)	09:06:10	07/01/96	
System Reset	09:05:53	07/01/96	
Zone 6 In Fault	09:05:40	07/01/96	
Zone 7 in Alarm	09:05:37	07/01/96	
Zone 8 in Alarm	09:05:36	07/01/96	
Ack was pressed	09:05:11	07/01/96	
Bell 1 Disable	09:05:08	07/01/96	
Zone 3 Disabled	09:05:08	07/01/96	
Zone 2 Disabled	09:05:07	07/01/96	
End History File			

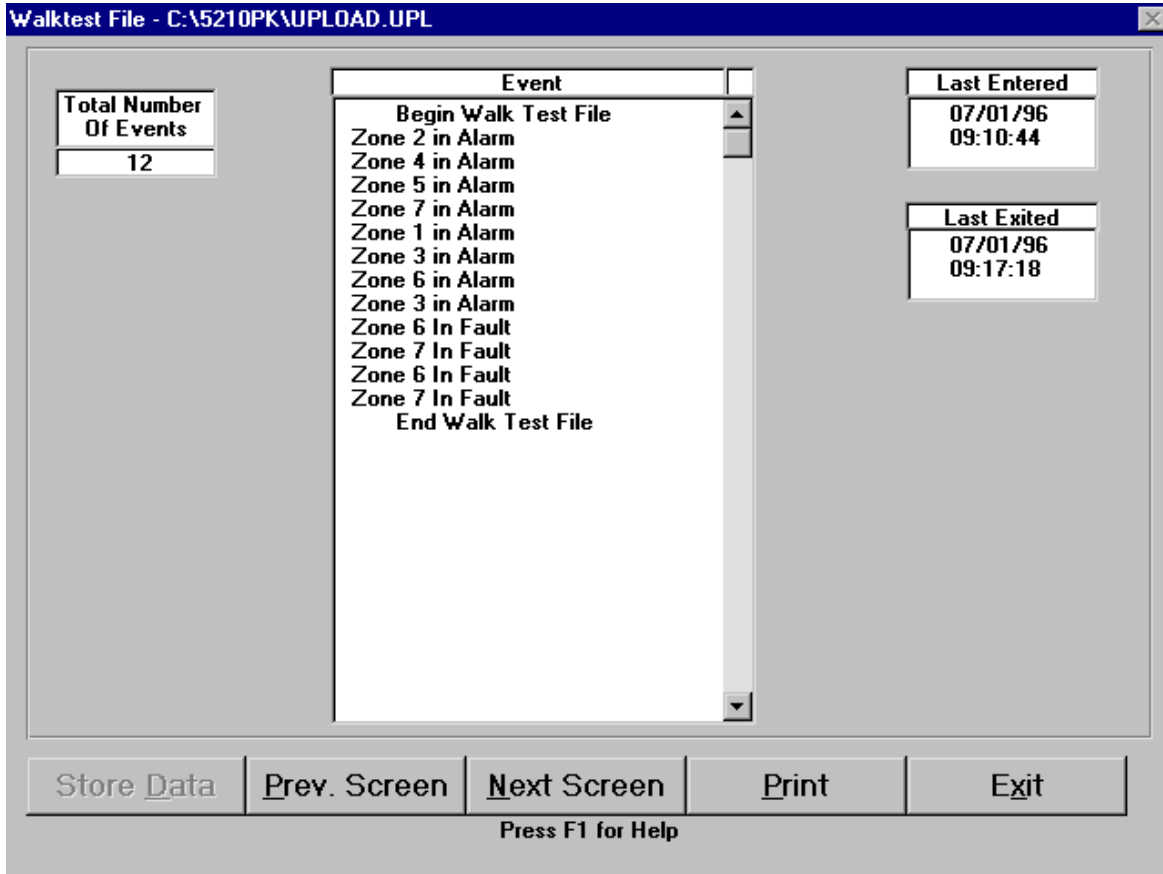
Store Data Prev. Screen Next Screen Print Exit

Press F1 for Help

3.1.6.1.4 Read Walktest Data

Clicking the *Read Walktest* button will display a screen similar to the one in Figure 3-27. The number of walktest activations will be listed, time and date of walktest and devices tested.

FIGURE 3-27:Read Walktest



3.1.6.1.5 Read Troubleshoot Data

Clicking the *Troubleshoot* button will display a list of actual FACP voltages and the normal and abnormal values for these voltages as shown in Figure 3-28. This feature allows the panel voltages to be analyzed by a service technician who is not on site.

FIGURE 3-28:Troubleshoot

Troubleshoot Voltages - C:\5210PK\UPLOAD.UPL				
Troubleshoot				
Zone #	Actual Voltage	Nominal Threshold Voltages		
		Normal W/ E.O.L	Shorted	Open Circuit
1	24.57	23.5 V	0.0 V	25.4 V
2	24.65	23.5 V	0.0 V	25.4 V
3	24.65	23.5 V	0.0 V	25.4 V
4	24.65	23.5 V	0.0 V	25.4 V
5	24.79	23.5 V	0.0 V	25.4 V
6	24.65	23.5 V	0.0 V	25.4 V
7	0.000	23.5 V	0.0 V	25.4 V
8	24.63	23.5 V	0.0 V	25.4 V
9	24.65	23.5 V	0.0 V	25.4 V
10	24.65	23.5 V	0.0 V	25.4 V
		Low	Normal	High
AC Line	116.8	102 VAC	115 VAC	132 VAC
NAC Bell 1	-4.28	< -0.5 V	-2.32 V	> -4.0 V
NAC Bell 2	-4.28	< -0.5 V	-2.32 V	> -4.0 V
NAC Bell 3	-----	< -0.5 V	-2.32 V	> -4.0 V
NAC Bell 4	-----	< -0.5 V	-2.32 V	> -4.0 V
Resettable 24V	25.44	21.60 V	24.00 V	26.40 V
Battery Voltage	25.59	20.40 V	24.00 V	28.00 V

Store Data Prev. Screen Next Screen Print Exit

Press F1 for Help

Note that two different methods for uploading troubleshoot data from the MS-5210UD are available:

- Snap Shot - uploads the data from the MS-5210UD only once. The *Read Troubleshoot* button can be selected to view the uploaded data
- Real Time - uploads the data from the MS-5210UD continuously at three second intervals and displays the data on the Read Troubleshoot screen until the *Exit* button is selected. After the *Exit* button is clicked, the operator can view the last Troubleshoot upload by clicking the *Read Troubleshoot* button

Note:

A PK-5210UD user located remotely can work with a single technician located at the FACP site in order to jointly troubleshoot a zone while fire protection is still active on the remaining zone(s). To perform this function, the PK-5210UD user must call the FACP, disable the zone(s) which will result in an FACP disconnect and call to the Central Station, and reestablish the call by requesting a real-time troubleshoot upload. Refer to "Upload/Download" on page 24, for information on real-time troubleshoot upload. If the PK-5210UD user is utilizing the 'callback bypass' feature, the sequence is the same with the exception that the upload/download status messages occur at the same time as the Central Station call-in for the zone disable. Refer to "Upload Sequence" on page 26, for 'callback disabled' feature.

If the PK-5210UD user wishes to avoid being disconnected upon disabling a zone, the technician can disable the zone locally prior to the user calling the FACP. Do not forget to turn the zones back on (reenable) when testing is concluded.

3.1.6.1.6 Read System Status Data

Clicking the *System Status* button will display the FACP zone and other circuit status at the time of the upload as illustrated in Figure 3-29.

Note that two different methods for uploading the system status from the MS-5210UD are available:

- Snap Shot - uploads the system status from the MS-5210UD only once. The *Read System Status* button can be clicked to view the uploaded data
- Real Time - uploads the system status from the MS-5210UD continuously at three second intervals and displays the data on the Read System Status screen until the *Exit* button is clicked. After the *Exit* button is clicked, the operator can view the last System Status upload by clicking the *Read System Status* button

FIGURE 3-29: System Status

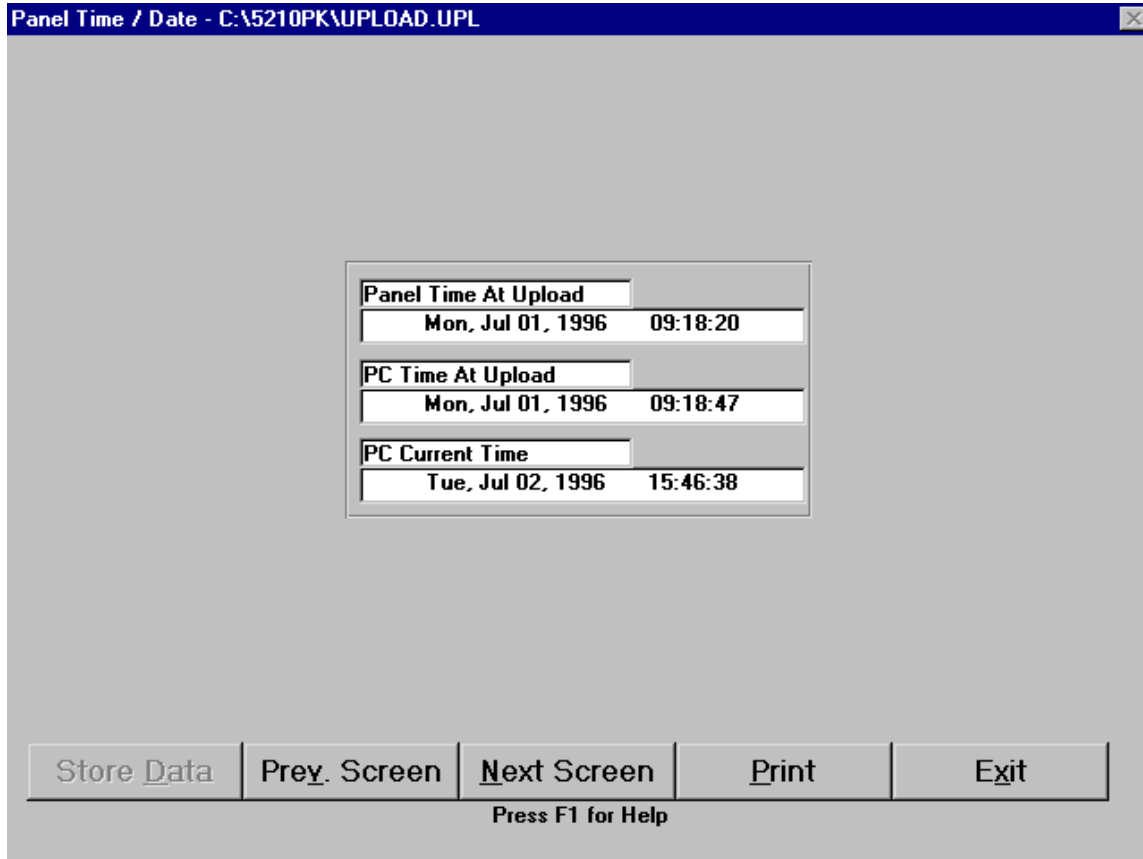
Status Report - C:\5210PK\UPLOAD.UPL			
Description	Status	Description	Status
Zone 1 -	Normal	NAC #1 -	ON/ Normal/ Enabled
Zone 2 -	Normal	NAC #2 -	ON / Normal/ Enabled
Zone 3 -	Normal	NAC #3 -	OFF/ Normal/ Enabled
Zone 4 -	Normal	NAC #4 -	OFF/ Normal/ Enabled
Zone 5 -	Normal	Relay #1 -	ON
Zone 6 -	Normal	Relay #2 -	ON
Zone 7 -	Alarm	Relay #3 -	OFF
Zone 8 -	Normal	Relay #4 -	OFF
Zone 9 -	Normal	Piezo -	ALARM
Zone 10 -	Normal	System Silence -	Not Silenced
Battery -	Normal	Manual Evacuate	Not Enabled
Earth Fault -	None	AC -	Normal

Put the cursor in the data entry field and press F1 for Help

3.1.6.1.7 Read Time and Date

Clicking the *Read Time/Date* button will display the FACP and PC time and date at the time of the upload as well as current PC time and date as shown in Figure 3-30.

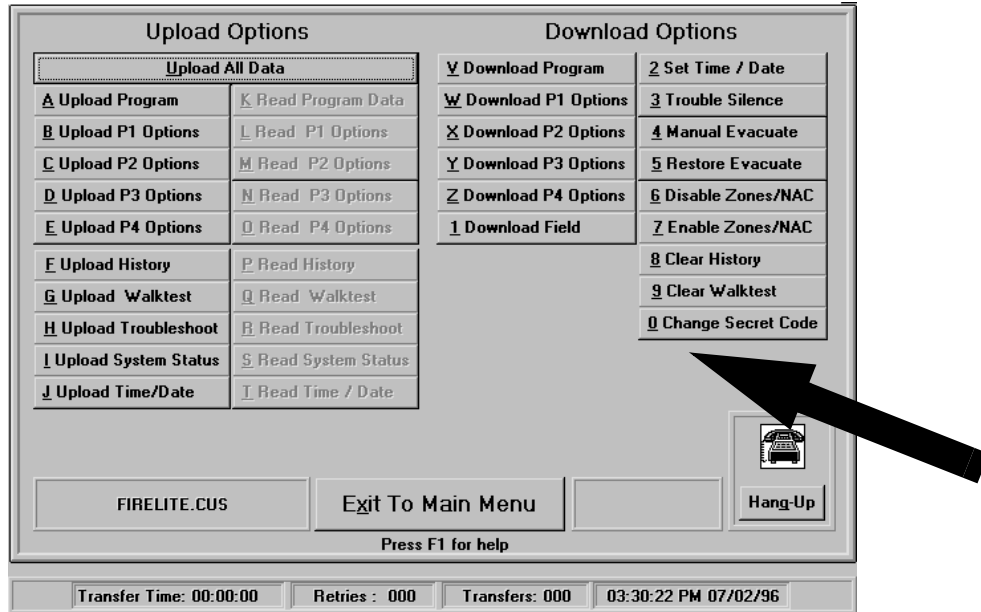
FIGURE 3-30:Read Time/Date



3.1.6.2 Download Options

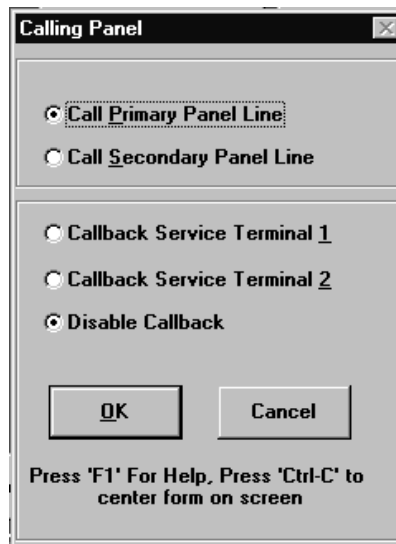
This option allows the user to transmit programming data to the MS-5210UD control panel or to execute various control panel functions. The user may transmit any or all Program Data, P1 through P4, or the user may transmit a single program field (such as a phone number). The remaining download buttons illustrated in Figure 3-31 are discussed later.

FIGURE 3-31:Download Options



Before using this function, the program and Customer ID that is to be sent to the FACP must be specified in the Customer Information section of the PK-5210UD programming utility. See “Customer File Utilities” on page 20. Clicking most of the Download buttons illustrated in Figure 3-31, will display the screen shown in Figure 3-32. Select the FACP primary or secondary phone line for transmission to the panel and the service terminal phone number (1 or 2) to be used for callback. Clicking the *OK* button or pressing Enter will commence the download process.

FIGURE 3-32:Download



Download with Callback Enabled

Downloads can be done in a variety of ways, with or without callback. The following message sequence displays on the screen for a download with callback enabled:

1. Calling the Panel
2. Dialing Panel @ xxx (where xxx is panel phone number)
3. Waiting for Modem to Connect
4. Verifying Secret Code
5. Downloading (download file) to Panel
6. Requesting Callback to Phone zzz (where zzz is the Service Terminal Phone Number)
7. Waiting for Callback
8. RING
9. Connecting with Panel
10. Verifying Secret Code
11. Downloading (download file) to Panel
12. Packet Received by Panel

Note: Items 5-10 above will not occur for the first download to an MS-5210UD FACP. They will occur on all subsequent downloads.

When the 'Packet Received' by Panel message is displayed, downloading is complete and a new option may be selected. Communication will terminate if the user clicks the *Hang-up* or *Exit to Main Menu* button or if the FACP terminates communication.

Download with Callback Disabled

The following message sequence displays on the screen for a download with callback disabled:

1. Calling the Panel
2. Dialing Panel @ xxx (where xxx is panel phone number)
3. Waiting for Modem to Connect
4. Verifying Secret Code
5. Requesting Disable Callback
6. Downloading (download file) to Panel
7. Packet Received by Panel

Communication will terminate if the user clicks the *Hang-up* or *Exit to Main Menu* button or if the FACP terminates communication. Note that once communication has been established with the FACP, each of the operations may be selected without reestablishing communications as long as selections are made before the two minute time-out.

WARNING:

Changes to control panel program entries occur as a result of the downloading process. After successful downloading, make certain to perform the following steps:

1. Print out all program data via control panel print mode or Service Terminal Print File Utilities (after a complete Program Upload). Compare to the intended data
2. Test all affected control panel operations
3. Immediately correct any problems found

Listed under the Download option are 10 additional download operations as described in the following sections.

3.1.6.2.1 Download Field

Selection of this option displays the screen shown in Figure 3-33 on page 36. This screen is very similar to the screen provided in the Download File Utilities function with the exception being that an additional *Download Field* button exists and the *Store Data* button is disabled. The screen and its buttons allow the user to access any programmable control panel item with the ability to download the item as a field. An item or field is defined as a group of program addresses that, together, provide a function. An example is the Primary Phone Number field which comprises 16 program addresses (one address per digit).

To download a field, the user must click on the data entry area of the field, change the data as desired, click on the caption (descriptive text) area of the field and click the *Download Field* button. Upon completion of the download, a message appears to inform the user that the changes have been saved in the program file defined for the current customer. From this point, communications commence as defined earlier.

FIGURE 3-33:Download Fields

Programmable Addresses - C:\5210PK\1234.DNL			
Program Section 1: - Programmable Addresses 0 - 67			
Primary Phone Number	9C4841008FFFFFF	Communicator Enable	0 Panel Only
Primary Comm Format	E Contact ID	Secondary Central Station	0 Used As Backup
Primary Account Code	1234	Touchtone Rotary Select #1	0 Touchtone
Primary 24 Hour Test Time	0000	Make Break Ratio #1	0 67/33
Primary # Test Time Interval	0 24 Hour	Touchtone Rotary Select #2	0 Touchtone
Secondary Phone Number	9C4841008FFFFFF	Make Brake Ratio #2	0 67/33
Secondary Comm Format	1 4+2 Exp 14/23	Ground Start Phone Line #1	0 No Ground Start
Secondary Account Code	5678	Ground Start Phone Line #2	0 No Ground Start
Secondary 24 Hour Test Time	0000	Zone 1 Function Select	0 2 Wire Smoke
Secondary # Test Time Interval	0 24 Hour	Zone 2 Function Select	0 2 Wire Smoke
Alarm Presignal	0 Disabled	Zone 3 Function Select	0 2 Wire Smoke
Alarm Presignal Delay Time	120 Seconds	Zone 4 Function Select	0 2 Wire Smoke

Select a field to download by clicking on the caption - Then click on Download Field

Download Field				
Program 1	Program 2	Program 3	Program 4	About File
Store Data	Prev. Screen	Next Screen	Print	Exit

Put the cursor in the data entry field and press F1 for Help

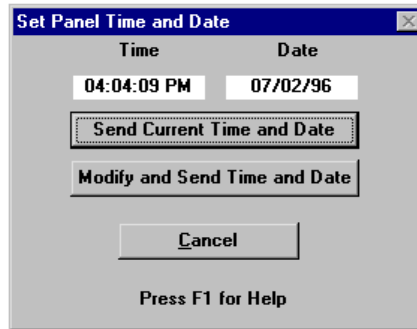
Notes:

- Fields that are downloaded are automatically saved in the program file to force consistency between the control panel and the program file. If the user exits the download field function without downloading, no changes are saved
- Only one field can be downloaded for each click of the *Download Field* button
- Changing the functionality of a zone in Program Level 1 may automatically change the alarm and restoral event code for that zone in Program Level 2. Refer to the MS-5210UD Technical Manual regarding zone function programming
- If you wish to modify only Program Level 2 addresses in the control panel, you must perform a Program Level 2 download only. Downloading Program Level 1 after downloading Program Level 2 may result in automatic reprogramming of Program Level 2 event codes to their default values as listed in the MS-5210UD Technical Manual
- Field downloads for site unique changes to Program Level 2 event codes must be done after all downloads to Program Level 1 have been completed
- If you attempt to download a Program Level 2 field to a control panel whose communication format does not match, the control panel will deny the request

3.1.6.2.2 Set Time/Date

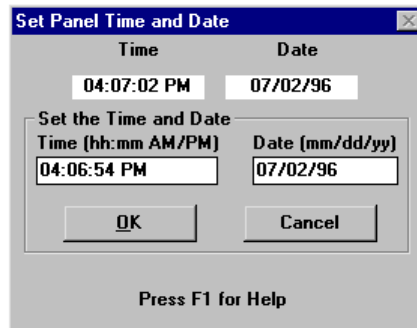
Selection of this option will display the screen shown in Figure 3-34. To download the time and date as displayed in this screen, click the *Send Current Time and Date* button. The screen shown in Figure 3-36 will appear. Make the appropriate selections in this screen and click the *OK* button to perform a download.

FIGURE 3-34: Set Time/Date



If the time and/or date are to be changed, click the *Modify and Send Time and Date* button. The screen shown in Figure 3-35 will appear. Place the cursor in the time or date box and click, then type the correct values. After completing the entries, click the *OK* button. The screen shown in Figure 3-36 will be displayed. Make the appropriate selections and click the *OK* button to perform the download operation.

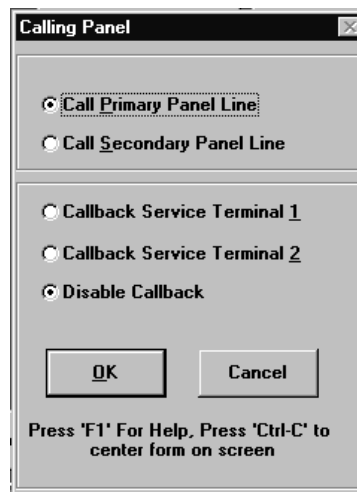
FIGURE 3-35: Modify Time and Date



3.1.6.2.3 Trouble Silence

If a trouble exists in the panel and there is no active fire alarm, the FACP piezo sounder may be remotely silenced with this feature. Selection of this option will display the screen shown in Figure 3-36. After making the appropriate selections, click the *OK* button to silence the panel.

FIGURE 3-36: Send to Panel



3.1.6.2.4 Manual Evacuate

This feature will force the fire alarm control panel to perform a drill which will sound all of the notification appliances. Selection of this option will cause the screen shown in Figure 3-36 on page 37, to be displayed. Select the primary or secondary panel phone line and service terminal 1 or 2 for callback and then click the *OK* button to download the manual evacuate instruction to the panel.

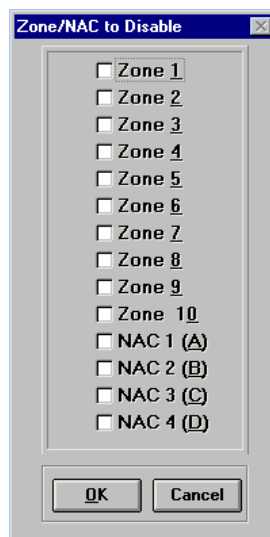
3.1.6.2.5 Restore Evacuate

This feature allows the remotely initiated Manual Evacuate (Drill) function to be cleared. Selection of this option will display the screen shown in Figure 3-36 on page 37. Make the appropriate selections and click the *OK* button to clear the Manual Evacuate function.

3.1.6.2.6 Disable Zones/NACs

The control panel zones or NACs may be disabled from the service terminal with this feature. Selection of this option will cause the screen shown in Figure 3-37 to be displayed. Using the mouse, click the Zone/NAC to be disabled. Note that an X will appear in the box next to the selected zones/NACs. Clicking the *OK* button will display the screen from Figure 3-36 on page 37. Make the appropriate selections in this screen and click the *OK* button to disable the selected zones/NACs.

FIGURE 3-37:Enable/Disable Zones/NACs



Note: Disabling any zone or NAC results in termination of communications by the FACP such that the FACP can report the disable to the Central Station(s). This occurs only if the FACP Central Station communication is enabled.

3.1.6.2.7 Enable Zones/NACs

The control panel zones or NACs may be enabled using this feature. Selecting this option will cause the screen similar to the one shown in Figure 3-37 to be displayed. Select the zones/NACs to be enabled (as in Disable Zones) and click the *OK* button. The screen shown in Figure 3-36 on page 37, will appear. Make the appropriate selections and click the *OK* button to enable the selected zones/NACs.

Note: Enabling any zone or NAC results in termination of communications by the FACP such that the FACP can report the enable to the Central Station(s). This occurs only if the FACP Central Station communication is enabled.

3.1.6.2.8 Clear History

This option will clear the history buffer in the MS-5210UD control panel. Selection of this option will display the screen shown in Figure 3-36 on page 37. Making the appropriate selections and clicking the *OK* button will clear the panel history buffer.

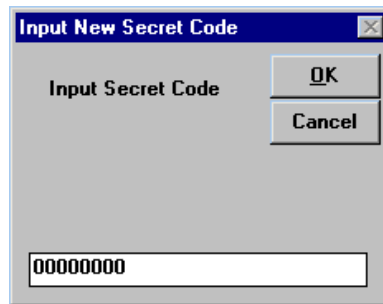
3.1.6.2.9 Clear Walktest

This feature will clear the panel walktest event buffer. Selection of this option will display the screen shown in Figure 3-36 on page 37. After the appropriate selections have been made, click the *OK* button to clear the panel walktest event buffer.

3.1.6.2.10 Change Secret Code

Selection of this option will display the screen shown in Figure 3-38. Refer to “Secret Code” on page 43, for information on the Secret Code. Type the new Secret Code (8 characters maximum) and click the *OK* button or press the Enter key. The new Secret Code is sent to the FACP and the customer file at the service terminal is automatically updated.

FIGURE 3-38:Change Secret Code



3.1.7 Print File Utilities

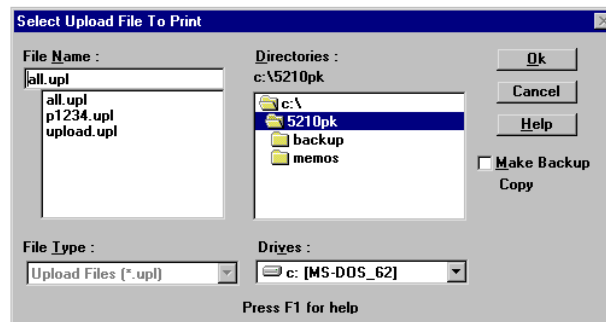
This option provides a hard copy of selected program files. Clicking the *Print File Utilities* button in the Main Menu screen will cause the screen shown in Figure 3-39 to be displayed.

FIGURE 3-39:Print Files



Click the *Print Upload File* or *Print Download File* button to select the file to be printed. The screen illustrated in Figure 3-40 will prompt for the name of the file to be printed.

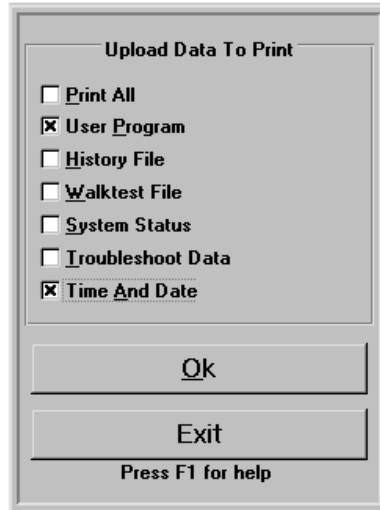
FIGURE 3-40:Print Upload Files



If the selection was Print Download File, after entering the filename in the screen shown in Figure 3-40 on page 39, and clicking the *OK* button, the download program file will be printed immediately.

If the original selection was Print Upload File, after typing the filename and clicking the *OK* button, the new screen shown in Figure 3-41 will be displayed. Select one or all of the Upload File options to be printed by clicking the items desired. Note that an X will appear in the selected boxes. To deselect, click the item a second time and the X will clear. Click the *OK* button and the file will be printed.

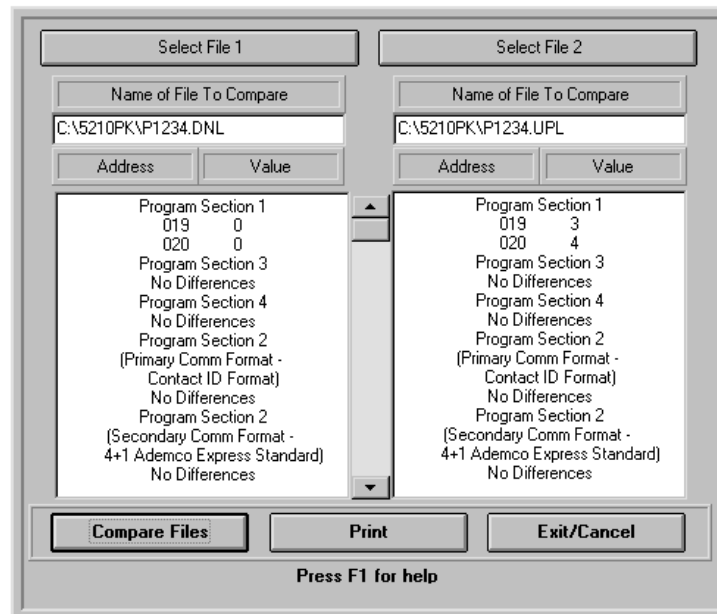
FIGURE 3-41:Print Upload File



3.1.8 File Compare

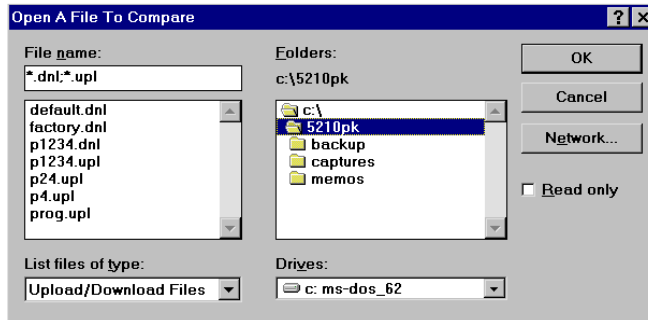
This option provides an on screen display which allows the viewing of the differences between two different upload/download files. The two files can be selected and displayed side-by-side. The program will compare the two upload/download files and detail whether sections of the programs are identical or different. If differences are detected, the screen will list the program differences. Clicking the *File Compare* button will display the screen illustrated in Figure 3-42.

FIGURE 3-42:Compare Files



The files to be compared must have the filename extension of **.upl** or **.dnl** and the files must have been created by the PK-5210UD software. To compare files, select file 1 and file 2 by clicking the *Select File 1* and *Select File 2* buttons shown in Figure 3-42 on page 40. Clicking either of these buttons displays the screen in Figure 3-43.

FIGURE 3-43:File Select



After selecting these files, click the *Compare Files* button to get the differences between files. The screen will appear as shown in Figure 3-42 on page 40. If you want to print the results, click the *Print* button.

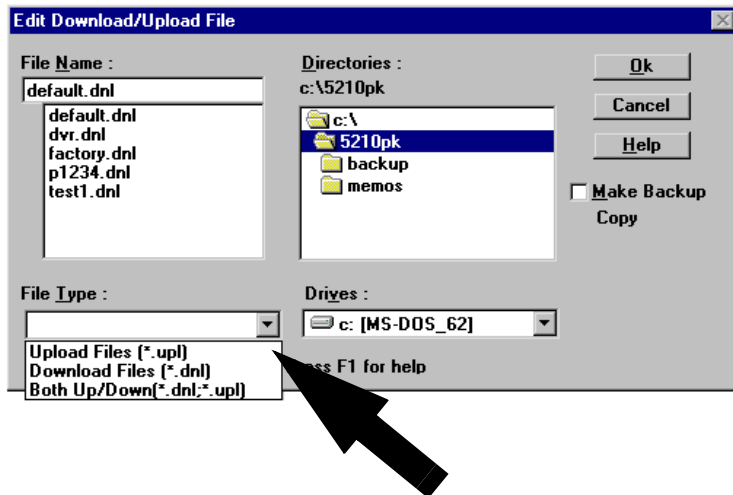
3.2 Converting an Upload File to a Download File

There may be an occasion when it is necessary to upload a control panel’s program, save it and convert it into a download file which could be used to program another control panel. The PK-5210UD package is capable of doing this via the *Download File Utilities* button on the Main Menu.

To perform a file conversion, first upload and save an entire control panel program as described in the Upload Options section of this manual. Note that an upload file cannot be converted if it doesn’t contain the entire control panel program (Program Level 1 through Program Level 4). View the upload file using the Download File Utilities described in the Download Options section of this manual. The *Edit Download File* button allows you to select upload files with an extension of **.upl**, as shown in Figure 3-44. Upon clicking *OK* for your file choice, the upload file is automatically converted to a download file. The new download file must be saved as a file with an extension of **.dnl**.

Note that the new file cannot be changed or saved if the user’s Access Level is Level 2 or Level 3. Refer to “Password Protection” on page 46.

FIGURE 3-44:File Conversion



3.3 Download Initiated by the MS-5210UD Control Panel

In order to simplify programming of a new (factory defaulted) control panel, a convenient feature exists whereby the control panel can initiate a program (Level 1 through Level 4) download from the Service Terminal. In order to utilize this feature, the following preconditions are required:

- An operator must be at the control panel site and must have manually programmed at least one Service Terminal phone number if none was previously entered
- The control panel must be in the Normal Mode of operation
- Control panel to Central Station communication is not in progress
- The Service Terminal must be displaying the Upload/Download options screen with no communication in progress. The Program file that is intended to be programmed must be properly assigned in the active customer file. In addition, the secret code in the customer file must be '00000000' (all zeroes). See "Customer File Utilities" on page 20.

The control panel operator initiates the download as defined in Section 6.2 'Downloading Initiated at Control Panel' of the MS-5210UD Technical Manual. The following message sequence will display on the Service Terminal screen:

1. Ring
2. Verifying Secret Code
3. Connecting with Panel
4. Downloading (download file) to panel
5. Packet Received by Panel

Communications will terminate if the user clicks the *Hang-up* or *Exit to Main Menu* button or if the control panel terminates communication. Subsequent downloads can be initiated from the same control panel provided the secret code in the active customer file matches the secret code in the control panel.

WARNING:

Changes to control panel program entries occur as a result of the downloading process. After successful downloading, make certain to perform the following steps:

1. Print out all program data via control panel print mode or Service Terminal Print File Utilities (after a complete Program Upload). Compare to the intended data
2. Test all affected control panel operations
3. Immediately correct any problems found

CHAPTER 4 *Security Features*

Security features have been made an integral part of the PK-5210UD software to maximize FACP integrity and reliability. These features include the following:

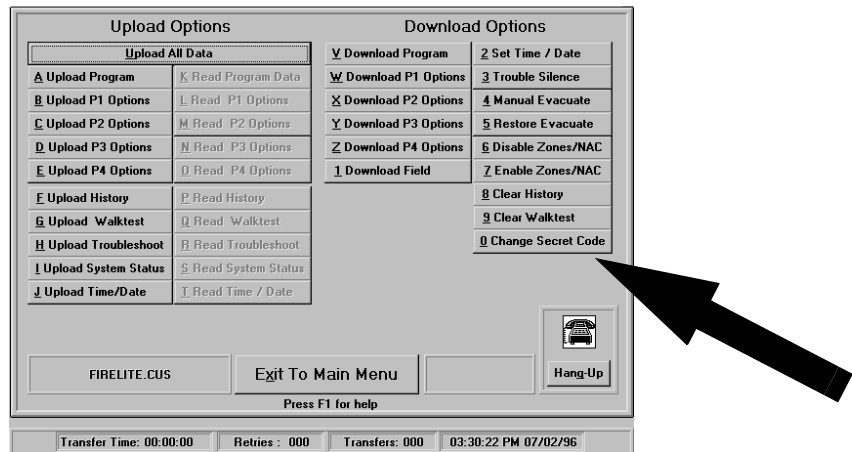
- restricted access to the program
- panel callback to service terminal
- control panel time-out
- data error checking
- central station acknowledged
- central station data protection

4.1 Secret Code

The Secret Code for each MS-5210UD control panel is set to a factory default value of **00000000**. The Secret Code for each panel should be customized by the PK-5210UD user. The code can only be changed through an initial download to the FACP or by using the Change Secret Code option of the Upload/Download utility.

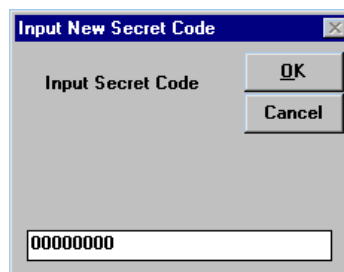
To Change the Secret Code after it has been established by an initial download, select *Upload/Download* from the Main Menu. The screen shown in Figure 4-1 will appear.

FIGURE 4-1:Upload/Download



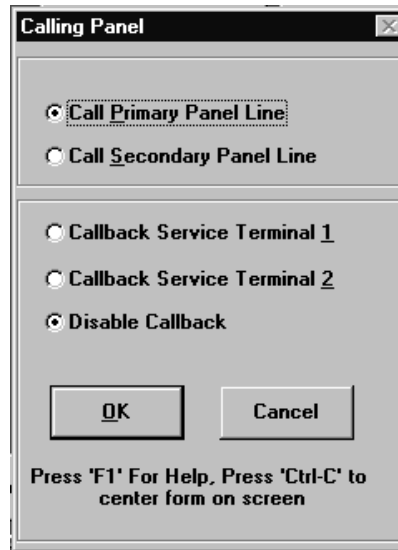
Clicking the Change Secret Code button will cause the screen shown in Figure 4-2 to be displayed. A flashing cursor will be positioned in the box at the bottom of this screen.

FIGURE 4-2:Change Secret Code



Type in from 1 to 8 characters for the new Secret Code. Use the mouse arrow to click the *OK* button or press the Enter key. The dialog box shown in Figure 4-3 will be displayed. Select either the primary or secondary phone line to call the panel and service terminal 1 or 2 to receive the callback from the panel. Once the selections have been made, click the *OK* button to download the new Secret Code to the FACP. The Customer File is automatically updated with the new Secret Code.

FIGURE 4-3:Download Secret Code



4.2 Panel Callback

Upload or download operations may require the FACP to callback the service terminal initiating the call before proceeding with a data transfer. Note that 'disable callback' may be selected by the master operator which will allow the operator to complete an upload/download from any service terminal location. This callback procedure is incorporated in the software for the following reasons:

- Confirmation of service terminal initiating call
- Insures that only authorized service terminal can access the FACP
- FACP must notify the Central Station(s) of request for upload or download. If Central Station(s) denies the request, the FACP will not callback the service terminal

Notes:

1. The Central Station is capable of delaying or inhibiting the request for upload or download only if FACP address 56 is programmed to a value other than zero (0). Refer to the MS-5210UD Technical Manual for additional information
2. A PK-5210UD user might be in a location other than the usual service terminal site which results in the programmed FACP service terminal phone numbers not matching the user's location. If this is the case, the PK-5210UD 'Callback Bypass' feature can be used to inhibit the service terminal callback sequence, thus allowing the user to effectively communicate with the FACP
3. The 'Callback Bypass' feature will not inhibit the FACP from calling the Central Station when the user enables/disables a zone or NAC or when the user activates/restores a fire drill. For these actions, the FACP will hang-up the phone and call the Central Station. The user will observe a communication disconnect and must reestablish the call.

4.3 Control Panel Time-out

The MS-5210UD software has been designed to terminate communications with a service terminal if valid data is not received within a specific period of time. Reasons for the termination are as follows:

- If the modem connect sequence does not occur within 30 seconds of the FACP answering a call, the FACP will terminate (hang-up) the call. This is a protection against wrong numbers interfering with normal FACP operations
- Following the connection of the FACP and service terminal modem, any errors occurring during message, command or data transfers will prompt an attempt to retransmit the information. If transmission errors continue with each retry, the FACP will terminate the call after two minutes
- Following the connection of the FACP and service terminal modem, any delay of two minutes or more in initiating a data transfer will result in the FACP terminating the call
- After answering a call from the service terminal, the FACP will attempt to callback the service terminal a maximum of four times. If the Secret Code is not verified after the fourth attempt, the FACP will hang-up and notify the Central Station(s) of the failed upload/download attempt. Possible reasons for failure of the service terminal to answer a callback are as follows:
 - ✓ Service terminal phone lines inoperative
 - ✓ Service terminal modem failure
 - ✓ Service terminal screen initiating call has been exited before receiving callback
 - ✓ Data transmission errors have occurred prompting up to a two minute time-out. Four callbacks have been made each resulting in up to a two minute time-out

4.4 Error Checking

Data from the service terminal is transmitted to a temporary holding buffer in the FACP. This data is verified by the FACP for integrity and if the data is correct, it will be transferred from the temporary buffer to the panel memory for permanent storage and immediate use.

If the data is found to be incorrect, the FACP will request the service terminal to retransmit the data. If the retransmitted data is still incorrect, the FACP will continue to request retransmission for a maximum of two minutes. If still unsuccessful, the FACP will terminate the connection. Should a failure to transmit occur, the operator must reinitiate the sequence at the service terminal. If this should occur, consult the factory.

4.5 Central Station Acknowledge

The FACP will report to the Central Station(s) that a request for upload or download has been received if FACP program address 56 does not equal zero (0). If the Central Station(s) does not acknowledge receipt of this request, uploading or downloading is prohibited. If acknowledged by the Central Station(s), another message is transmitted by the FACP informing the Central Station(s) that:

- ✓ downloading was successful
- ✓ uploading was successful, or
- ✓ uploading/downloading was not successful

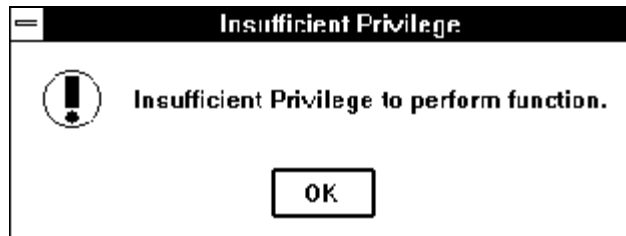
4.6 Password Protection

The PK-5210UD provides for four user access levels, each requiring a password for access. See “Operator Information” on page 14, for a description about this process.

- Level 0 is reserved for the Master(s). All PK-5210UD options are available to the Master. In addition, the Master must assign all other levels and their passwords and may view Operator Information
- Level 1 has access to all options except the assignment of level access and passwords and Level 1 cannot disable Central Station callback. A Level 1 user can view only their own Operator Information and can change only their own password
- Level 2 can upload from the FACP, view the upload data, print the upload and download data, change the modem configuration and view the download data but not edit and save it. A Level 2 user can view only their own Operator Information and can change only their own password
- Level 3 can only view and print the upload data. A Level 3 user can view only their own Operator Information and can change only their own password

If a user attempts to access an unauthorized level, the screen shown in Figure 4-4 will be displayed.

FIGURE 4-4:Access Denial



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