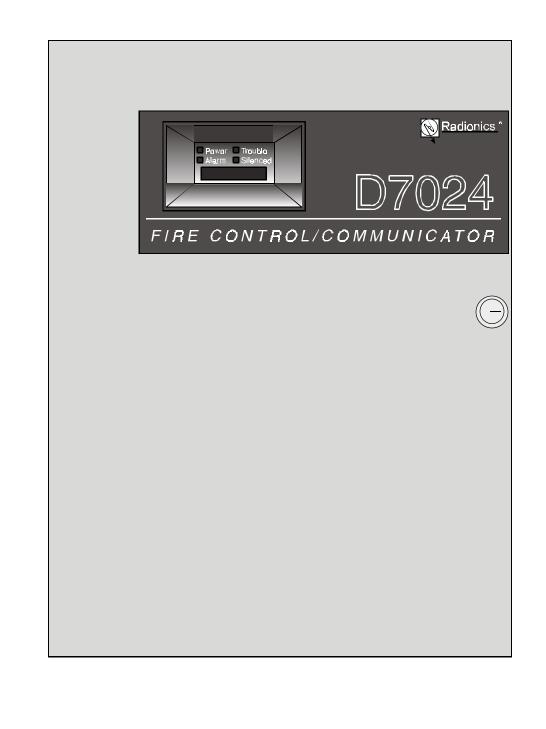
Reference Guide for the D7024 Control/Communicator





Radionics, Inc., 1800 Abbott Street Salinas, CA 93901, U.S.A. Customer Service: (800) 538-5807 6/20/97

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FCC Compliance Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Phone Connection to Users

This control complies with Part 68 of the FCC rules.

On the inside of the enclosure is a label that contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your local telephone company.

The REN is useful to determine the quantity of devices that may be connected to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company to determine the max. REN for your local calling area.

This equipment may not be used on coin service provided by the telephone company. This control should not be connected to party lines.

Should this equipment cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advanced notice isn't practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service. If you experience trouble with this equipment, please contact the manufacturer for information on obtaining service or repairs.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The repairs to this equipment must be made by the manufacturer and not the user.

To guard against accidental disconnection, there is ample room to mount the Telco jack to the inside of the Control cabinet.

The operation of this Control may also be affected if events such as accidents or acts of God cause an interruption in telephone service.

Notice

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

1.0 Overview

1.1 System Overview

The D7024 Control/Communicator is a fully integrated hard-wire fire alarm system. It can support 4 input points (expandable to 8) and 16 individual users. The control panel has a built-in LCD keypad, however, up to 4 additional keypads may be used to provide user interface with the system and programming access for the installer. The D7024 also includes the following features:

- Built-in Dual-line Communicator
- Menu Driven Keypad Programming
- Freely Programmable Alpha Display
- 100 Event History Buffer
- 16 User Codes
- U.L. Listed, C.S.F.M. Approved

1.2 Specifications

1.2.1 Enclosure Housing

The standard enclosure is manufactured from 18 Ga., cold-rolled steel, and measures 15 in. Wide, by 20.75 in. High, by 4.25 in. Deep (38.1 cm Wide, by 52.7 cm High, by 10.8 cm Deep). A keyed lock is included, and the LEDs and display are visible through the door.

1.2.2 Temperature

 Storage and Operating Temperature: +32° to +120°F (0° to +49°C)

1.2.3 Power

- Input Power: 120 V, 60 Hz, 1.5 A (max. 20 A fused)
- Notification Appliance Circuit Power: 24 VDC nominal, unfiltered (special application) with up to 2.5 A capacity (but limited by overall 4.0 A capacity). Refer to Technogram P/N 34950B for compatible devices
- Auxiliary Power: 24 VDC nominal, unfiltered (special application) Refer toTechnogram P/N 34950B
- Initiating Circuit (Smoke) Power: 24 VDC nominal Refer to Technogram P/N 34445B
- Option Bus Power: 12 V +/- 5%, 500 mA
- Optional Standby Batteries: Two 12V (in series), 7 - 40 AH

1.2.4 Outputs

- 2 on-board notification circuits NAC 1 and NAC 2. These are 24 V outputs for notification devices with up to 2.5 A capacity (but limited by overall 4.0 A capacity) on each circuit.
- Wired for standard Class B operation.
- Local Relays: The main panel includes two Form "C" relays. The relay contacts are rated at 6 A, 24 VDC. No transient suppression or overcurrent limiting are performed on the contacts of these relays. The default selection for the relays is to indicate general alarm and general system trouble. By programming them to one or two of the zone numbers described for point/zone mapping, they can be programmed to activate on a variety of conditions.
- Remote Relay Module (D7035): The D7035 is an Octal Relay Module that provides 8 Form "C" relay outputs. It connects to the D7024 via the option bus. The outputs are fully programmable, exactly as the local relays are programmed. Each output operates independently of the other 7 to provide complete flexibility. Communication with the D7035 is supervised.

1.2.5 Points (Initiating Circuits)

All points work with 2 or 4-wire detectors. The system has an optional alarm verification feature.

- Number of 2-wire Circuits: 4 circuits, expandable to 8
- Type of Circuit: Class B, Style B
- End-of-Line Resistor: 2.21k ohms, P/N 25899 U.L. Listed
- Supervisory Current: 8 - 20 mA
- Required Current for Alarm: 25 mA
- Maximum Short Circuit Current: 44 mA
- Maximum Line Resistance: 150 ohms
- Circuit Voltage Range: 20.4 to 28.2 VDC
- Maximum Detectors per Point: 20 detectors (2-wire)
- Total Detector Standby Current: 3 mA max.
- Response Time: 500 milli-seconds and programmable from 1 second to 15 seconds.

1.0 Overview (continued)

1.2.6 Keypads

- Maximum # of keypads: 4 D7033 keypads
- Maximum wire length each: 1000 feet
- Maximum wire length total: 4000 feet in system
- Wire type: 4 conductor, unshielded, #22 AWG (0.8 mm) "Telephone quad" or #18 AWG (1.0 mm) quad wiring can be home-run or daisy-chained.
 - Note: No more than 2 keypads recommended on any 1000 foot run.
 - **Note:** Shared cable is not recommended for keypad, multiplex, options bus, telephone, or siren wiring.

1.2.7 Communicator

Will report to two (2) phone numbers with full single, double, and back-up reporting. Communicates in SIA, Contact ID, BFSK, and 4/2 Tone burst formats.

1.2.8 Users

The system allows up to 16 individual users. Each user can have his own PIN number (the 4 digit code entered at the keypads) and his own authority level (to determine which functions he may perform).

1.2.9 Lightning Protection

MOVs and spark gaps provide protection from lightning surges and static discharges.

1.2.10 Backup Battery Calculation

• The following table is used to calculate the standby battery capacity required by NFPA when using the D7024:

Device	Quantity	Standby Current Per Device	Total Standby Current (Quantity x Standby Current Per Device)	Alarm Current Per Device	Total Alarm Current (Quantity x Alarm Current Per Device)
D7033 Keypad		100 mA		100 mA	
D7034 - 4 Point Expander		44 mA		**	
D7035 - Octal Relay*		10 mA + 40 mA*		10 mA + 40 mA*	
Smake Detectors				**	
Bells, Hørns, etc.					
Other sensors					
Other					
	·	Grand Total		Grand Total	

* = Whon calculating Standby and Alarm Curront for the Octal Rolay Module, use 10 mA plus 40 mA for each activated relay.

** = Will not exceed 40 mA per loop in alarm.

1.2.11 Standby Current Load

- Battery AH (20% Storage + 0.375 AH's Alarm)
- The following table is the derated battery divided by hours minus the control standby (175 mA):

Rechargeable Battery Size	Max. Standby for 24 hours	Max. Standby for 48 hours	Max. Standby for 60 hours	Max. Standby for 72 hours	Max. Standby for 80 hours
7 A H	Х	Х	Х	Х	х
8 A H	80 mA	Х	Х	Х	х
1 4 A H	2 80 mA	50 mA	Х	Х	х
15 A H	310 mA	70 mA	Х	Х	х
17.2 AH	3 80 m A	100 mA	50 mA	Х	Х
21 A H	510 mA	170 m A	100 mA	50 mA	Х
2 8 A H	740 m A	280 mA	190 mA	130 mA	100 mA
30 AH	810 mA	320 mA	220 mA	15 0 m A	12 0 m A
33 A H	910 mA	370 mA	260 mA	1 90 mA	15 0 mA
35 AH	980 mA	400 mA	290 mA	210 mA	17 0 mA
3 8 A H	1080 mA	450 mA	330 mA	240 mA	2 00 m A
40 AH	1 140 mA	480 mA	350 mA	2 60 m A	22 0 mA

Note: When batteries larger than 17.2 AH are used, an optional battery enclosure (Wheelock BATC-R) must be used. Battery wires must be #12 AWG (2.1 mm).

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2.0 Enclosure Installation

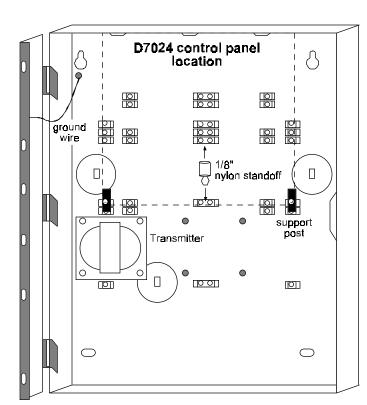
The D7024 control/communicator and the enclosure are shipped together. The control, however, still needs to be installed into the enclosre. Hardware for mounting the enclosure to a wall, and the control to the enclosure is located in the hardware pack.

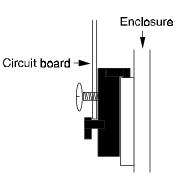
2.1 Install the Enclosure

- Use the enclosure as a template and mark the top mounting holes on the mounting surface.
- Pre-start the mounting screws for these two holes. Slide the enclosure onto these mounting screws so that the screws move up into the thinner section of the holes. Tighten the screws.
- Screw in the remaining two screws in either set of bottom mounting holes.
- Knock out the desired wire entrances on the enclosure.

2.2 Install the Control/Communicator

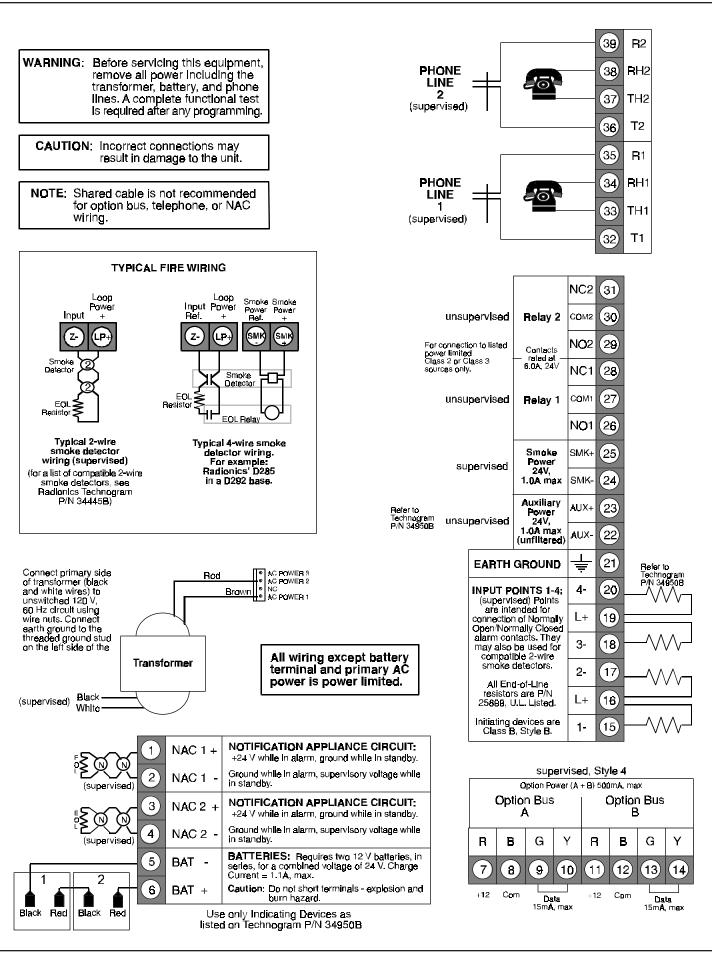
- CAUTION: The control is static sensitive. Make sure you touch ground before handling the control. This will discharge any static electricity in your body. Example: Run the ground wire to the enclosure before handling the control. Then keep holding the ground wire while installing the control.
- Insert the two support posts into the control retainer holes as shown in the diagram below.
- Press the 1/8" nylon standoffs into the control retainer holes as shown. This provides support behind the control.
- Slide the top of the control into the retainer tabs (the slots under the top of the frame).
- Once in the retainer tabs, the control will rest on the two support posts.
- Secure the bottom of the control by screwing the 2 bottom corners through the support posts and through to the control retainer holes.
- CAUTION: Once the control is installed, be sure to connect the supplied ground wire between the door and the enclosure using the supplied nuts.





Support Post Assembly





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4.0 System Worksheet

	Acco	unt Number_		Infor	mation	
Name			Contact Pe	erson		
Address			Voice Phon	ne Number		
			Panel Phon	ne Number		
City, State, Zip			Panel Ansv	vers Phone After	r [] Rings	
		Equipmen	t Location	and Notes		
AC Voltage	VAC	Battery Vol	tage	VDC	AUX Current	mA
Control Panel						
Telephone On Same Lin	ne as Panel					
Earth Ground Connection	on					
Initiating Devices						

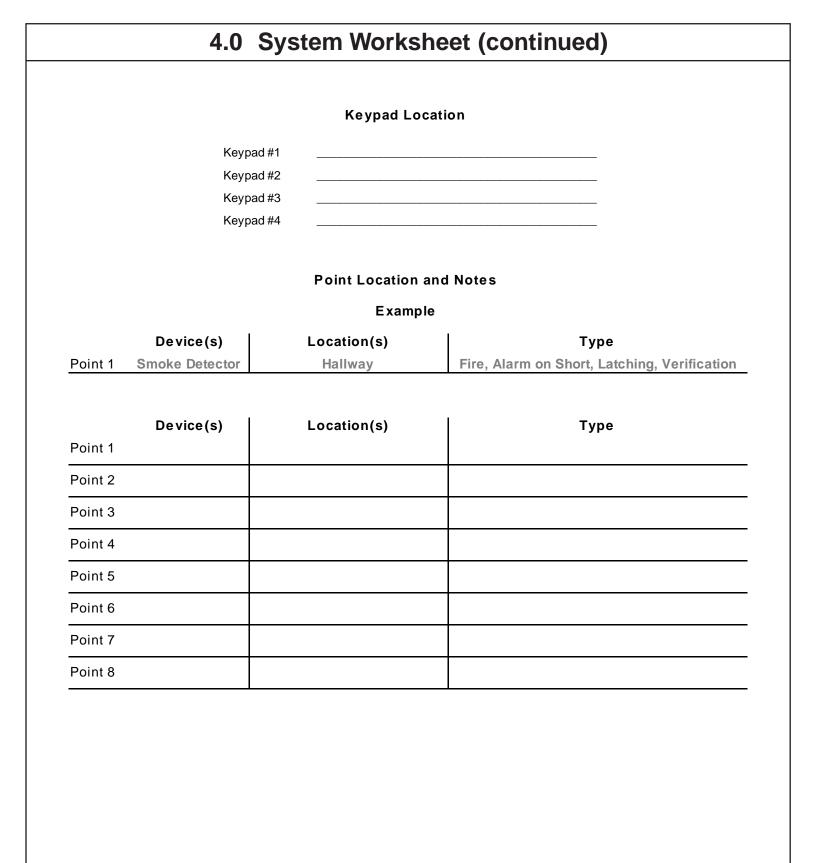
4.0 System Worksheet (continued)

Personal Identification Numbers

Example

	PIN Number	Authority Level	Name
User 00	1001	3	Henry M. Jones

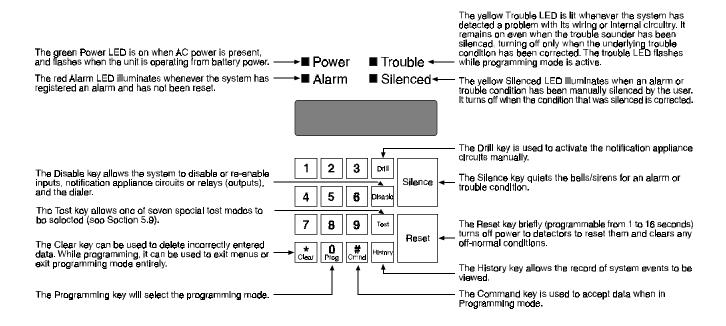
	PIN Number	Authority Level	Name
User 00			
User 01			
User 02			
User 03			
User 04			
User 05			
User 06			
User 07			
User 08			
User 09			
User 10			
User 11			
User 12			
User 13			
User 14			
User 15			



5.0 Operating Guide

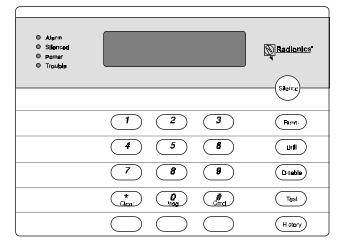
5.1 Understanding the Built-in Keypad

The keypad built-in to the control/communicator is an alpha-numeric LCD keypad. It has a two line by 16 character display to provide information on various control panel functions. In most instances, the top line of the display provides general system status information, while the second line describes specific devices that may be relevant to the current system status. When keys are being pressed, the display usually shows the current action on the top line, while displaying rotating menu choices on the second line. A built-in sounder is used to annunciate keystroke entries and as an interior warning device.



5.2 Understanding the D7033 Keypad

The D7033 keypad is an alpha-numeric LCD keypad. Up to four of these keypads can be mounted apart from the main control/communicator to provide additional locations for system status and control. The LCD display and keys operate identically to those of the built-in keypad on the control panel.



The volume and backlight intensity of the D7033 keypad can be changed in the following manner:

- Volume Control The keypad sounder volume can be adjusted using the [1] and [4] keys along with the [*] key. - Hold the [*] key while pressing the [1] key to increase the volume or the [4] key to decrease the volume.
- Backlight Control The display backlight intensity can be adjusted using the [3] and [6] keys along with the [*] key. - Hold the [*] key while pressing the [3] key to increase the brightness or the [6] key to decrease the brightness.

5.3 System Operation

5.3.1 Modes of System Operation

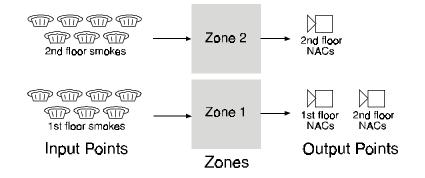
There are three modes of system operation for the D7024 control/communicator:

- Normal Operation: When the system is operating normally, it displays "SYSTEM NORMAL" on the top line of the display, the Power LED is on steady, and no other LEDs are lit. If the system is programmed to require a PIN, the second line of the LCD screen will display "ENTER PIN:", otherwise the control panel will bypass this display and will show a rotating menu of possible user actions.
- Alarm Operation: When an alarm occurs, the top line of the display will show "FIRE ALARM". This display will override any other system display. The second line of the display will show the number of the point that is in alarm, alternating with the programmed description for the affected point. If more than one alarm (or other off-normal condition) is active, they will be shown on the second line of the display, one after another. The built-in sounder turns on with a steady tone, and outputs programmed to activate with the current alarm condition(s) will activate.
- Trouble Operation: When a trouble condition occurs (e.g. wiring for a point is cut, AC power fails, etc.), the sounder will activate briefly, every 10 seconds. The Trouble LED will light and the top line of the display will show "SYSTEMTROUBLE". The second line of the display will identify the specific problem.

5.3.2 Point/Zone Mapping

The panel supports a system to map the input points to output points.

Input points are assigned, during installation, to a zone. Each input point can be assigned to only one zone; however, multiple input points can be assigned to the same zone. Output points are also assigned; however, they can be assigned to up to four different zones. This allows an alarm condition on an input device assigned to zone one to cause all of the output devices assigned to zone one to activate.



Assign input points to zones in [PROG/0] [4-PROG INPUTS] [3-ZONE ASSIGN]. Remember, each input point can only be assigned to one zone; however, a zone can have multiple input points assigned to it. In our graphic, above, there are 7 smoke detectors assigned to each zone. Output points (NACs) are assigned in [PROG/0] [5-PROG OUTPUTS] [3-ZONE ASSIGNS]. Here, individual output points can be assigned to up to four zones. This allows a smoke detector on the first floor of a building (assigned to zone 1) to cause horns (also assigned to zone 1) to sound on floors 1 and 2.

Up to 64 zones can be assigned. Zones 1 to 50 can be assigned by the installer. Zones 51 to 63 are preassigned to system conditions.

Preassigned Zones:

- Zone 63: General Alarm active while any alarm, including supervisory, is present; remains active even while system is silenced.
- Zone 62: General Trouble active while any system trouble is present.
- Zone 61: General Waterflow active while any waterflow alarm is present.

- Zone 60: No AC active when AC power fails.
- Zone 59: Alarm Verification active while alarm verification is in progress, starting with the first detection of an alarm to be verified and clearing at the end of the five second power stabilization time.
- Zone 58: General Supervisory Alarm active when any supervisory alarm condition is present.
- Zone 57: CommunicationTrouble active when the dialer has failed to communicate, or all monitored phone lines are indicating line fault; remains active until communication through the digital communicator has been restored.
- Zone 56: Presignal or Alarm Investigation Delay Active active during the time after a zone or point has been tripped, but before the NACs are activated.
- Zone 55: Releasing Cycle Started active after two detectors have been tripped to start a releasing cycle; clears when the release occurs or is aborted.
- Zone 54: Activates for ground start.
- Zone 53: General Fire Alarm active when a fire alarm condition is present; does not activate for waterflow.
- Zone 51 to 53 are reserved for future use.

5.4 Fire Silence/Reset

During a fire alarm, exit the premises immediately. Do not enter the premises unless accompanied by the appropriate Emergency Services' personnel, or after they have given the OK to enter. When it has been determined that there is no fire, you may silence the horns/bells to allow further investigation of the devices that initiated the alarm, or you may reset the system to return it to normal operation.

Before the [Reset] key is used, determine which smoke detector has alarmed so the monitoring company may verify its operation.

The [Silence] key turns off the horns/bells, but does not reset the alarm status and does not return the tripped input to normal service. Detectors that were tripped will stay in alarm and can be checked (usually by means of an LED on the device) to see which detector caused the alarm. Once the detectors causing the alarm have been identified, the system should be reset to return it to normal service.

The [Reset] key clears the system alarm status, and briefly turns off power to the detectors to reset them. This command is required after any fire alarm affecting a point programmed for latching operation (which is the normal configuration).

5.5 System Trouble

A system trouble will be indicated by a short beep from the panel or keypad sounders every 10 seconds. The LCD will display "SYSTEM TROUBLE", followed by a description of the trouble condition. The system can diagnose and display a variety of trouble conditions, including those affecting the input points, NAC circuits, power, battery, system grounding, and internal operations of the fire control panel. Notify your installing company immediately if the system trouble message is displayed.

The system trouble beep can be silenced with the [Silence] key. After problems have been remedied, [Reset] should be pressed to clear the "SYSTEM TROUBLE" display.

5.6 Fire Safety

WARNING: No fire detection device or system should be considered 100% foolproof.

This fire alarm system can provide early warning of a developing fire. Such a system, however, does not ensure protection against property damage or loss of life resulting from a fire. Any fire alarm system may fail to warn for any number of reasons (e.g. smoke not reaching a detector that is behind a closed door).

When considering detectors for residential applications, refer to NFPA Standard 72, "The National Fire Alarm Code." This standard is available at a nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

5.6.1 If Installed in Family Residences

Adherence to NFPA Standard 72 can lead to reasonable fire safety when the following items are practiced:

- Minimize hazards: Avoid the three traditional fire killers: smoking in bed, leaving children home alone, and cleaning with flammable liquids.
- **Providing a fire warning system**: Most fire deaths occur in the home, the majority, during sleeping hours. The minimum level of protection requires smoke detectors to be installed outside of each separate sleeping area and on each additional story of the dwelling.

For added early warning protection, it is recommended that detectors be installed in all separated areas including the basement, bedrooms, dining room, utility room, furnace room, and hallways.

5.6.2 Having and Practicing an Escape Plan

A fire warning may be wasted unless the family has planned in advance for a rapid and safe exit from the building.

- Draw a floor plan of the entire house showing **two** exits from each bedroom and **two** from the house. Since stairwells and hallways may be blocked during a fire, the plan should provide exits from bedroom windows. Make copies of the plan and practice it with all family members.
- Pre-arrange a meeting place **outside and away from** the residence. Once out of the building, all occupants should immediately go to the pre-selected location and be accounted for.
- Provide a barricade between family members and fire, smoke, and toxic gases (e.g. close all bedroom doors before retiring).
- Children should be instructed on opening their bedroom windows and exiting safely from the building. If exiting is not possible, they should be taught to stay at the open window and shout for help until it arrives.
- In the event of a fire alarm after retiring, wake the children by shouting to them from behind your closed door. Tell them to keep their bedroom doors closed.
- If the top of your bedroom door is uncomfortably hot, do not open it. There is most likely fire, intolerable heat, or smoke on the other side. Shout to all family members to keep their bedroom doors closed and to exit the building via alternate routes.
- If the top of the door is not uncomfortably hot, brace the bottom of the door with your foot, and the top with one hand, then open the door about one inch. Be prepared to slam the door shut if there is any pressure against the door or if any hot air rushes in.
- If there is no evidence of excessive heat or pressure, leave the room and close the door behind you. Shout appropriate instructions to all family members and immediately leave the building via the pre-planned routes. If heavy smoke is present, drop to your hands and knees, or crawl to remain below the smoke level.

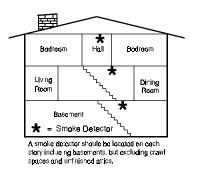
5.6.3 Installation Considerations

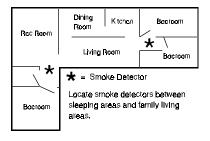
Proper location of detection devices is one of the most critical factors in a fire alarm system (see text below and the figure at the top of the next page).

The following are some general considerations:

- Smoke detectors should **not** be installed in "dead air" spaces or close to ventilating or air conditioning outlets because smoke may be circulated away from the detector. Locations near air inlets should be favored.
- Avoid areas subject to normal smoke concentrations such as kitchens, garages, or near fireplaces.
- Do not install smoke detectors where normal area temperatures are above 100 degrees F (38 degrees C) or below 32 degrees F (0 degrees C).
- Areas of high humidity and dust concentrations should be avoided.
- The edge of ceiling mounted detectors should be no closer than 4 inches (10 cm) from any wall.
- Place the top edge of wall mounted detectors between 4 and 12 inches (10 and 30 cm) from the ceiling.

For exact mounting information, refer to the instructions provided with the smoke detectors.





5.7 Personal Identification Numbers

The Personal Identification Number (PIN) is the 4 digit code users enter at the keypad to gain access to the system. A PIN may be assigned to each User Number 00 - 15. The User Number identifies each person using the system. There are 16 possible User Numbers (00 - 15). The Authority Level assigned to each User Number determines which functions each user will be able to perform.

Your system may have up to 16 different PINs, each 4 digits long. **Each User Number can have only one PIN.** Attempting to assign the same PIN to multiple User Numbers will result in the three-beep error tone, and the change will not be made.

User Number 00 is designated as a Master Code. It can be used to silence alarms, reset, bypass, and program the unit.

User Number 00 is shipped from the factory with the sequence of 9876. This code should be changed to one of your personal preference, and must be assigned maximum authority. PINs should never be programmed with common sequences such as 1111, 1234, or 2468 because they are easily violated.

Authority Levels

Authority Levels are assigned to PINs to determine which functions each user will be able to perform. Level 3 (minimum) will allow alarm silence and view history options only. Level 2 (medium) adds the capability to reset the system, access test modes, initiate fire drills, and disable input or output devices. Level 1 (maximum) adds the capability of programming the control panel. Level 0 (none) prevents all system access.

Level	Allowed Operations
Maximum (1)	all panel operations, including programming
Medium (2)	system test modes, fire drill, reset, disable, silence, view history
Minimum (3)	silence, view history
None (0)	none

5.8 Error Displays

Control panel problems are indicated by one of the following messages on the top line of the display. Contact your installing company if problems persist.

- 1. "FIRE ALARM" One or more points is in alarm.
- 2. "SUP'VISORY ALARM" A supervisory condition exists (e.g. a shut-off valve is closed).
- 3. "SYSTEMTROUBLE" A trouble condition exists (e.g. wiring for a point is cut, AC power fails, etc.).
- 4. "POINTTROUBLE" One of the points is not responding to the control panel. This may also be displayed during power-up (if so, ignore).
- 5. "DISABLED DEVICE" An input or output device has been disabled.

5.9 Testing

Any of seven special test modes can be selected using the Test key found on the built-in and D7033 keypads.

- Walk test: Checks the points to assure that detectors connected to a point will report an alarm to the control. While in this mode, the LCD will show system test status and the trouble sounder will sound every 10 seconds.
- Communicator test: The communicator will send a test report. While communication is in progress, the Power LED will flash. When the communication succeeds, a long keypad beep will be heard, the Power LED will return to normal, and the display will return to normal.
 - NOTE: This test is available only if your system transmits alarms and system information to a monitoring service, and has been programmed by the security installing company to permit communicator tests.

- Dial out for downloading: The control panel will dial out to the remote programmer. This test requires that phone number 3 (computer) and account code 1 be programmed.
- Test battery/NAC circuits: If a power failure occurs, your control panel has a built-in battery that will continue to power the system for several hours. The control panel automatically recharges the battery when power is restored. In this test mode, the system will operate the alarm relay and test the battery for 2 seconds. The test result will be displayed at the end of the test, and will not be reported to the central station. Pressing the Clear key or the Command key will return the display to standby mode, or the unit will time out after 20 seconds.
- Answer phone for downloading: Verifies the panel's ability to answer the phone line for remote programming. The remote computer must give the proper agency and remote passwords for connection to be maintained.
- Manually activate outputs: Allows a selected output to be turned on and turned off manually.
- Read zone input levels: Shows the status of a selected internal point. This status will be updated every five seconds.
 In addition, this test mode can be used to display line voltage, battery voltage, ground fault
 level, NAC current, and phone line level status.

5.10 Remote Program Dial-out and Answer

Call for Remote Programming

Phone numbers 1 and 3 must be programmed, along with account code 1. The panel will call phone number 3 and attempt to connect for downloading. While programming is underway, the Trouble LED will flash. If the panel is already using the phone line, it will sound the three beep error tone.

Answer for Remote Programming

The panel will immediately pick up the phone line to answer a remote programming call. While programming is underway, the Trouble LED will flash. In addition to allowing a connection for remote programming, this will allow on-site PC downloading. If the panel is already using the phone line for a report communication, it will sound the three beep error tone.

6.0 How to Program

The keypad will (under normal conditions) display "SYSTEM NORMAL" on the top line and, "SELECT:" on the bottom line, followed by the following scrolling menu items:

- PROG/0
- CMND/#
- TEST
- HISTORY
- DISABLE
- DRILL

Power	🗆 Trouble
🗆 Alarm	🗆 Silenced

SYSTEM NORMAL SELECT: PROG/O

To select one of the menu items, simply press its corresponding key on the keypad at any time.

When a menu item is selected, the Trouble LED will begin to flash and the display's backlighting will turn on.

When PROG/0, CMND/#, DISABLE, and TEST are selected, the menu item is displayed on the top line and the bottom line scrolls through sub-menu items.



To return to the SYSTEM NORMAL display, press the [Clear/*] key.

To select a sub-menu, press the corresponding number key on the keypad.

The keypad may, at this time, prompt you to enter your PIN number. If so, enter the number and the display will automatically go to the sub-menu display.

□ Power □ Alarm	■ Trouble □ Silenced
RESTRICT	N:
■ P ower □ Alarm	■ Trouble □ Silenced
DATE/TIME 1 - SYSTE	≣ M

To return to a previous screen at any time, press the [Clear/*] key. Doing so deep within a sub-menu will eventually return you to the SYSTEM NORMAL display.

When a sub-menu item prompts you to enter data, do so followed by the [Cmnd/#] key. If data already exits at a particular location, it will be displayed. You can either accept that data or enter new data over it.

Power	Trouble 🛛
🗆 Alarm	🗆 Silenced



When the [Cmnd/#] key is pressed to enter the data, the display will return you to the sub-menu display you were in previously.

For a complete listing of each menu and sub-menu, see pages 19-21. For a listing of the Defaults, see pages 24 and 25.

The HISTORY option is not menu driven; rather it is a list. After you press the HISTORY key, the latest system event will be displayed.

Power	🗆 Trouble
🗆 Alarm	□ Silenced

12/12 DRILL: OVER 08:13 101196

The "12/12" in our example means this is the 12th event out of 12. DRILL: OVER is the event, 08:13 is the time of the event, and 101196 is the date of the event.

The display will automatically scroll back through the events until it reaches the end, then will display the following:

■ Power □ Trouble □ Alarm □ Silenced

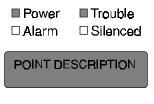


At any time during your viewing of the history, you can press the 7 or 9 keys to move forward or backward through the list of system events.

6.1 ALPHA Programming

When programming the Point Descriptions (4- PROG INPUTS / 1- POINT NUMBER / 4- DESCRIPTION), the numeric keys are used to enter alpha-numeric information similar to the way telephone buttons are used to process information over the phone lines: each key representing 4 or more letters or symbols.

When you enter the Description programing section, the display will show the following:



Characters are displayed on the second line as they are entered. As each numeric key is pressed, it will enter a different character each time it is pressed. For example: repeatedly pressing the [2] key will enter **A**, **B**, **C**, **2**, **A**, **B**, etc.

The numeric keys and their values are shown in the following table.

Numeric Key		Val	ues		
1	Space	1,'	& / #	¥!-	
2	А	В	С	2	
3	D	Е	F	3	
4	G	Н	Ι	4	
5	J	К	L	5	
6	М	Ν	0	6	
7	Р	R	s	7	
8	Т	U	V	8	
9	W	Х	Y	9	
0	Q	Z	0		
#/CMD	enters the description and returns to programming menu				
*/CLEAR	returns to programming menu without entering changes				
SILENCE	moves cursor one space right				
DISABLE	moves cursor one space left				

6.2 Format Programming

6.2.1 <u>4/2</u>

When 4/2 format is used, reports generated by points consist of an event type (first digit) and a point number (second digit). Digits may be programmed for the following events: fire alarm, fire restoral, waterflow alarm, supervisory alarm, point trouble, trouble restore, point disable, disable restoral, and monitor alarm. The same event type (first digit) will be sent for any point. The point number is the second digit. Each point may be programmed to a different digit. This programming is done under 7- PROG FORMATS, 1-4/2 POINT RPT.

Additionally, 18 system events may each be programmed with a unique two digit code. Events that may be programmed this way include, for example: system silence, fire drill, phone 1 trouble, and phone 2 restoral. This programming is done under 7- PROG FORMATS, 2- 4/2 RPT CODS.

6.2.2 <u>BFSK</u>

Similar to the programming of system events for 4/2 formats, five system events may be programmed for two unique digits each when the BFSK format is used. This programming is done under 7- PROG FORMATS, 3- BFSK RPT CODS.

6.2.3 <u>SIA</u>

The report that is sent by the SIA format when the panel is silenced may be programmed. By default, the panel will send "KB" when it is silenced. Any letters may be programmed to be sent for this condition. To program this, the number keys take the same letter assignments as they have for programming point descriptions.

7.0 Programming Menu Tree (PROG/0)

For defaults, see page 24

			SEL	ECT:		
PROG/0	CMND/#	TE	ST	HISTORY	DISABLE	DRILL
-						
1- PROG TIME 1- SYSTEM MMDDYY HHMM 2- AUTO TEST 1- TEST TIME: Time of a the automatic test reports automatic test reports sent. e.a. 7 days. The report will be sent whe test time occurs. then a 7 days thereafter.	2- SECUR 1- PINS 1- PROGRAMR: bv installer to c operate the pa default code is may be change time. 2- USERS: Up to additional user be programme to protect the s unauthorized c	Code used configure and nel. Factory "9876" and ed at any o 15 codes can d for the unit system form operation and to be kept of vidual	3- P 1- CITY BOD svstem to appliance circuit to o for a mun svstem. YES (1) 2- TIMERS 1- SMOK smoke off after redister second back oo (01 - 11 2- AC FA the cor failure Fail reac causes report of 1- WAP 2- SMOK 3- AUTO for an a activate The sa NACS. (00 - 5 4- (reserved 5- DISPL menus screen (01 - 11 3- (reserved 4- OPTION II 1- UPDA option connect 2- SETUF svstem should (0 - 4 H 5- PIN REQU required to performed YES (7 2- REMO YES (7 1- MAP 1- LOCAL YES (7 2- REPORT and phon	ROG SYSTEM (: Reconfigures the use notification circuit 2 as a signaling drive a city box interface icidal fire alarm reporting NO (0) ERESET: Time the detector power is turned r reset. No alarms are red by the system for 5 is after power is turned n. 6 seconds) IL DLY: The # of hours throl will wait after an AC before sending and AC bot. A setting of "1" at the system to send a when the battery reaches i capacity. FOR TIME ER TIME - 24 Hours) SILENCE: Sets the time autosilence NAC to a until it silences itself. me setting applies to all 29 Minutes) red) AY RATE: The speed are shown on the LCD . in units of 1/4 second. 65 x.25) D SUS TE BUS: Queries both buses and updates list of ted devices. P KEYPAD: Tells the how many keypads be supervised. (evpads) JIRED?: A PIN can be refore operations can be d. (NO (0) TMONI.: Communicator e monitoring hardware sabled or enabled. NO (0)	 4- PROG 1- POINT NUMBER (1 - 4/8) Note: Point 4 has other point ALARM/TROUBLE 1-ALARM: When a point 6 the system alarms. 2- TROUBLE: When point etc., the system respond 1- LATCHING: If a zone i will reset alarm status a smoke power) when the standby condition. Other manually reset. YES (1) NO (0) 2- VERIFICATION: Reset the alarm recurs before signal. YES (1) NO (0) 2- VERIFICATION: Reset the alarm recurs before signal. YES (1) NO (0) 3- ZONE ASSIGN: Each i only one zone: howevel assigned to the same zo (00 - 63) 4- DESCRIPTION: Each i be labeled with a 16 chainout. 5- (reserved) 6- LOOP RESPONSE: Col with standard response system-wide programm 1- FAST: (500 ms) 2- PROGRAMMED 7- SILENCABLE: Determ the system or not. Whe controlled by more than silenceable point is acti silenceable. YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. with YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. with YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. with YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. With YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. With YES (1) NO (0) 8- LOCAL ONLY: The intra annunciation only. With YES (1) NO (0) 9- CONFIGURE 1- FIRE: When activates selected output alarm report have "silenceable. "latch characteristics. 3- SUPERVISORY: When a "WATERFLOW ALARM sends a subervisor valat supervisor valat suprovisor valat supervisor valat suprovisor valat supervisor v	INPUTS s different defaults than the s. See page 24. tooes into an open circuit state. wiring is cut, AC power fails, ds with a trouble condition. s non-latching, the system intomatically (but not reset a input restores to the r-wise, the system must be the detector once to see if annunciating or sending a input can be assigned to r. multiple inputs can be one. input (initiating circuit) can aracter description to identify onfigure points to activate time (setting 1) or one ed response time (setting 2). times if a user can silence n an output device is n one point, if any non- ve, the output becomes non- ve, the output becomes non- but point displays "ALARM" on panel selected output devices, and t (if programmed). Fire points hing," and "output zone 0" activated, point displays " on panel and keypads, t devices, and sends a waterflow med). Waterflow points nor- we, the output points on activated, point displays " on panel and keypads, t devices, and sends a waterflow med). Waterflow points have ing." and "output points" activated, point displays " on panel and keypads, t devices, activates selected ds a fire alarm report (if pes IA format for communication UA" alarm will be sent instead of ints have "silenceable" and with no output zones. d, point initiates a panel reset s and reset smoke detectors. ed, point initiates a panel reset s and reset smoke detectors.

7.0 Programming Menu Tree (PROG/0 continued)

For defaults, see page 25

		SEL	ECT:					
PROG/0				TORY DISABLE			DRILL	
5- PROG OUTPUTS	6	PROG ACCOUNTS		7- PRO	G FORMATS	8-	HISTORY DEFAULTS	
1- NACS 1- NAC #1 1- AUTOSILENCE?: The NAC will silence itself after a specified time period. The system will remain in alarm. however, and must be manually reset. YES (1) NO (0) 2- CONFIGURATION:	report different a numbers. Accou code 2 is used w 1- NUMBER 1: N 2- NUMBER 2: N 2- PHONE NUMS: reporting phone	w Number w Number The system can be program #s. Phone #1 is used wline e Downloading occurs on pho These special duits can be pressing [Test! followed by]	wo reportina ; account med with 2 #1: phone #2 ne #3. e entered by number key.	hex diaits (0 th the specific ke	equires the used of hrouah F). Because evs A throuah F are on the kevpad, the have been	Th lat ok If the 2- DI Th EE	LEAR HSTRY ne history buffer holds the test 99 events. It itomatically deletes the dest items when it fills to 99 you want to manually clear e history buffer, use this enu item. EFAULT EE DROM memory to the ctory default values.	
 STEADY: Output programmed to tum on steady for a fire alarm. PULSING: Output programmed to pulse for a fire alarm in the normal manner. TEMPORAL: Output programmed to pulse 	IGURATION: 2- PHONE #2 Press See Action Isliencel = E Phone Number 2 3- COMPTR PHONE: Itestil11 · Touch Tone ^{1 · · · · · · didt Isliencel = E Steady for a fire arm. 3- COMPTR PHONE: Itestil21 / 3 second delay Itestil21 / 3 second delay Itestil21 / - Touch Tone^{1 · · · · · · · · · · · · · · · · · · ·}}		3- AI Th 4/2 alt of Th fol	LT 4/2 CDES his menu item defaults the 2 reporting codes to an ternate industrv-standard se reports. he altemate default is as llows (see page 25 for the andard defaults):				
for a fire alarm in Temporal 3. 4- CALIFORNIA: Output programmed to pulse for a fire alarm in the California Time cadence. 3- ZONE ASSIGNS Each output can be assigned to up to 4 zones. ZONE A, B, C, or D	6 - SIA. 300 2 - MONITOR LIII for each phone YES (1) NO (3 - TONE FREQ: Determines di acknowledge 1 - 19D. 14A. 2 - 18D. 23A. 2 4 - 18D. 23A. 2	Image: Star Star Star Star Star Star Star Star	a tone a tone nowledge tone nowledge tone r second r second	 7- DSBL 8- MONI1 9- MORE 9- MORE 1- POINT 2- POINT 4- POINT 4- POINT 5- POINT 6- POINT 6- POINT 8- POINT 9- MORE 	TOR D1 1 D2 2 D2 3 D2 4 D2 5 D2 6 D2 7 D2 7 D2 8 D2 7 D2	0- 1- 2- 3- 4- 5- 6- 7- 8- 9- 1-	POINT RPT FIRE ALRM: 0 FIRE RSTR: 2 WATERFLOW: 0 SUPERVISE: 0 TROUBLE: 6 TRBL RSTR: 7 DISABLE: 5 DSBL RSTR: 2 MONITOR: 0 MORE POINT 1: 1	
(00=disabled) (1-63) 2- NAC #2 1- AUTOSILENCE 2- CONFIGURATION 1- STEADY 2- PULSING 3- TEMPORAL 4- CALIFORNIA 3- ZONE ASSIGNS Each output can be assigned to up to 4 zones. ZONE A, B, C, or D (00=disabled) (1-63)	bhone #'s 1.2. 1 - PULSE ON 2 - TONE ONL 3 - TONE PUL 2 - PHONE #2 SAME 1-5 OPTH 4 - RPT STEERING directed to differe 1 - NONSUP ALRM 1 - PHONE 1 ON 2 - PHONE 2 ON 3 - PHONE 2 AN 4 - PHONE 2 BA #2 if #1 fails. 5 - NO REPORT: 2 - SUPVSRY ALRI 3 - NONSUP RSTR 4 - SUPVSRY RSTI	IOPS E: Determines what format the p and 3. LY Y SE DNS AS PHONE #1 : Different classes of reports ent phone numbers. LY: Report sent to phone #1 only. LY: Report sent to phone #2 only. D 2: Report sent to phone #2 only. D 2: Report sent to phone #1. CKUP: Report sent to phone #1.	anel will dial can be 2.	2- SILEN 3- FIRE [4- FIRE [5- OPEN 6- LOW E 7- LOW E 8- AC FA 9- MORE 0- AC FA 1- TEST 2- OFF N 3- PHON 4- PN 1 T 5- PNON 6- PN 2 T	M IN TST IEST RST IEST RST CE DRILL DRL RST RST RPT BATTERY BATT RST ILURE IL REPORT IORM TST IE 1 TRBL TRB RST IE 2 TRBL	2- 3- 4- 5- 6- 7- 8- 9- 4/2 F 0- 1- 2- 3- 4- 5- 6- 7- 8- 7- 8-	POINT 2: 2 POINT 3: 3 POINT 4: 4 POINT 5: 5 POINT 6: 6 POINT 7: 7 POINT 8: 8 MORE RPT CODS SYSTM IN TST: 33 SYS TEST RST: 37 SILENCE: 9F FIRE DRILL: 33 FIRE DRILL: 33 FIRE DRL RST: 37 OPEN RST RPT: 9F LOW BATT RST: 79 AC FAILURE: 60	
2- RELAYS 1- LOCAL 1- RELAY #1 ZONE A. B. C. or D (00 - 63) 2- RELAY #2 ZONE A, B, C, or D (00 - 63) 2- REMOTE 1 (D7035) 1 - 8- RELAY #1 - #8 ZONE A, B, C, or D (00 - 63)	 5- RING COUNT: panel will seize 6- COMM. TRIES: to communicate 	ptions 2 - 9 have the same choice The number of phone rings b he line to attempt downloadir The system will always atten an event. The parameter det e system will indicate a comr	efore the na. npt 10 times ermines after	8- SYS T 1- OFF NRI 2- OPEN/R 3- SILENCE 4- FIRE DR 5- FIR DRIL 4- SIA SIL RF 1- LEFT BY	RB RST CDS M TST ESET E RILL RSTR PT TE	0- 1- 2- 3- 4- 5- 6- 7-	MORE AC FAIL RST: 70 TEST REPORT: 30 OFF NORM TST: 33 PHONE 1 TRBL: 31 PN 1 TRB RST: 35 PNONE 2 TRBL: 32 PN 2 TRB RST: 36 SYSTEM TROUB: 33 8- SYS TRB RST: 37 e-assigned Zones	
3- REMOTE 2 SAME 1-8 OPTIONS AS REMOTE 1 For pre-assigned zones, see chart in lower right corner of this page.	(01 - 10) 7- MACH. BYPAS if an answering i control. If the co one minute of w	5: The downloading compute nachine answers the phone to htrol detects the phone line rin nen the last ringing cycle stop e first ring and seize the phone	pefore the naina within ped, then it	2- RIGHT B	Zone 63 Zone 61 Zone 60 Zone 59 Zone 58 Zone 58 Zone 55 Zone 55 Zone 55	No AC Alarm Ve General Commun Pre-siona Releasin	Trouble Waterflow	

D7024 Reference Guide

8.0 Menu Tree (CMND#, TEST, HISTORY, DISABLE, DRILL)

SELECT:								
PROG/0	CMND/#	TEST	HISTORY	DISABLE	DRILL			
	0- PROG MODES SAME AS <prog 0=""></prog>	1- WALK TEST 1- SHORT ACTIVE <*/CLEAR> TO END 2- LONG ACTIVE <*/CLEAR> TO END 3- NO ACTIVATE <*/CLEAR> TO END	7- BACK	1- DISABLE 1- INPUTS 1- ALL 2- INDIVIDUAL (1 - 4/8) 2- OUTPUTS 1- NACs 1- LOCAL 1- NAC #1 DEVICE DISABLED 2- NAC #2 DEVICE DISABLED 2- LOCAL EXPAND 1- NAC #1 DEVICE DISABLED 2- NAC #2 DEVICE DISABLED 2- NAC #2 DEVICE DISABLED 2- RELAYS 1- LOCAL 1- RELAY #1 DEVICE DISABLED 2- RELAY #2 DEVICE DISABLED 2- RELAY #2 DEVICE DISABLED 2- REMOTE 1 OPTIONS 1 - 8 ARE FOR RELAYS 1 - 8. DEVICE DISABLED 3- REMOTE 2 SAME 1 - 8 OPTIONS AS REMOTE 1. 3- DIALER	<*/CLEAR TO END			
	8- TEST MODES SAME AS <test></test>	2- TEST COMM. 3- DIAL OUT 4- TEST BAT/NAC TEST PASSED/FAILED 5- ANSWER PHONE 6- TEST OUTPUTS 1- NACS 1- LOCAL 1- NAC #1 1- ON, 0- OFF 2- LOCAL EXPAND 1- NAC #1 1- ON, 0- OFF 2- LOCAL EXPAND 1- NAC #1 1- ON, 0- OFF 2- RELAY #1 1- ON, 0- OFF 2- REMOTE 1 OPTIONS 1-8 ARE FOR RELAYS 1-8. 1- ON, 0- OFF 3- REMOTE 2 SAME 1-8 OPTIONS AS REMOTE 1. 7- TEST INPUTS POINT NUMBER (1 - 4/8) 1- PREV INPUT	9- FORWARD	2- ENABLE SAME 1 - 3 OPTIONS AS DISABLE.				

9.0 Installation Guide for U.L. Listed Systems

9.1 D7024 U.L. Listings

The D7024 is U.L. Listed for the following:

• Commercial Fire Alarm (Type Service: Local, Central Station, and Remote Station; Type Initiating: Automatic, Manual, Sprinkler Supervisory, and Waterflow), U.L. Standard UL864.

The control panel should be installed in accordance with NFPA 72 for Commercial Fire installations.

9.2 Installation Considerations

- Failure to install and program the control in accordance with the requirements in this section voids the listing mark of Underwriters Laboratories, Inc.
- The standby battery capacity is 35 AH @ 24 VDC.
- The total nominal current must not exceed 970 mA in standby nor 4 A when in alarm.
- The control must be mounted indoors and within the protected area.
- Grounding must be in accordance with article 250 of the NEC (NFPA 70).
- Zones must be connected to U.L. Listed, compatible devices.
- The ground wire provided with the enclosure must be connected between the door and the enclosure using the supplied nuts.
- The ground start feature shall not be programmed.
- Phone monitoring must be selected if the DACT (Digital Alarm Communicator Transmitter) feature is used.

9.3 Programming the D7024

When used in U.L. Listed installations, the control must conform to certain programming requirements. The following is a list of the required program entries and required accessories for specific U.L. Listed installations.

<u>Commercial Fire Alarm (Central Station (DACT) and</u> <u>Local)</u>

Required Accessories:

- At least one Radionics, Inc. Model D285 smoke detector with a D287, D288, D292, or D293 Series base; or another Listed compatible smoke detector.
- At least one Radionics D601S horn/strobe or D443 bell (will provide 85 db for UL985 and NFPA 72 requirements; other Listed compatible devices with a voltage range of 20 to 31 V may be used) is required for this application and must be installed inside the protected area.

- Four-wire detectors must be used with Listed power supervision devices. A compatible Listed 4-wire detector is the Radionics, Inc. D285 in a D292 or D293 Series base. A compatible Listed EOL relay is the Radionics, Inc. D275.
- All points must be used with the EOL resistor provided.
- A. Report Programming:
- Non-supervisory and supervisory reports must be programmed for those points used.
- Trouble reports must be programmed.
- AC failure report delay must be set for 75% of estimated standby time, or set to report at 25% of battery capacity.
- Automatic test report frequency must be set at least every 24 hours.
- B. Timer Programming:
- Autosilence time must be programmed for not less than 5 minutes.
- C. Point Programming:
- For fire points: open = trouble, latching.

D. Alarm Output Programming:

- Notification Appliance Circuits must be programmed to activate from the appropriate input points.
- E. Communications Programming (if Used for Central Station Service):
 - Central Station report/monitor must be enabled.
 - Monitoring of both phone lines must be enabled.

9.4 Reversing Modules

A. D132:

The D132 Smoke Detector Reversing Relay Module allows the D7024 Control/Communicator to sound all smoke detectors connected to Point 1 when a single detector on the loop goes into alarm. To restore the detectors to normal, reset the sensors.

B. D185:

The D185 Reverse Polarity Module is a UL Listed module that connects the control panel with either a single set or a pair of leased Telephone Company (Telco) lines in NFPA 72 remote station applications. It relays system alarm status information from the panel to a monitoring station. The D185 operates with either 12 or 24VDC supply.

Appendix A: Abbreviations on Panel Display

3/1 = 3/1 Tone Burst (reporting format) 4/2 = 4/2 Tone Burst (reporting format) 7035 = D7035 Remote Relay Board @ = Option Bus Address (1 - 16) **ACTVTN** = Activation A, ALRM = Alarm ALT = Alternate ANN, ANUN = Annuciator BAT, BATT, BATTRY = Battery **BX** = Box (e.g. City Box) **CATE** = Catastrophe CDES, CODS, CDS = Codes **CMPTR** = Computer **COMM** = Communicator **CONFIG** = Configure **DESCRPTION** = Description **DIG** = Digit **DLY** = Delay DRL, DRIL = Drill D, DSBL, DISABL = Disable **DSPLY** = Display **EE** = EEPROM **ENAC** = Expander NAC **EXP** = Expander FAIL = Failure FIR, FR = Fire FLT = Fault FRQNCY, FREQ, FREQNCY = Frequency **FUNC** = Function **GRND** = Ground HI = HighHSTRY = History **INIT** = Initialize KPAD, KYPAD, KYPD = Keypad LNAC = Local NAC LOC = Local **MACH** = Answering Machine **MONI, MON** = Monitor NAC = Notification Appliance Circuit NMBR, NUM = Number

NONSUP = Non-Supervisory NORM, NRM = Normal **OUT** = Output **OVRC** = Overcurrent **PAS** = Positive Alarm Sequence PHN, PHON = Phone PROG, PRGMNG = Programming **PRGRMMD** = Programmed PT, PNT = Point **PWR** = Power **REM, REMOT** = Remote **RESPNS** = Response RLY = Relay RPRT, RPT = Report **RST** = Restore **SIL** = Silence SMK = Smoke SUPERVSORY, SUPRVSRY, SUPV, SPV, SUPVSY = Supervisory SHRT = Short SYS, SYSTM = System T, TRBL, TRB, TROUB = Trouble TST = Test VER = Version WFLW, WTF = Waterflow ZN, ZON = Zone

Appendix B: Defaults for PROG/0

			SELECT:			
PROG/0	CMND/#	CMND/# TEST		HISTORY		DRILL
1- PROG TIME 2- SEC		ECURITY	3- PROG SYSTEM		4- PF	ROG INPUTS
1- SYSTEM Last date in EE 0000 2- AUTO TEST 1- TEST TIME: 0200 2- TEST FREQ: 24 hours	, i i i i i i i i i i i i i i i i i i i	MR: 9876 User 1 = 1234 User 2-15 = 0000 : User 1 = 3 (max) User 2-15 = 0 (none)	2- AC FAIL 3- AUTO S 4- (reserve 5- DISPLA' second. 3- (reserved) 4- OPTION BU 1- UPDATE option bu connecte	RESET: 5 seconds DLY: 6 hours ILENCE: 4 minutes d) Y RATE: 4 x .25 = 1 JS EBUS: Queries both uses and updates list d devices. XEYPAD: 0 RED NO E: YES	1- LA TCHING: 1 2- VERIFICATIO 3- ZONE ASSIG 4- DESCRIPTIO 5- (reserved) 6- LOOP RESPO 1- FAST: Fas 2- PROGRAM t of 7- SILENCABLE 8- LOCAL ONLY	JBLE: Trouble on Open YES (Point 4 = NO) N: NO N: Zone 1 = 1 Zone 2 = 2. etc. N: DNSE: tis the default (Point 4 = 10) IMED: When selected: 10 :: NO

Appendix B: Defaults for PROG/0 (continued)

		SELE	CT:			
PROG/0	CMND/#	TEST	HISTORY	DISABLE		DRILL
5- PROG OUTPUTS	6- PROG ACCOUNTS		7- PR	OG FORMATS	8-	HISTORY DEFAULTS
5- PROG OUTPUTS 1- NACS 1- NAC #1 1- AUTOSILENCE?: YES 2- CONFIGURATION: Pulsina 3- ZONE ASSIGNS Zone A = 63 Zone B = 0 Zone C = 0 Zone D = 0 2- NAC #2 1- AUTOSILENCE? NO 2- CONFIGURATION: Steadv 3- ZONE ASSIGNS Zone A = 62 Zone B = 0 Zone C = 0 Zone D = 0 2- REMOTE 1 (D7035) Relav1/Zone A = 63 Relav2/Zone A = 53 3- REMOTE 2 Relav7/Zone A = 1 Relav2/Zone A = 3 Relav4/Zone A = 4 Relav5/Zone A = 5 Relav6/Zone A = 5 Relav6/Zone A = 7 Relav7/Zone A = 7 Relav8/Zone A = 8	1- ACCOUNT NUM 1- NUMBER 1: 2- NUMBER 2: 2- PHONE NUMS 1- PHONE NUMS 1- PHONE #1: F 3- COMPTR PHO 3- PHON CONTRO 1- PHONE #1: 1- FORMAT: 2- MONITOR I 3- PULSE RA 4- TONE FREG 5- DIALING TO 1- PHONE #1: 1- FORMAT: 2- MONITOR I 3- TONE FREG 4- DIALING TO 4- RPT STEERING 1- NONSUP ALF 2- SUPVSRY AL 3- NONSUP RS	AS A8A8 A8A8 A8A8 FFFF ONE: FFFF OL 4/2 LINE: YES TE: 10PPS Q: 1900/1400 YPE: Pulse Only 4/2 LINE: YES Q: 1900/1400 YPE: Pulse Only 4/2 LINE: YES Q: 1900/1400 YPE: Pulse Only GR: PHN 2 BCKUP LRM: PHN 2 BCKUP LRM: PHN 2 BCKUP 2 BCKUP IN 2 BCKUP IN 2 BCKUP HN 2 BCKUP PHN 2 BCKUP 10	1- 4/2 POIN 0- FIRE A 1- FIRE F 2- WATE 3- SUPEF 4- TROUI 5- TRBL 6- DISAB 7- DSBL 8- MONIT 9- MORE 1- POINT 2- POINT 3- POINT 4- POINT 5- POINT 6- POINT 7- POINT 8- POINT 9- MORE 2- 4/2 RPT 0 0- SYSTM 1- SYST 2- SILEN 3- FIRE D 5- OPEN 6- LOW E 7- LOW E 8- AC FA 9- MORE 0- AC FA 1- TEST 1 2- OFF N 3- PHONI 4- PN 1 T 5- PNONI 6- PN 2 T	T RPT ALRM D1: 0 RSTR D1: 3 RFLOW D1: 0 RVISE D1: 0 BLE D1: 6 RSTR D1: 3 GR D1: 3 GR D1: 3 FOR D1: 0 T D2: 1 2 D2: 2 3 D2: 3 4 D2: 4 5 D2: 5 6 D2: 6 7 D2: 7 8 D2: 8 CODS MIN TST: F1 EST RST: E1 CE: 9F ORLL: F2 ORL RST: E2 RST RPT: 9F BATT RST: E9 FORL RST: E2 RST RPT: 9F BATT RST: E9 HURE: FA HLRST: EA REPORT: EE ORM TST: FD E 1 TRBL: FB RB RST: EB E 2 TRBL: FC RB RST: FD RB RST RST RB	1- CI 2- DI	HISTORY DEFAULTS LEAR HSTRY EFAULT EE LT 4/2 CDES

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