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D8024/D10024A

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1.0   Introduction

- The material and instructions covered in this manual have been carefully checked for accuracy and are presumed to be correct. However, the manufacturer assumes no responsibility for inaccuracies and reserves the right to modify and revise this document without notice.

- These instructions cover the use and operation of the Fire Alarm Control Panel. Refer to the *D8024/D10024A Operation and Installation Manual* (P/N 50616) for details of how to install the system and for information on programming and Level 3 functions.

1.1   Other Literature Referenced

Throughout this manual, references will be made to other documentation. See the following table (which lists the complete part number for ordering purposes) for a list of other literature offering more information on the D8024/D10024A Fire Alarm Control Panels.

Name of document	Part Number
D8024/D10024A Operation and Installation Manual	50616

Table 1: Other Literature Referenced

1.2   Documentation Conventions

These conventions are intended to call out important features, items, notes, cautions, and warnings that the reader should be aware of in reading this document.

1.2.1   Type Styles Used in this Manual

To help identify important items in the text, the following type styles are used:

Bold text	usually indicates selections that you may use while programming your panel. It may also indicate an important fact that should be noted.
Bold Italicized	used to denote notes, cautions and/or warnings
Italicized text	Is used to reference the user to another part of this manual or another manual entirely. It is also used to symbolize names for records that the user will create.
`Courier Text`	Text that appears like this indicates what may appear on the Control Panel display, command center/keypad or internal printer.
[CAPITALIZED TEXT]	Text like this is used to indicate to the user that a specific key should be pressed.
	Example: …press the [ESC] key…

1.2.2   Tips, Important Notes, Cautions and Warnings

Throughout this document, helpful tips, important notes, cautions and warnings will be presented for the reader to keep in mind. These appear different from the rest of the text as follows;

Important Notes - should be heeded for successful operation and programming. Also tips and shortcuts may be included here.

Caution - These caution the operator that physical damage to the program and/or equipment may occur.

Warning - These warn of the possibility of physical damage to the operator, program and/or equipment.

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Introduction

1.3 UL/National Approvals

- UL Listed for "Local" or "Remote Station" use.
  This equipment must be installed in accordance with these instructions, NFPA72 and the appropriate national, regional and local regulations specific to the country and location of the installation. Consult with the appropriate Authority Having Jurisdiction (AHJ) for confirmation of the requirements.

1.4 EMC Compatibility

- 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 when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential area is likely to cause harmful interference in which case, the user will be required to correct the interference at his own expense.

- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

  - Reorient 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.

2.0   User Control Levels

2.1   Level Definition

- The D8024 and D10024A Fire Alarm Control Panels have three user control levels.
- At all three levels, the LED Displays indicate the condition of the installation, the Zone LED Displays indicate the location of any fire alarm or trouble and the alphanumeric display gives more detailed fire alarm or trouble information.
- At USER LEVEL 1, all the displays are functional but the front panel control keys are inhibited.
- At USER LEVEL 2, all front panel controls are functional and some system operation parameters and functions can be changed. User Level 2 is reached by entering a password from level 1.
- At USER LEVEL 3, all front panel controls are functional and full system configuration and programming are possible. User Level 3 is reached by entering a password from either Level 1 or Level 2. User Level 3 is intended for use by the system installer / maintenance contractor.

2.2   User Passwords

- Up to ten USER LEVEL 2 passwords can be programmed into the panel.
- The USER LEVEL 2 passwords can be assigned / changed at Level 3 by the installer / maintenance contractor. Level 2 passwords do not allow access to Level 3 functions.

Notes:

3.0   Controls and Displays

1. LCD Display
    (See Section 3.1.5
    Alphanumeric/Interactive
    Control Keys on page 12)

2. System Control LED
    Indicators (*See Section
    3.1.3 System Control LED
    Indications on page 10*)

3. Control Keys – A bank of
    four keys contains the four
    system control keys: Sound
    Alarms, Silence/Resound,
    Mute/Accept and System
    Reset. (*See Section 3.1.1
    Control Keys on page 9*)

4. Zone LED Display (*See
    Section 3.1.4 Zone LED
    Displays on page 11*)

5. Alphanumeric/Interactive
    Control Keys - A bank of 17
    keys contains interactive
    and alphanumeric keys.
    (*See Section*

6. 3.1.2
    *Alphanumeric/Interactive
    Control Keys on page 10*)

    On the D8024, opening the
    hinged panel gives access
    these keys. This is located
    below the Zone LED
    Display.
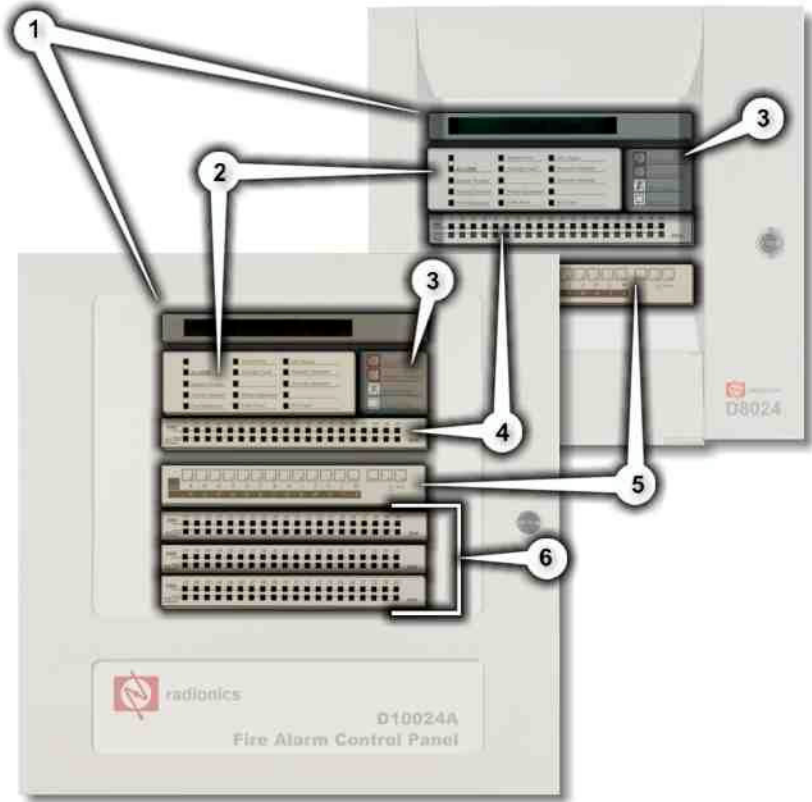
Figure 1: D8024/D10024A Controls and Displays

The alphanumeric keys normally function as a numeric keypad. During programming, these keys can be toggled to Letter Keys by pressing the [Change] key. This gives access to letters A-M. For access to letters N-Z, press and hold the [Shift] key while pressing the appropriate letter key.

7. Optional Zone LED Display (*See Section 3.1.4 Zone LED Displays on page 11*)

3.1   Controls

The control panel has two groups of control keys.

3.1.1   Control Keys

Key Legend	Purpose	Function
Sound Alarms	Fire Drill	Press to Turn on ALL NAC Outputs (i.e. evacuate building manually).
Silence / Resound	Alarm Silence	Press to Turn off all activated NACs. Press again to re-activate the NACs.
Mute / Accept	Trouble Silence	Press to acknowledge events and silence the internal buzzer.
System Reset	System Reset	Press to cancel all alarm conditions and reset the panel.

Table 2: Control Key Functions
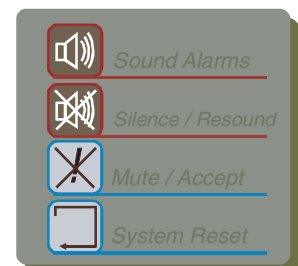
Figure 2: Control Keys

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Controls and Displays

3.1.2 Alphanumeric/Interactive Control Keys

A bank of 17 keys contains interactive and alphanumeric keys. On the D8024, these keys can be accessed by opening the hinged panel located below the Zone LED Display.

The alphanumeric keys normally function as a numeric keypad.

During programming, these keys can be toggled to Letter Keys by pressing the [Change] key. This gives access to letters A-M.

For access to letters N-Z, press and hold the [Shift] key while pressing the appropriate letter key.
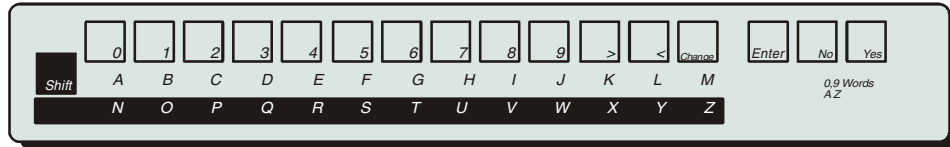
Figure 3: Alphanumeric and Interactive Control Keys

Key Legend	Function
0 to 9	Press to enter numbers 0-9 or letters A-Z
>	Press to scroll through fire alarms or troubles manually on the display
<	Press to scroll back through fire alarms or troubles manually on the display
Change	Press to change a display option (where allowed)
Enter	Press to confirm entry of a multiple digit number
No	Press to answer No, or terminate a display option
Yes	Press to answer Yes, or step through a display option
Shift	Press to show user options on the display
	Press, during programming, to allow entry of Letters N-Z

Table 3: Alphanumeric and Interactive Control Keys

The control keys are disabled at USER LEVEL 1. Pressing the [Shift] key will cause the display to prompt for entry of the Level 2 password.

3.1.3 System Control LED Indications

- The Level 1 LED Indicators are divided into two sections.
- The upper array of LED Indicators shows the operational conditional of the panel and the installation.
- The lower array of Zone LED Indicators shows the location of a fire alarm or trouble.

Figure 4: System Control LED Display

- The standard Zone LED Indicators provide identification for up to 20 zones. On the D10024A panel, this can be extended by adding either a further 20 zones (to give a total of 40 zones) or a further 60 zones (to give a total of 80 zones).

- The LED Indicators illuminate as red, yellow or green to give a clear indication of the panel status as follows:

Indicator	Color	Function	How to Clear
Blank			
ALARM	Red	The panel has detected a fire alarm condition, or the 'Fire Drill' key has been pressed.	Correct the condition causing the alarm and then perform a panel reset.
System Trouble	Yellow	A trouble has been detected by the panel.	Correct the condition causing the trouble and then perform a panel reset.
Trouble Silenced	Yellow	A trouble has been acknowledged and the internal buzzer silenced.	Correct the condition causing alarm or trouble and then perform a manual reset. NOTE: If another alarm or trouble occurs, the internal buzzer automatically resounds.
Point Bypassed	Yellow	Part of the system, either input or output, has been disabled manually by the user.	Re-enable the device or devices. The system automatically resets.
Supervisory	Yellow	This indicates a closed sprinkler supervisory valve, pressure switch or sprinkler system trouble condition.	Correct the supervisory condition and then perform a panel reset.
Sounder Fault	Yellow	This indicates a wiring fault with one of the NAC output circuits.	Correct the trouble condition and then perform a panel reset.
Blank			
Relays Bypassed	Yellow	The relay outputs have been disabled.	See Point Bypassed.
Earth Fault	Yellow	An earth connection fault has occurred on a cable.	Correct the trouble condition and then perform a panel reset.
CPU Reset	Yellow	The CPU has reset or a system fault has occurred.	Correct the problem, if appropriate, and then perform a panel reset.
Sounders Disabled	Yellow	The NAC outputs have been disabled.	See Point Bypassed.
Sounders Silenced	Yellow	The NAC outputs have been silenced.	Correct the alarm condition and then perform a panel reset. NOTE: Press ALARM SILENCE again to reactivate the NACs. If a new alarm occurs, the alarms will resound.
Blank			
AC Power	Green	STEADY: Indicates AC Power is present. FLASHING: Indicates a loss of AC Power or power supply fault.	N/A

Table 4: LED Functions

3.1.4 Zone LED Displays

The Level 1 LED Indicators are divided into two sections.

The upper array of LED Indicators shows the operational conditional of the panel and the installation. The lower array of Zone LED indicators shows the location of a fire alarm or trouble.

The standard Zone LED Indicators provide identification for up to 20 zones. On the D10024A panel, this can be extended by adding either a further 20 zones (to give a total of 40 zones) or a further 60 zones (to give a total of 80 zones).

The LED Indicators illuminate as red, yellow or green to give a clear indication of the panel status as follows:
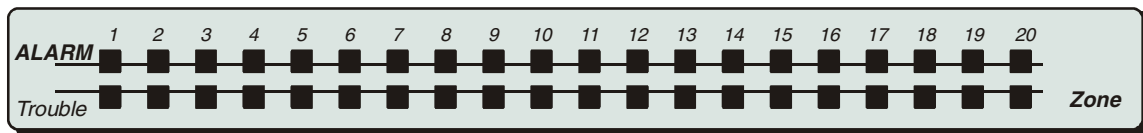
Figure 5: Zone LED Display

Controls and Displays

Indicator	Color	Function	How to Clear
ALARM	Red	FLASHING: The zone is in a fire alarm condition.	Correct the alarm condition and then perform a panel reset.
Trouble	Yellow	FLASHING: The zone contains faulty devices. STEADY: The zone is either disabled or in test mode.	Correct the trouble condition and then perform a panel reset. Re-enable devices or cancel test mode.

Table 5: Zone LED Functions

3.1.5 LCD Display Indications

- The alphanumeric liquid crystal display gives 80 characters of information on a 2-line display. The display is illuminated to assist viewing under dim ambient light conditions.

- When the numeric keypad is not in use, the display will revert to automatically scrolling through any fire alarm or trouble conditions present on the panel. If there are no alarm or trouble conditions, the display will show the date and time.

- Pressing the SHIFT key will show a list of optional functions or prompt for the level 2 password.


```
12345678901234567890123456789012345678 90
12345678901234567890123456789012345678 90
```

Figure 6: LCD Display – 80 characters on 2 lines


```
02-FEB-2002 13:00
```

Figure 7: Normal Display – Date and Time


```
[Panel ACTIVE Control Keys INHIBITED] [1]
Do you want to enable the control keys?
```

Figure 8: Enable Control Keys?

4.0 Level 1 Display Functions

- At Level 1, the panel operates in a display only mode with the control keys disabled.
- If fire alarm or trouble conditions exist, these will be shown by the LED Indicators and detailed information will be scrolled on the alphanumeric display.
- The information on the alphanumeric display can be scrolled manually by pressing either the > (forward) or the < (back) keys.

4.1 Normal Conditions

- When the system is in a normal condition, the green AC Power LED will be illuminated. The alphanumeric display will show the time and date and will alternate between a user programmed text message and a system status message.

4.2 Power Fail Conditions

- If the AC power source is interrupted, the AC Power LED will flash and the panel buzzer will sound.
- The back light illumination of the alphanumeric display will be turned off and the display will show an "AC Fail" message.
- If both the AC input and the Battery Standby Input fail then all LED and alphanumeric display indicators will be off.

4.3 Fire Alarm Conditions

- If the control panel initiates an alarm condition, the ALARM LED Indicators will be illuminated and, if appropriate, the relevant ZONE ALARM LED Indicators will flash. The internal buzzer will sound and the alphanumeric display will give detailed information regarding the fire alarm location.
- If more than one fire alarm condition is present, the alphanumeric display will either automatically scroll through or, can be manually scrolled through, the fire alarms registered.

4.4 Trouble Conditions

- If the panel detects a trouble, the SYSTEM TROUBLE LED is illuminated along with other appropriate system condition LED Indicators. The alphanumeric display gives detailed information regarding the nature of the trouble and the panel buzzer will sound.
- If more than one trouble condition is present, the alphanumeric display will either automatically scroll through or, can be manually scrolled through, the troubles registered.

Notes:

5.0 Level 2 Control Functions

- All of the functions and operational features described for Level 1 user are available and are the same for a Level 2 user.
- To enable Level 2 or Level 3 operation, press the SHIFT key. The display will then show:

  `[Panel ACTIVE Control Keys INHIBITED] [1]`
  `Do you want to enable the control keys?`

- Press the **YES** key and the display will prompt for entry of the password.

  `[Panel ACTIVE Control Keys INHIBITED] [1]`
  `Please Enter Password`

- Enter the **4-digit Level 2 password**. The display then shows the Main Menu of user options.

  `[ACTIVE] 1)Commission 2)Test  3)Time [1]`
  `4)Enable 5)Disable    6)Print 7)View`

- If a key has not been pressed for a certain period, the display will revert to the normal Level 1 display showing the system status message. To re-show the menu display, press the SHIFT key.
- If a key has not been pressed for a specified period of time, (normally 5 minutes – programmable), then Level 2 access will be automatically canceled. It will be necessary to re-enter the password to re-activate Level 2 functions.

5.1 Power Failure Condition

5.1.1 Power Failure Indication

- If the AC input is interrupted, the AC Power LED will flash and the panel buzzer will sound.
- The back light illumination of the alphanumeric display will be turned off. If the power failure lasts longer than one minute (programmable) the trouble condition will be latched and the display will show an "AC Fail" message.
- If the AC input returns before the one minute time has elapsed, the panel will return to normal operation, the AC Power LED will return to ON (Steady) and the buzzer will be automatically silenced.
- If both the AC input and the Battery Standby Input fail then all LED and alphanumeric display indicators will be off.

5.1.2 User Actions

- To silence the panel buzzer, press the TROUBLE SILENCE key. (

Note: *The buzzer will continue to briefly sound about once every 4 to 5 seconds to indicate continued loss of AC Power.*

- When the AC is restored, the AC Power LED returns to steady on and the alphanumeric display returns to normal.
- To clear the latched AC Trouble, press the SYSTEM RESET key.

5.2 Trouble Conditions

5.2.1 Trouble Indication

- If the panel detects a trouble, the SYSTEM TROUBLE LED is illuminated along with other appropriate system condition LED Indicators. The alphanumeric display gives detailed information regarding the nature of the trouble and the panel buzzer will sound.

5.2.2 User Actions

- To acknowledge the event and to silence the panel buzzer, press the TROUBLE SILENCE key. The TROUBLE SILENCE LED will then be illuminated.
- The panel will not allow a reset until the source of the trouble is corrected. If necessary, the panel allows the disabling of individual points and zones.
- After correcting the problem, press the RESET key. The SYSTEM TROUBLE, TROUBLE SILENCE and other appropriate system status LED Indicators will be turned off. The alphanumeric display returns to normal.

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Level 2 Control Functions

5.3 Fire Alarm Conditions

- The panel will indicate a fire alarm condition if it detects an alarm condition of if the FIRE DRILL key is pressed.

5.3.1 Fire Alarm Indications

- If the control panel initiates an alarm condition, the ALARM LED Indicator will be illuminated and, if appropriate, the relevant ZONE ALARM LED Indicators will flash. The internal buzzer will sound and the alphanumeric display will give detailed information regarding the fire alarm location.

- To test the alarm system, or to evacuate the building, press the FIRE DRILL key. The panel will activate all the NAC output circuits, will illuminate the ALARM LED Indicator and the alphanumeric display will indicate a 'Fire Drill'.

5.3.2 User Actions

- Press the TROUBLE SILENCE key to acknowledge the event and to turn off the internal buzzer. The TROUBLE SILENCED LED is turned on.

- Press the ALARM SILENCE key to silence the NAC output circuits. The SOUNDERS SILENCED LED is turned on. Press the ALARM SILENCE key again to reactivate the NAC outputs.

- Press the SYSTEM RESET key to reset the system.

5.4 User Option Functions

- The optional functions available to the user at Level 2 are shown in Table 6.

```
[ACTIVE] 1)Commission 2)Test  3)Time [1]
4)Enable 5)Disable    6)Print 7)View
```

Function	Description
Commission	This option is not available to Level 2 users. It requires the entry of the Level 3 password before the programming mode can be entered.
Test	Allows the user to test parts of the system. The following tests can be performed: LED To test the LED indicator lamps. This test will automatically test each zone indicator and then terminate. LCD To test the alphanumeric display. ZONES To perform a 'Walk Test' on one or more zones. OUTPUTS To test the relay and NAC outputs connected to the system. This test is only available to Level 3 users.
Time	To change the date and time in the panel.
Enable	To enable zones, inputs, outputs, keys and day mode operation.
Disable	To disable zones, inputs, outputs, keys and day mode operation.
Print	To print various reports on an internal or remote printer.
View	To view devices and system status conditions.

Table 6: User Menu Options

5.4.1 Test

- To display the Test Menu, press [2] and the display shows:

```
1)LEDs  2)LCD  3)Zones  4)Outputs
```

- The test menu allows the user to test:
    - The LEDs on the front panel display
    - The alphanumeric (liquid crystal) display
    - The detection and alarm initiating devices connected to the signaling loop.
    - The NAC outputs and other alarm condition output devices connected to the system

5.4.1.1 LEDs Test

- To select the option, press [1].
- To terminate the test, press [No].
- The panel will flash all of the indicators on the LED Display and will step through all the Zone ALARM and TROUBLE indicators.

5.4.1.2 LCD Test

- To select the option, press [2].
- To terminate the test, press [No].
- The alphanumeric display will flash all displayable characters in all positions of the display and then return to the menu.

5.4.1.3 Zones Test

- The 'Walk Test' option allows the user to conveniently test the detection and alarm initiating devices without having to continually reset the panel.
- To select the option, press [3].

IMPORTANT

If no action is taken at this point, the display will automatically revert to the normal display after 1 minute. Pressing SHIFT or > will return the display to the test display.

- The display will then prompt for whether the NAC outputs should ring:

```
Ring Bells?
```

- Press [Yes] and the NACs (dependent on their programming) will ring for a few seconds and then be reset automatically when a device is tested.
- Press [No] and the NACs will not ring.
- The panel can be set to test a range of zones. The display will prompt for the first zone to be tested:

```
Test from zone?
(Please key in number, then press "Enter")
```

- Key in the number of the first zone to be tested. For example, for zone 12, press [1]+[2]+[Enter].
- The display then prompts the last zone to be tested:

```
Test from zone      to zone?
(Please key in number, then press "Enter")
```

- Key in the number of the last zone to be tested. For example, for zone 15, press '**15 ENTER**'.
- the bottom line:

```
Test from zone 12    to zone 15
————W————————————————————————————
```

IMPORTANT

When the display indicates that the panel is in 'Walk Test', the display will continue to show that walk test mode is active. If there is no activity for 20 minutes, the panel will terminate the test.

- In the above example, any detector or initiating device going into alarm condition in zones 12, 13, 14 or 15 will:
  - Display an activation message on the alphanumeric display, write the event in the event log, sound the panel buzzer and illuminate the appropriate zone ALARM LED.
  - Turn on the LED at the sensor that initiated the alarm
  - After a few seconds, the panel will be automatically be reset and the detector LED turned off. The panel is then ready to test the next detector. (Note: Up to one minute is allowed for smoke detectors to clear).
- If an alarm signal is received from a zone other than those under test, then all NAC output and relay output circuits will activate as programmed for the zone in alarm. The NACs will continue to ring until silenced from the panel.
- Press [No] to terminate the walk test.

Level 2 Control Functions

5.4.1.4   Output Test

Access to this test option is only available to users with the Level 3 password.

- To select the option, press [4] and then enter the password **'####'**.
- To terminate the test, press [No].
- The output test allows the relays and NACs to be individually operated. The first six outputs are reserved for the panel's own onboard relay and NAC circuits as shown below:
    - Output 1 – Onboard Relay 1
    - Output 2 – Onboard Relay 2
    - Output 3 – Onboard NAC A
    - Output 4 – Onboard NAC B
    - Output 5 – Onboard NAC C   (Not available on D8024 panel!)
    - Output 6 – Onboard NAC D   (Not available on D8024 panel!)
- On entering the test, the display will show the current state of the first output:

```
RELAY        OPERATED
 1
```

- To advance to the next output, press the [>] or the [Yes] key.

```
RELAY        NOT OPERATED
 2
```

- To change the output state, press the [Change] key. The display will show the new state:

```
RELAY        OPERATED
 2
```

The onboard NAC circuits are constantly monitored for correct end-of-line termination. A NAC error will be reported if one of the NACs is left in the operated test state for more than 5 seconds.

5.4.1.5   Time

- To change the date and time shown on the alphanumeric display, press [3] from the main user option menu.

On multi-panel systems, it is only necessary to change the time at the Master Panel. All of the other panels will synchronize their date and time to that of the master panel when a reset is performed on the master panel.

5.4.1.6   Enable / Disable Functions

- To select the enable or disable menu options, press [4] or press [5] as required from the user main menu. The display shows for each option:

```
ENABLE    1)Zone     2)Input    3)Keys
          4)Day Mode 5)Outputs
```

```
DISABLE   1)Zone     2)Input    3)Keys
          4)Day Mode 5)Outputs
```

- The options available in each menu are identical. This allows the user to enable or disable:
    - Zones
    - Individual devices
    - Panel Keys
    - Day Modes
    - Outputs (NACs or relays)

5.4.1.7   Enable or Disable Zones

- To enable or disable input devices by zone, select option 1.

IMPORTANT

Any loop driven output devices such as NACs or relay modules will still activate as programmed even if disabled. Only the input signal from these devices will be ignored.

- Press [1] and the display will prompt for the required zone number.

```
Disable Zone      ?
( Enter number or use ">" to scroll )
```

- Key in the zone number and then press the [ENTER] key. Or use the [>] key to scroll through the zones.

```
Disable Zone 14 OK ?
```

- The display will then repeat the zone number and ask for confirmation (OK?). Press the [Yes] key to confirm.
- The panel will enable or disable the input devices in the zone.
- When a zone is disabled, the POINT BYPASSED LED and the corresponding yellow Zone TROUBLE LED will be illuminated.

5.4.1.8 Enable or Disable Inputs

- To enable or disable individual input devices, select option 2.

IMPORTANT

Any loop driven output devices such as NACs or relay modules will still activate as programmed even if disabled. Only the input signal from these devices will be ignored.

- Press [2] and the display will prompt for the signaling loop circuit number where the device is located.

```
Loop __
```

- Enter the required loop number (1-2 for D8024 or 1-5 for D10024A) and the display will prompt for the numeric address of the device:

```
Loop 2    Address ___
```

- Enter the address of the device required. If the address is less than 3-digits long (for example address 34), this can be entered as either [0]+[3]+[4] or [3]+[4] followed by [Enter].
- The display will then ask for confirmation (OK?).

```
Loop 2    Address 34    OK?
```

- Press the [Yes] key to confirm.
- When an individual point is disabled, the POINT BYPASSED LED will be illuminated.
- The corresponding Zone TROUBLE LED will only be illuminated if all devices in the zone are disabled.

5.4.1.9 Networked Panels

- Master panels are able to command other panels to enable or disable individual devices.
- In this case, the display will prompt with an additional, opening question requesting the panel (CPU) number.

```
CPU ___
```

- Enter the address of the required panel. The display will then prompt for the loop and device address information as described above.

5.4.1.10 Enable or Disable Keys

- To disable the panel control keys, press [3] from the disable menu.
- The user Level 2 password will then be required to re-enable the panel control keys and provide access to the User Option Functions.

IMPORTANT

The panel keys will be automatically disabled if a key has not been pressed for a pre-programmed period.

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Level 2 Control Functions

5.4.1.11 Enable or Disable Delayed Day Modes

- The Delayed Day Mode operation is configured at Level 3 by the installer / maintenance contractor. The Delayed Day Mode causes the panel to respond to high sensor signals by sounding the panel buzzer and displaying a warning message on the alphanumeric display. The panel delays the activation of the alarm condition outputs (NACs or relays) for a programmed period.

- The user may enable or disable the operation of the Delayed Day Mode through the Enable or Disable Menus.

- To select Delayed Day Mode, press [4] from the Enable or Disable Menus.

- When enabling the operation of the Delayed Day Mode function, the display prompts for the number of days the Delayed Day Mode is to be in operation.

```
Use day mode for the next 2 days OK?
```

- If the prompted number of days is not as required, press the [Change] key and then enter the required number of days.

- In the above example, the Delayed Day Mode will be effective for today and tomorrow. The day after tomorrow, the panel will go immediately into a full fire alarm condition on receiving a high signal from a device.

- The number of days can be selected in the range 001 to 199. To permanently enable the Delayed Day Mode operation, enter the number of days as 200.

5.4.1.12 Enable or Disable Outputs

- All output devices (i.e. NACs and relays) can be disabled or enabled for test purposes.

- To enable or disable an output device, press [5] from the enable or disable menus.

- The display then shows a menu of the devices available and their current enable / disable status:

```
1)Sounders     2)Relays
  ENABLED       DISABLED
```

- The POINT BYPASSED and either the SOUNDERS DISABLED or RELAYS BYPASSED LED indicators will be illuminated when the outputs are disabled. A warning message will also be shown on the alphanumeric display.

- The NACs can only be disabled after confirmation by re-entering the Level 2 password.

5.4.1.13 Print

- To select the print menu, press [6] from the user main, option menu. The display then shows:

```
PRINT :    1)Devices 2)Events 5)Disabled
(-)        3)Mode    4)Setup
```

- This menu controls the operation of the optional front panel printer on the D10024A panel only. The user options are as follows:

Options	Description
Devices	prints out the present status and text assigned to all devices on a loop.
Events	prints out the contents of the event log.
Mode	sets the printing mode. The current mode of operation is shown on the display. The possible modes are:

	Manual	prints on demand only
	Auto	automatically prints troubles and fire alarms as they occur
	-	the printer is turned off

Options	Description
Setup	sets the type of printer connected to the panel.
Disabled	prints a list of all disabled devices.

Table 7: Print Options

IMPORTANT

The printer Setup option can only be performed at Level 3 by an installer / maintenance contractor.

5.4.2 View

- To select the view menu, press [7] from the user main, option menu. The display then shows:

```
VIEW :    1)Devices 2)Log 5)Faults
4) Ouputs 5)Disablements  6)Sys Events
```

- This menu allows the user to view information about the selected option on the alphanumeric display.
- After viewing an option, press [No] to return to the view menu. From the view menu, press [No] to return to the main options menu.
- The following View Mode Options are available:

View Option	Description of Function
Devices	Displays the status and text of anyone detector on a signaling loop. The panel prompts for the loop number and device address.
Log	Displays the contents of the event log. Events can be scrolled forwards or backwards using the [>] or [<] keys.
Faults	Displays the current panel fault status. The display is identical to the automatic trouble / fire alarm display, but with the ability to manually scroll through all the troubles using the [>] and [<] keys.
Outputs	Displays the required state of all output (NAC and relay) devices. Pressing the [*Silence / Resound*] key turns all NACs to an off condition.
Disablements	Displays a sub menu from which the following can be selected 1) Zones- Allows all zones that are in either a full or a partial state of disablement, to be viewed. 2) Inputs- Allows viewing of all inputs that are disabled.
Sys Events	The top line of the display shows the event number (1 – 200). The bottom line, immediately beneath the event number, shows whether the event is present (+) for non latched events, (*) for latched events or (-) for inactive events.

Table 8: View Mode Options

Notes:

6.0   Delayed Day Mode Operation

- The panel can be configured to operate in a delayed day mode during the daytime for any specified zone.
- During this time, high sensor signals received from a detector will generate a fire alarm message on the panel but delay the ringing of the NACs. The panel will initiate a full fire alarm condition if no action is taken on this warning within a specified period.
- The use of delayed day mode must be configured at Level 3 by an installer / maintenance contractor before it is available for use at Level 2.
- The delayed day mode can be configured to only operate at specified times of the day and only in specified zones if required. The maximum time allowed to acknowledge stage 1 and stage 2 times can be programmed in intervals of one second.

6.1   Stage 1

- When a fire alarm condition is detected during delayed day mode, the internal buzzer will sound. The sensor location will be shown on the display along with a warning that the panel has entered stage 1 of a delayed alarm.
- If the warning is not acknowledged, by pressing [*Silence / Resound*], within the time allowed for stage 1, then a full fire alarm condition will be raised and the NAC outputs will activate.
- Pressing [*Silence / Resound*] within the time allowed will cause stage 2 of the delayed alarm.

6.2   Stage 2

- The stage 2 timer commences counting down as soon as the panel receives the initial high signal from the detector. (i.e. it commences at the same time a stage 1 begins).
- Setting the stage 2 timer to a longer period than the stage 1 timer will allow the user to investigate the cause of the alarm and take appropriate action.
- If the panel is not reset, using the [*System Reset*] key, within the time allowed then a full fire alarm condition will be raised and the NAC outputs will activate.

IMPORTANT

Manual Stations will always generate an immediate fire alarm condition regardless of an delayed day mode settings.

Notes:

7.0 Level 3 Programmer Functions

Refer to the *D8024/D10024A Operation and Installation Manual* (PN 50616) for complete information on commissioning and programming the D8024 and D10024A Fire Alarm Control Panels.

Notes:

8.0 Log Book

- In accordance with best practice, the user should maintain a logbook to record all events resulting from or affecting the system. The logbook should be kept in a place accessible to authorized persons (preferably near the main panel.

- One or more identifiable individuals should be appointed to oversee or carry out all entries in the logbook. The names of the persons (and any changes of responsible person) should be recorded.

- All events should be properly recorded (events include real and false fire alarms, troubles, pre-alarm warnings, tests, temporary disconnection's and service visits). A brief note of any work carried out or outstanding should be made.

- Sample pages of the logbook are provided here and can be photocopied to produce a suitable logbook. The sample below is for reference data (e.g. the name of the responsible person), while the sample on the next page is for the entry of event information.

8.1 REFERENCE DATA

Site Name and Address:			
Site Telephone Number:			
Responsible Person:		Date	
		Date	
		Date	
		Date	
The system was installed by:			
		Date	
And is maintained under contract by:			
		Until	
Contact Telephone Number:		If Service is Required.	

Table 9: Logbook Reference Data

8.2 EVENT DATA

Date	Time	Counter Reading	Event	Action Required	Date Completed	Initials

Table 10: Logbook Event Data