



EST3X User Guide

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Manufacturer	<p>Edwards, A Division of KGS Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL 34202, USA</p>
Version	<p>This document applies to EST3X control panels with firmware version 1.0.</p>
FCC compliance	<p>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. 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.</p>
Contact information	<p>For contact information, see www.kidde.com.</p>

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Important information

Limitation of liability

To the maximum extent permitted by applicable law, in no event will KGS FS be liable for any lost profits or business opportunities, loss of use, business interruption, loss of data, or any other indirect, special, incidental, or consequential damages under any theory of liability, whether based in contract, tort, negligence, product liability, or otherwise. Because some jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages the preceding limitation may not apply to you. In any event the total liability of KGS FS shall not exceed the purchase price of the product. The foregoing limitation will apply to the maximum extent permitted by applicable law, regardless of whether KGS FS has been advised of the possibility of such damages and regardless of whether any remedy fails of its essential purpose.

Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

While every precaution has been taken during the preparation of this manual to ensure the accuracy of its contents, KGS FS assumes no responsibility for errors or omissions.

EST3X FCC compliance

This equipment can generate and radiate radio frequency energy. If the equipment is not installed in accordance with this manual, it may cause interference to radio communications. This equipment has been tested and found to comply with the limits for Class A computing devices pursuant to Subpart B of Part 15 of the FCC Rules. These rules are designed to provide reasonable protection against such interference when this equipment is operated in a commercial environment. Operation of this equipment is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

3-MODCOM FCC compliance

Cautions

- To ensure proper operation, this dialer must be installed according to the enclosed installation instructions. To verify that the dialer is operating properly and can successfully report an alarm, it must be tested immediately after

installation, and periodically thereafter, according to the enclosed test instructions.

- In order for the dialer to be able to seize the phone line to report an alarm or other event when other customer equipment (telephone, answering system, computer modem, etc.) connected to the same line is in use, the dialer *must* be connected to a properly installed RJ-31X jack. The RJ-31X jack must be connected in series with, and ahead of, all other equipment attached to the same phone line. Series installation of an RJ-31X jack is depicted in the wiring diagram. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer.

Testing

When programming emergency numbers or making test calls to emergency numbers, remain on the line and briefly explain to the dispatcher the reason for the call. Perform programming and testing activities in the off-peak hours, such as early morning or late evenings.

Compliance

- **For equipment approved before July 23, 2001:** This dialer complies with Part 68 of the FCC rules. A label attached to the dialer contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

For equipment approved after July 23, 2001: This dialer complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council for Terminal Attachments (ACTA). A label attached to the dialer contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this information must be provided to the telephone company.

- The plug and jack used to connect the dialer to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. The dialer must be connected to a compliant RJ-31X or RJ-38X jack using a compliant cord. If a modular telephone cord is supplied with the dialer, it is designed to meet these requirements. See installation instructions for details.
- A ringer equivalence number (REN) is used to determine how many devices you can connect to a telephone line. If the total REN value for all devices connected on a telephone line exceeds that allowed by the telephone company, the devices may not ring on an incoming call. In most (but not all) areas the total REN value should not exceed 5.0. To be certain of the total REN value allowed on a telephone line, contact the local telephone company.

For products approved after July 23, 2001, the REN is part of the product identifier in the format US:AAAEQ##TXXXX. The digits ## represent the REN without a decimal point. Example: 03 is an REN of 0.3. For earlier products the REN is listed separately.

- If the dialer is harming the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone company will notify you as soon as possible. You will also be advised of your right to file a complaint with the FCC, if you believe it is necessary.
- The telephone company may make changes to its facilities, equipment, operations, or procedures that could affect the operation of the dialer. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- If you are experiencing problems with the dialer, contact the manufacturer for repair or warranty information. If the dialer is harming the telephone network, the telephone company may request that you disconnect the dialer until the problem is resolved.
- The dialer contains no user serviceable parts. In case of defects, return the dialer for repair.
- You may *not* connect the dialer to a public coin phone or a party line service provided by the telephone company.

3-MODCOM Industry Canada information

Note: 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 disconnect the equipment.

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

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. This precaution may be particularly important in rural areas.

Note: The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirements that the sum of the Load Numbers of all the devices does not exceed 100.

Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

Fire alarm system limitations

The purpose of an automatic fire alarm system is to provide early detection and warning of a developing fire. There are a number of uncontrollable factors that can prevent or severely limit the ability of an automatic fire alarm system to provide adequate protection. As such, an automatic fire alarm system cannot guarantee against loss of life or loss of property.

Two main causes of system failures are improper installation and poor maintenance. The best way to minimize these types of system failures is to have only trained fire alarm system professionals design, install, test, and maintain your fire alarm system in accordance with national and local fire codes.

Fire alarm systems will not operate without electrical power. As fires frequently cause power interruption, we suggest that you discuss ways to safeguard the electrical system with your local fire protection specialist.

In the event your EST3X control panel needs servicing, please contact your system service provider as soon as possible. Refer to “Service provider information” on page 38 for their name and contact information.

Intended audience

The intent of this document is to provide the EST3X life safety system owner with control panel operating instructions. You may assume that your site-specific software has been installed and that the final overall system testing has been completed prior to you using this guide. The extent of your use with panel buttons, indicators, and menus is dependant upon your access privileges.

Chapter 1

Introduction

Summary

This chapter provides information about your EST3X control panel to give you a basic understanding of its operation.

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System overview

The EST3X control panel can operate as a stand-alone panel, as part of a 64-node EST3X life safety network, or as part of a 64-node EST3 life safety network. The EST3X control panel is listed for the following types of service:

- Commercial protected premises fire alarm control unit
- Smoke control system
- Releasing device control unit
- Emergency communication and relocation

The EST3X control panel is also listed for use as a burglary annunciator when connected to an EST3 life safety system that includes security features.

The EST3X user interface includes indicators and operator controls that allow you to respond quickly in emergency situations. The EST3X user interface gives you the ability to view message details and system reports, and to enable and disable devices and groups. With the correct access level passwords, you can activate and restore sensitivity settings and message routing, test system devices, and other tasks.

System hardware capabilities

The EST3X control panel, in its basic configuration, supports up to:

- 250 addressable devices
- Four Class B notification appliance or auxiliary power output circuits
- 30 remote or graphic annunciators for a total of 30 sets of common controls, 3,840 LED indicators, and 1,920 switches
- Two RS-232 ports (one RJ-11 modular jack for panel programming and diagnostics and one terminal block connection for connecting accessory devices)

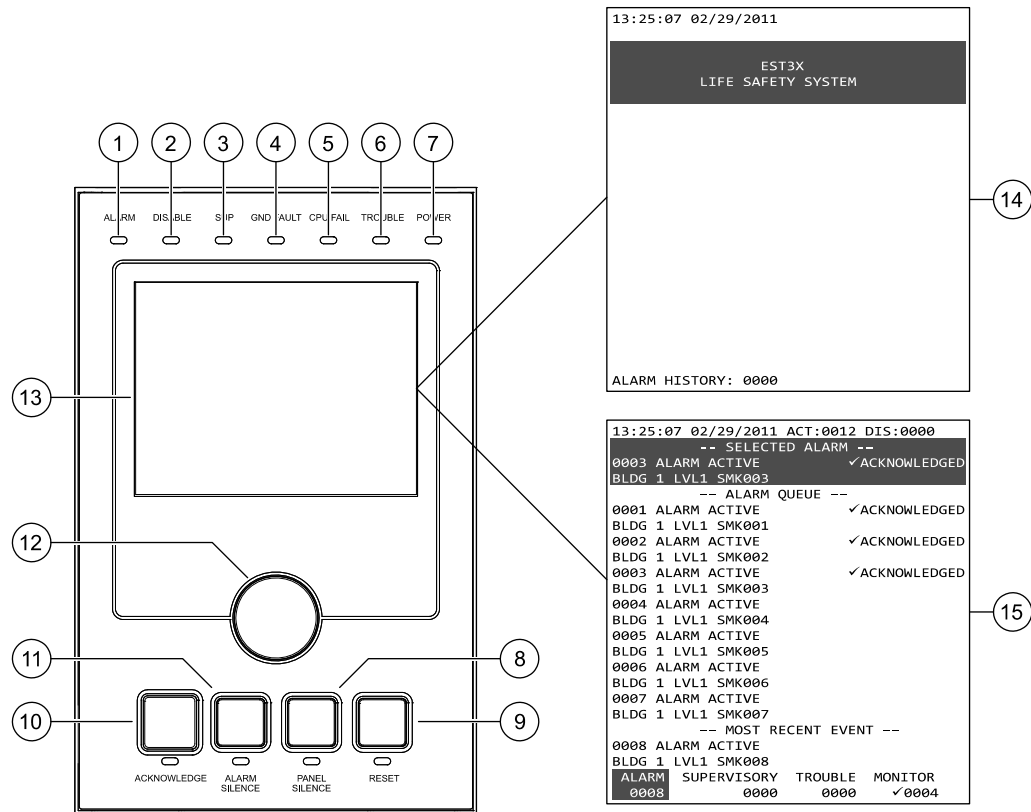
With the proper hardware options, you can expand the EST3X control panel to support:

- 1,250 additional addressable devices (1,500 total)
- 24 Class B initiating device circuits
- 12 additional Class B notification appliance circuits (16 total)
- Four Class A notification appliance or auxiliary power output circuits

- Three reverse polarity outputs
- Three control-display modules for a total of 72 local LED indicators and 36 local switches
- Two dialer outputs
- One Ethernet connection for panel programming and diagnostics
- Live voice and prerecorded audio messaging
- Connection to an EST3X or EST3 life safety network using copper, fiber optics, or both (maximum network size may not exceed 64 nodes)

Overview of controls and indicators

Figure 1: 4X-LCD User Interface



- | | |
|---------------------------------|--|
| 1. Alarm LED | 11. Alarm Silence button and LED |
| 2. Disable LED | 12. Rotary controller |
| 3. SUP (Supervisory) LED | 13. Display |
| 4. GND Fault LED | 14. Normal display screen (see Figure 2) |
| 5. CPU Fail LED | 15. Off-normal display screen (see Figure 3) |
| 6. Trouble LED | |
| 7. Power LED | |
| 8. Panel Silence button and LED | |
| 9. Reset button and LED | |
| 10. Acknowledge button and LED | |

Figure 2: Normal screen

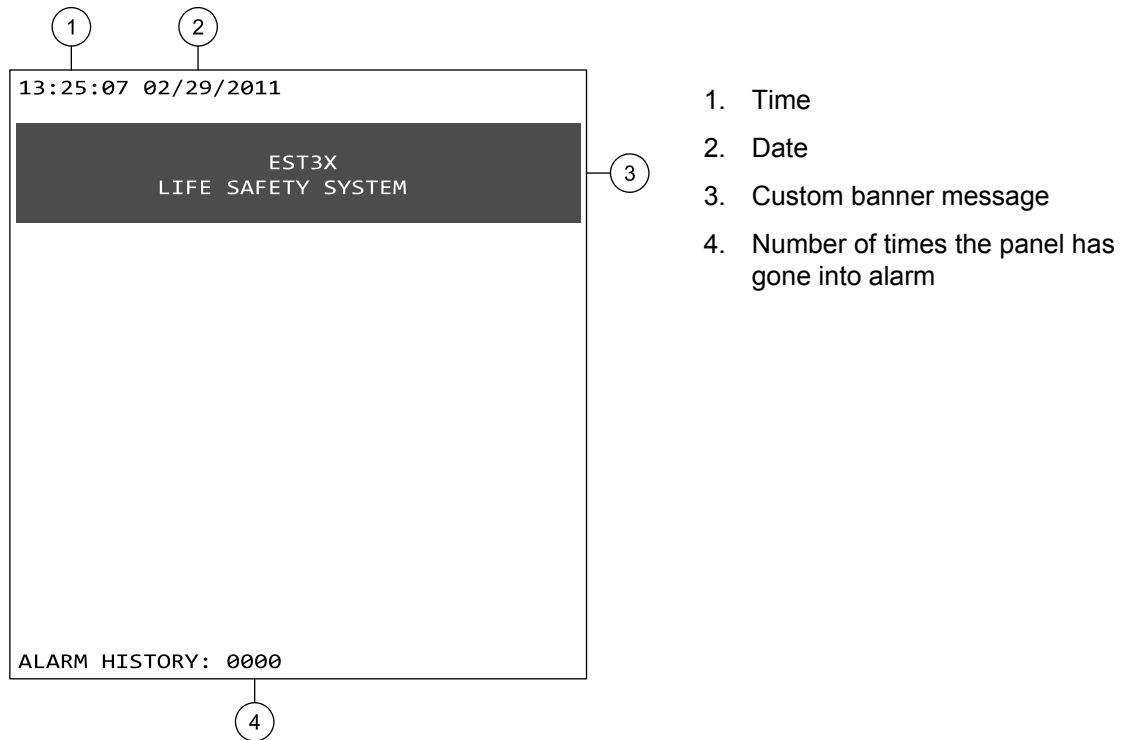


Figure 3: Off-normal screen

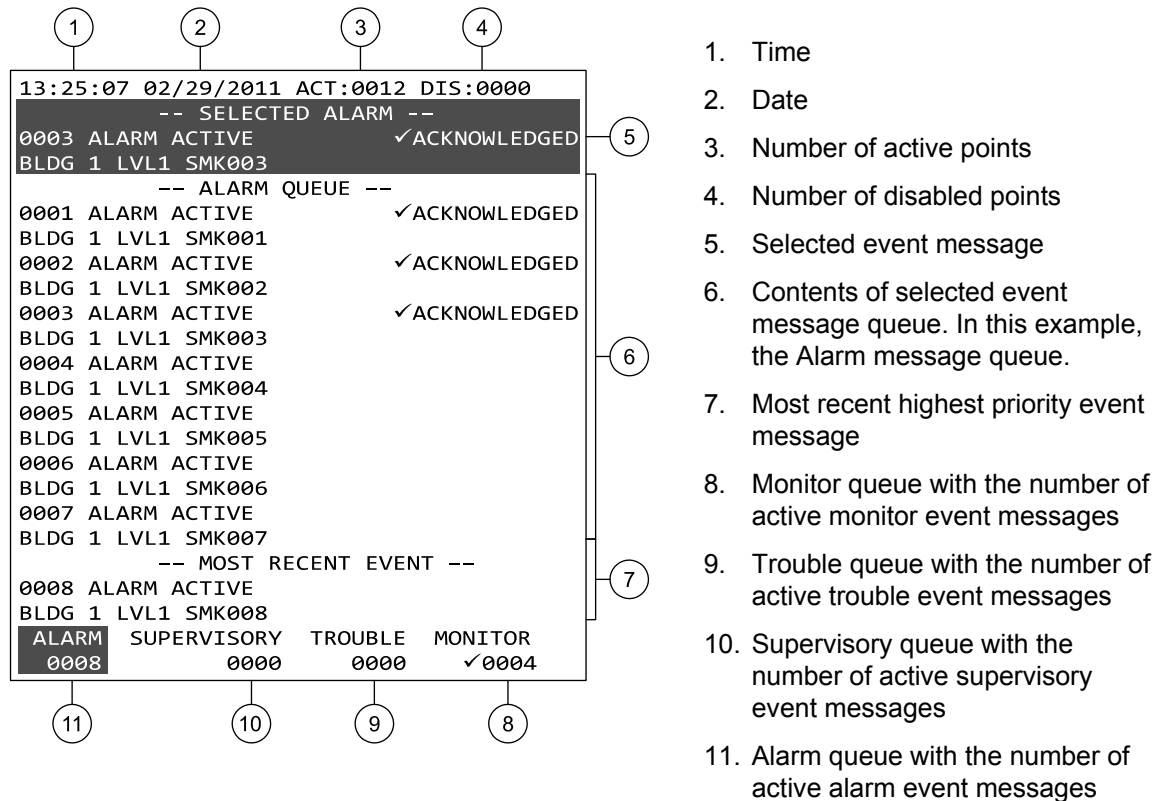
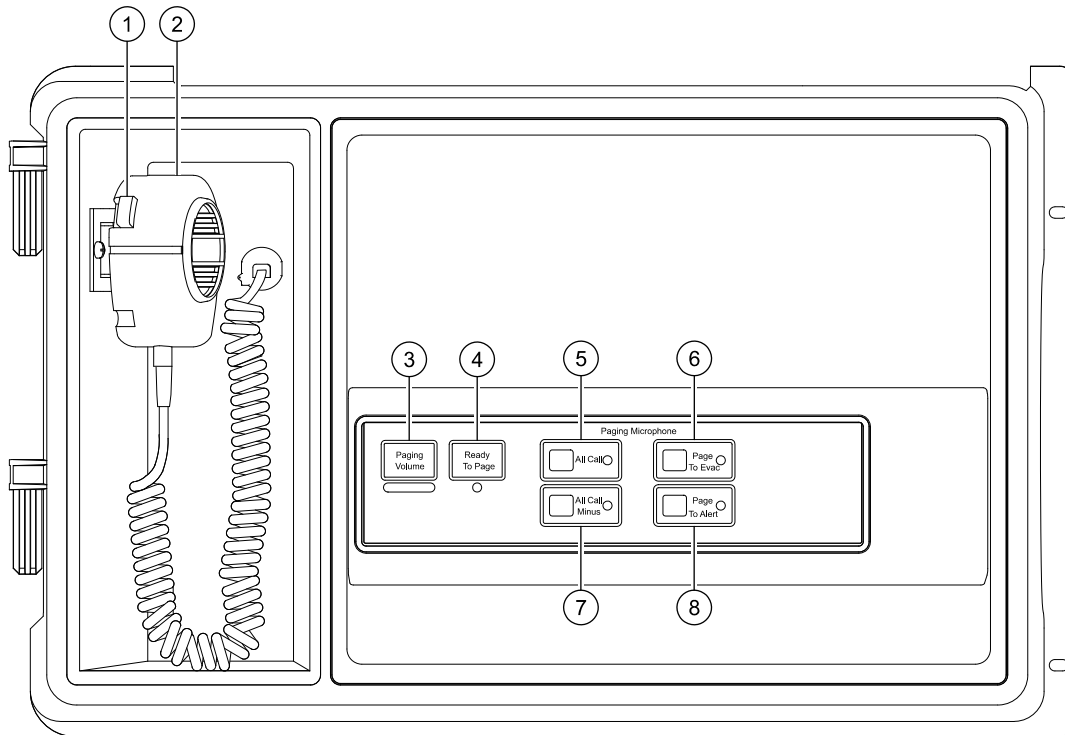
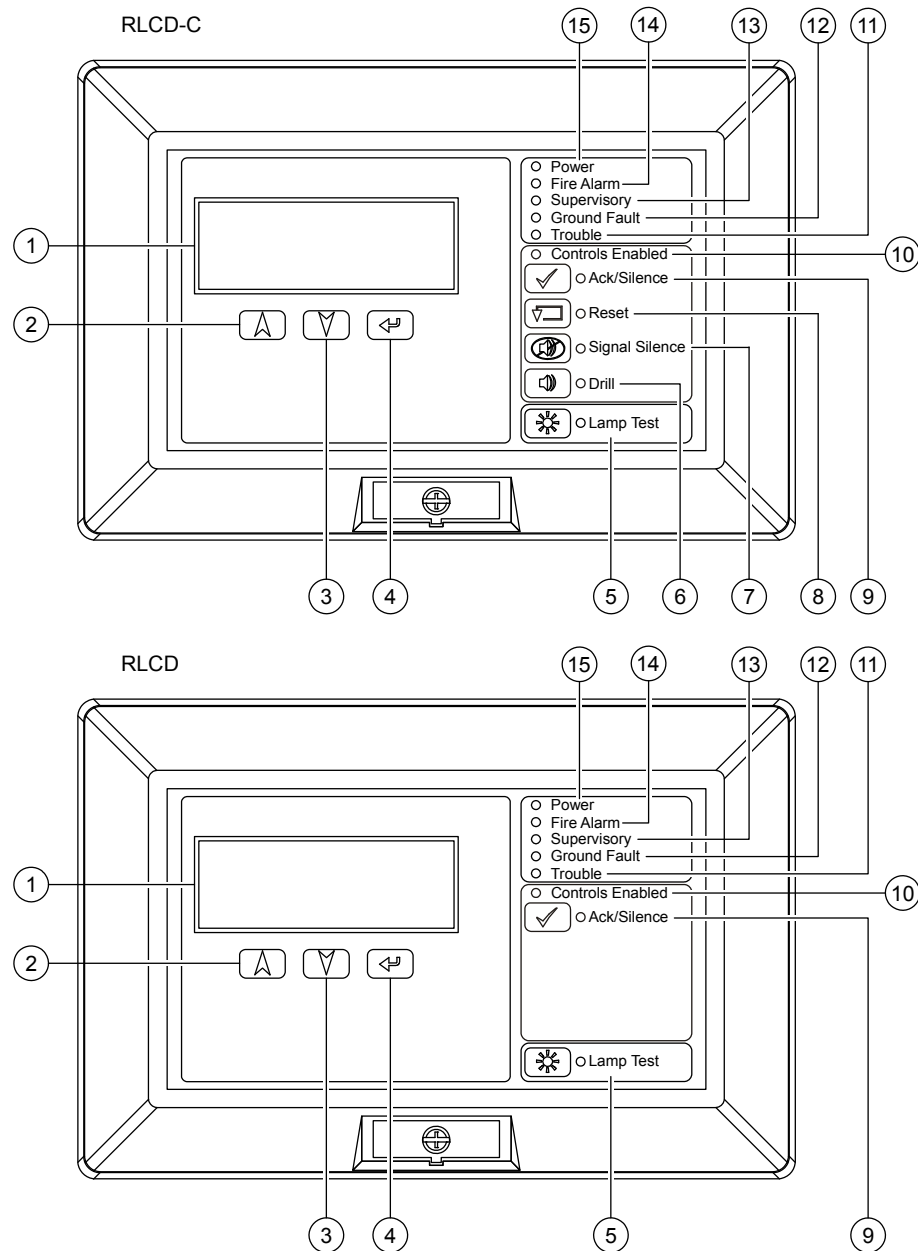


Figure 4: 3X-PMI Paging Microphone Interface

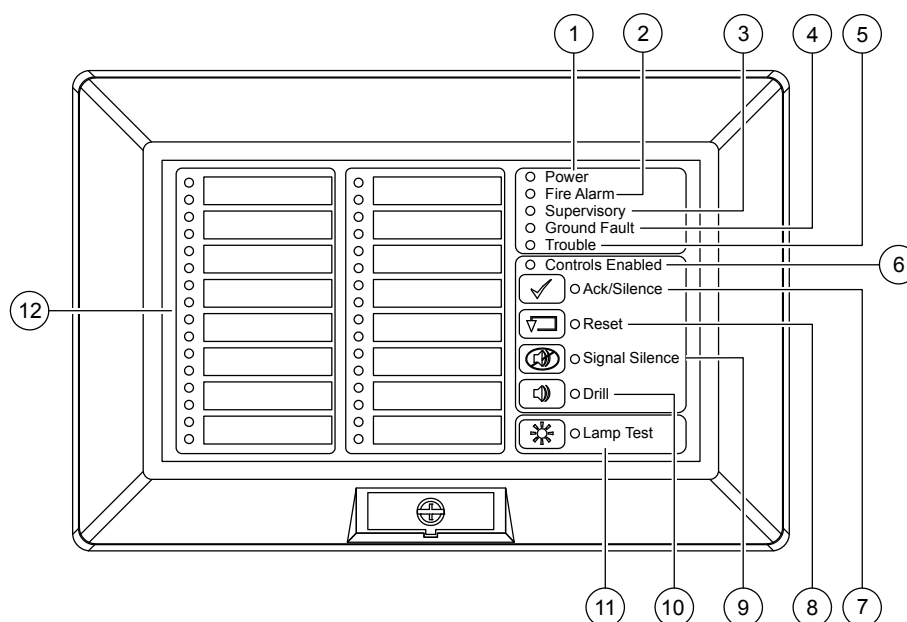


- | | |
|---|----------------------------------|
| 1. Push-to-talk button | 5. All Call button and LED |
| 2. Paging Microphone | 6. Page to Evac button and LED |
| 3. Paging volume indicator (indicates the sound level of the person speaking into the microphone) | 7. All Call Minus button and LED |
| 4. Ready to page LED | 8. Page to Alert button and LED |

Figure 5: RLCD-C and RLCD Remote Annunciator

- | | |
|----------------------------------|-------------------------------|
| 1. Display | 9. Ack/Silence button and LED |
| 2. Up button | 10. Controls Enabled LED |
| 3. Down button | 11. Trouble LED |
| 4. Enter button | 12. Ground Fault LED |
| 5. Lamp Test button and LED | 13. Supervisory LED |
| 6. Drill button and LED | 14. Fire Alarm LED |
| 7. Signal Silence button and LED | 15. Power LED |
| 8. Reset button and LED | |

Figure 6: RLED-C Remote Annunciator



- | | |
|-------------------------|----------------------------------|
| 1. Power LED | 7. Ack/Silence button and LED |
| 2. Fire Alarm LED | 8. Reset button and LED |
| 3. Supervisory LED | 9. Signal Silence button and LED |
| 4. Ground Fault LED | 10. Drill button and LED |
| 5. Trouble LED | 11. Lamp Test button and LED |
| 6. Controls Enabled LED | 12. Programmable LEDs |

System operation

The basic function of the EST3X control panel is to monitor status changes in the life safety system and to activate outputs according to the site-specific software. Status change signals, also called events, are classified as follows:

- Alarm (highest priority): Events that signal fire alarms or other life-threatening emergencies
- Supervisory: Events that signal off-normal conditions with sprinkler and extinguishing systems and other equipment related to property safety
- Trouble: Events that signal faults within the system
- Monitor (lowest priority): Events that signal the operation of ancillary equipment

During normal operation (no events), the EST3X control panel displays the Normal screen (see Figure 2). When the automatic fire detection system signals a status change, the EST3X control panel:

- Posts the event message for the point that activated the event into the appropriate event message queue and displays the off-normal screen (see Figure 3)
- Turns on the corresponding system status LED
- Turns on the panel buzzer to the pattern for the highest priority active event
- Displays the most recent, highest priority event message (see Figure 3)
- Activates common relays and programmed outputs

Event messages

The EST3X control panel uses event messages to identify points that signal a status change. The first line of the event message displays the event number and the event name. The second line displays the message text. The message text is either the address of the point that activated the event or, if programmed, a location description.

Event messages are stored in queues. There is one queue for each type of event message (see Figure 3).

The EST3X control panel automatically displays the content of the highest priority event message queue, except when you are viewing event messages in another queue. If you are viewing event messages in one queue when a higher priority event message is placed in another queue, the EST3X control panel continues to display the content of the current queue until the user timeout period expires or until you select the other queue.

To view an event message in the current queue:

1. Turn the rotary controller to select the event message. The selected event message appears in the highlighted area at the top of the display.

To view an event message in another queue:

1. Click the rotary controller to display the Queue Menu.
2. Click the event message queue from the list of options.
3. Turn the rotary controller to select the event message.

To get details about an event message:

1. Select the event message.
2. Click the rotary controller to display the Queue Menu.
3. Click Details.

User access levels

The EST3X control panel uses access levels to prevent unauthorized users from operating certain controls and menu commands. Access levels 1 to 4 require a password. Access level 0 does not. Table 1 lists the operator controls and menu commands available for each access level.

Once you have entered an access level password you do not have to enter it again for any operator control or menu command with the same access level or lower unless the user timeout period expires. After that, you are required to enter the access level password again. The user timeout period is typically set for 5 minutes.

See your project documentation for the access level passwords programmed for your system.

Table 1: User access level privileges

User access level	Privileges
Level 0 (No password required)	<ul style="list-style-type: none"> • Acknowledge function (button) • Alarm silence function (button) [1] • Panel silence function (button) [1] • Reset function (button) [1] • Event details • Statuses • Reports • Drill function (activate/restore) • Output selection • Display/printer selection • Printer selection • Toggle language
Level 1	All level 0 privileges, plus: <ul style="list-style-type: none"> • Guard patrol routes (activate/restore)

User access level	Privileges
Level 2	<p>All level 0 and level 1 privileges, plus:</p> <ul style="list-style-type: none"> • Devices (enable/disable) • Zone groups (enable/disable) • Remote read lock (activate/restore) • Remote write unlock (activate/restore) • Sensor bypass (activate/restore) • Gas accel response (activate/restore) • Alternate sensitivity (activate) • Alternate message route (activate) • Primary sensitivity (restore) • Primary message route (restore) • Change time (program) • Change date (program) • Security devices (bypass/remove bypass) • Security partitions (arm/disarm) • Change password for level 1 (program)

[1] May be programmed to require an access level password. See your project documentation for details.

Using the rotary controller

The EST3X rotary controller performs the functions of a computer keyboard and the Enter key. Turning the rotary controller allows you to scroll through event messages on the LCD screen, menus and lists, and numbers for panel, card, and device addressing. Pressing (clicking) the rotary controller allows you to access event message details, menus, and selection screens and to enter address numbers and backspaces.

Selecting menus and commands

Press the rotary controller to access the first menu, from which you will access other menus. For all menus, turn the dial to scroll to a desired selection. Press the dial to click the selection.

Returning to the event message screen or previous screen

Pressing the rotary controller while in certain screens returns you to the event message screen or to the previous screen.

Note: Pressing the Acknowledge button also returns you to the event message screen or to the previous screen.

Returning to the previous screen from an address field

In an address field, you can return to the previous screen from the first number in the field by turning the rotary controller to the “<” character and then pressing the dial.

For example, in the address field below you are positioned at the first number. If you click the “<” character you will return to the previous screen.

```
ENTER DEVICE  
<PCCDDDD
```

Entering a panel, card, or device address

To enter a panel, card, or device address, turn the rotary controller clockwise or counterclockwise to scroll to the desired number (0-9), and then press it to enter the number. Pressing the rotary controller automatically moves the cursor to the next number position.

Note: You do not have to enter a panel number except when you want to enter the panel, card, or device address for a remote EST3X control panel. See your project documentation for a list of panel numbers.

Backspacing

In an address field, you can backspace to a previous number by turning the rotary controller to scroll to the “<” character and then pressing the dial. You can then enter the number.

In the address example below, you will be able to change the number 3.

```
ENTER DEVICE  
0103<DDDD
```

Using the paging microphone

The 3X-PMI Paging Microphone Interface (see Figure 4) gives emergency responders the ability to broadcast instructions to occupants throughout the protected premises. There are four types of page you can make:

- All Call: Broadcasts live voice messages throughout the facility
- Page to Evac: Broadcasts live voice messages only to areas receiving evacuation signals
- Page to Alert: Broadcasts live voice messages only to areas receiving alert signals
- All Call Minus: Broadcasts live voice messages only to areas that are not receiving evacuation signals or alert signals

To make an announcement using the paging microphone:

1. Select the area to receive the page by pressing the appropriate page function button. The button's LED indicates when the system is ready for you to speak.
2. Press the PTT button on the microphone. The Ready to Page LED flashes while the preannouncement tone is sounding.
3. Begin speaking once the Ready to Page LED is on steady. Adjust your voice level so that the Paging Volume indicator only flickers occasionally in the middle. Avoid speaking so loud that the Paging Volume indicator lights all the way to the right.
4. When you are finished speaking, release the PTT button, and then press the page function button again to cancel the page and return the system to its previous condition.

Note: The system automatically cancels the page and returns to its previous condition after a short delay if you do not cancel the page manually.

Chapter 2

Basic operating instructions

Summary

This chapter provides instructions for operating the basic features of your EST3X life safety system. Basic features are those that anyone can operate. Typically, basic features do not require passwords.

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Checking for active points

The EST3X control panel provides the following status reports to help you find out if any points in the system are in an active or other off-normal state:

- All Active Points: Lists all points that are in an active or other off-normal state (trouble, disable, etc.)
- Alarm: Lists all alarm points that are in the active state
- Supervisory: Lists all supervisory points that are in the active state
- Trouble: Lists all points that are in the trouble state
- Monitor: Lists all monitor points that are in the active state
- Test: Lists all points in an active service group that are in the active or trouble state
- Disabled Points: Lists all points that are in the disabled state
- Outputs: Lists all output points that are in the active state (audibles, visibles, panel LEDs)

To check for active points:

1. Access the Main menu, and then click Status.
2. Click one of the reports described above.
3. Enter the panel address (PP).
4. Click Display and scroll through the report.
— or —
Click Print Locally.
5. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Finding detectors that may need servicing

The EST3X control panel provides the following maintenance reports to help you find out if any addressable smoke detectors need servicing:

- **Dirty Devices > 80%:** Lists all addressable smoke detectors that have a %Dirty value of greater than 80%. Smoke detectors that are more than 80% dirty should be cleaned or replaced as soon as possible.

Note: The %Dirty value is an indication of a smoke detector's ability to compensate for dust and dirt buildup inside the chamber. Smoke detectors with higher %Dirty values are less able to compensate.
- **Dirty Devices > 20%:** Lists all addressable smoke detectors that have a %Dirty value greater than 20%. A smoke detector that is more than 20% dirty should be noted for possible cleaning or replacing.
- **Single Device:** Lists the %Dirty value for a single smoke detector. The report also includes the smoke detector's model type, primary and alternate alarm sensitivity values, and, if programmed, a location description. To view this report you must know the device address of the smoke detector.
- **Devices on a Card:** Lists the %Dirty value for all of the smoke detectors on a signaling line circuit. The report also includes each smoke detector's model type, primary and alternate alarm sensitivity values, and, if programmed, a location description. To view this report you must know the panel number, card number, and loop number of the signaling line circuit.

To find detectors that may need servicing:

1. Access the Main Menu, click Reports, and then click Device Maintenance.
2. Click one of the reports described above.
3. Enter the device address (PPCCDDDD), or the loop address (PPCCL).
4. Click Display and scroll through the report.

— or —
Click Print Locally.
5. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Viewing history reports

The EST3X control panel provides the following history reports for determining when the last 1,100 events and operator commands were activated or restored:

- **History with Text:** Provides a history of events and operator commands logged by the panel. For each point that activated or restored, the detail includes the point's message text.
- **History without Text:** Provides a history of events and operator commands logged by the system. For each point that activated or restored, the detail includes the point's device address.

To view a history report:

1. Access the Main Menu, click Reports, and then click History.
2. Click one of the reports described above.
3. Enter the panel address (PP).
4. Click Display and scroll through the report.
— or —
Click Print Locally.
5. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Finding firmware and database version numbers

By viewing a Revisions report, you can find the version numbers for the following:

- The CPU firmware
- The project database and the SDU used to compile and download the project database
- The audio database, if equipped with a paging microphone
- The application code (firmware), bootloader code, and database for each card installed in the panel

To view the Revisions report:

1. Access the Main Menu, click Reports, and then click Revisions.
2. Enter the panel address (PP).

3. Click Display and scroll through the report.
— or —
Click Print Locally.
4. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Viewing the alarm count

The EST3X control panel records how many times it went into the alarm condition. During normal operation, the alarm count is displayed on the LCD. When the EST3X user interface displays the off-normal screen, you must run a Revisions report to see the alarm count.

To view the alarm count:

1. Access the Main Menu, click Reports, and then click Revisions.
2. Enter the panel address (PP).
3. Click Display and scroll through the report. The alarm count is on the second line of the report.
— or —
Click Print Locally.
4. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Determining panel TCP/IP settings

If your panel is equipped with an Ethernet (TCP/IP) connection, you may be asked to provide the IP address, subnet mask, and gateway settings.

To determine the panel TCP/IP settings:

1. Access the Main Menu, click Reports, and then click Revisions.
2. Enter the panel address (PP).
3. Click Display and scroll through the report. The settings are at the bottom of the report.
— or —
Click Print Locally.

4. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Determining if your 3-MODCOM is NFPA 72 compliant

A MODCOM compliance report tells you if the 3-MODCOM installed in the panel meets NFPA 72 configuration requirements. The report does not indicate why the 3-MODCOM may be noncompliant.

To view the MODCOM Compliance report:

1. Access the Main Menu, click Reports, and then click Modcom Compliance.
2. Enter the panel address (PP).
3. Click Display and scroll through the report.
— or —
Click Print Locally.
4. When finished, click the rotary controller or press the Acknowledge button to exit the report.

Silencing the panel buzzer

The EST3X control panel sounds the panel buzzer when an event message is posted into one of the event message queues. Pressing the Panel Silence button or acknowledging the event message silences the buzzer. The panel buzzer automatically re-sounds when a new event message is posted or when the panel trouble re-sound timer expires (typically after 24 hours).

Notes

- The panel buzzer may be configured to sound periodically to remind you that the panel has been silenced.
- For nonlatching events, the panel buzzer automatically silences when the event is restored.
- Pressing the Panel Silence button also silences the buzzer on remote annunciators, provided that the remote annunciators are communicating.

To silence the panel buzzer:

1. Press the Panel Silence button or acknowledge the event message.
2. If prompted, enter the access level password.

Silencing alarm signals

WARNING: Death or serious injury. The protected premises may be occupied. Do not silence alarm signals or reset the control panel unless you are authorized to do so and only after all occupants have been evacuated.

Pressing the Alarm Silence button silences all audible alarm signals and, if configured, all visible alarm signals. Pressing the Alarm Silence button *does not* silence alarm signals under the following conditions:

- When a waterflow alarm switch is active and the system is configured to prevent silencing alarm signals activated by a waterflow alarm switch
- When the system is configured to delay the silencing of alarm signals, in which case the Alarm Silence button may be inoperable for up to three minutes following an alarm event

Silenced alarm signals automatically turn back on when:

- The Alarm Silence button is pressed a second time
- Another alarm input activates
- Another alarm input in the same zone activates, unless the system is configured to prevent it

To silence alarm signals:

1. Press the Alarm Silence button.
2. If prompted, enter the access level password.

Acknowledging events

Acknowledging an event confirms that you have seen the event message. When you acknowledge an event, the EST3X control panel places a check mark and the word “Acknowledged” next to the event. On proprietary systems, you cannot silence the panel until all events have been acknowledged.

To acknowledge an event:

1. Press the Acknowledge button.

Resetting the fire alarm system

WARNING: Death or serious injury. The protected premises may be occupied. Do not reset the fire alarm system until the proper authorities have determined that the threat of fire is no longer present.

Pressing the Reset button restores the fire alarm system to its normal state — *provided that all latched inputs have been restored*. If alarm signal initiating devices have not been restored, active alarm signals remain active and silenced alarm signals remain silenced.

Notes

- System programming may render the Reset button inoperable for up to three minutes following an alarm event.
- Resetting the system does not enable disabled points or restore outputs activated by a switch.

To reset the fire alarm system:

1. Press the Reset button.
2. If prompted, enter the access level password.

Performing a lamp test

Use the Lamp Test command on the Test Menu to verify the operation of the LCD and LED indicators. The lamp test command temporarily turns on the panel buzzer, all LED indicators, and every pixel on the LCD. The lamp test command only operates the indicators on the panel from which the command is initiated.

To perform a lamp test:

1. Access the Main Menu, click Test, and then click Lamp Test.

Activating alarm signals manually

The EST3X drill feature lets you activate alarm signals manually without putting the panel into alarm. When you activate a drill, all audible alarm signals turn on and, if configured, all visible alarm signals turn on, but other automatic fire alarm responses are not activated. The alarm signals remain active until the drill is canceled.

To activate a drill:

1. Access the Main Menu, click Activate, and then click Drill.
2. If prompted, enter the access level password.

To cancel a drill:

1. Press the Alarm Silence button.

— or —

Access the Main Menu, click Restore, and then click Drill.

Changing the LCD screen language

Use the Toggle Language command on the Program Menu to toggle the LCD screen text to a secondary language.

Note: The panel must be configured for a secondary language.

To change the LCD screen language:

1. Access the Main Menu, and then click Program.
2. Click Toggle Language.

Chapter 3

Advanced operating instructions

Summary

This chapter provides instructions for operating the advanced features of your EST3X life safety system. Advanced features alter system operation and require the access level 2 password or greater.

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Changing detector alarm sensitivity

Your fire alarm system can be programmed with two different alarm sensitivity settings. The alarm sensitivity setting determines how easily automatic fire detectors can sense a fire alarm condition. Typically, the primary alarm sensitivity setting is programmed for daytime operation and the alternate alarm sensitivity setting is programmed for nighttime and weekend operation.

To activate the alternate alarm sensitivity settings:

1. Access the Main Menu, and then click Activate.
2. Click Alt Sensitivity.
3. Enter the access level password.

To restore the primary alarm sensitivity settings:

1. Access the Main Menu, and then click Restore.
2. Click Primary Sensitivity.
3. Enter the access level password.

Changing event message routes

Your fire alarm system can be programmed with a primary message route and an alternate message route. The message route setting determines where event messages are displayed. Typically, the primary message route is programmed for daytime operation and the alternate message route is programmed for nighttime and weekend operation.

In most applications, a time control is used to automatically switch event messages over to their alternate route setting. When the time control is restored, event messages are automatically switched back to their primary route settings.

To activate alternate message routing:

1. Access the Main Menu, and then click Activate.
2. Click Alt Message Route.
3. Enter the access level password.

To restore primary message routing:

1. Access the Main Menu, and then click Restore.
2. Click Primary Msg Route.
3. Enter the access level password.

Disabling and enabling devices

Disabling a device prevents the EST3X control panel from processing status change signals from the device, or changing the output state of the device, until the device is enabled. For example, the EST3X control panel does not generate an alarm active event when you activate a disabled detector, but will do so after the detector is enabled.

The EST3X control panel keeps track of how many times you disable and enable a device. You must enable a device the same number of times you disable it in order to return the device to its initial condition.

Device addresses are listed in Appendix A “System addressing” on page 43.

Notes

- You cannot disable a device configured as a common alarm output.
- Disabling the device address for the dialer or a dialer account deletes all event messages sent to that account before they are transmitted. The dialer still transmits the account’s test-abnormal message and any message that was in the dialer queue before the account was disabled.
- Disabling all of the devices in a zone group automatically disables the zone group. Enabling any device in the zone group automatically enables the zone group.

To disable a device:

1. Access the Main Menu, and then click Disable.
2. Click Device, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

To enable a device:

1. Access the Main Menu, and then click Enable.
2. Click Device, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

Disabling and enabling zone groups

Disabling a zone group prevents the EST3X control panel from processing status change signals from every device in the zone group until the zone group is enabled. For example, the EST3X control panel does not generate an alarm active event when you activate a detector in a disabled zone group, but will do so after the zone group is enabled.

The EST3X control panel keeps track of how many times you disable and enable a zone group. You must enable a zone group the same number of times you disable it in order to return the zone group to its initial condition.

Notes

- The control panel tracks events from a disabled zone group but does not process them until the zone group is enabled.
- If you disabled the zone group by disabling all of the devices in the zone group, enabling the zone group enables all of the devices in the zone group.

To disable a zone group:

1. Access the Main Menu, and then click Disable.
2. Click Group, and then select Zone Group.
3. Scroll through the list and click the desired zone group.
4. Enter the access level password.

To enable a zone group:

1. Access the Main Menu, and then click Enable.
2. Click Group, and then select Zone Group.
3. Scroll through the list and click the desired zone group.
4. Enter the access level password.

Setting the system time and date

The EST3X control panel incorporates a system clock to time stamp events and to activate time controls. The time is presented in 24-hour format. The date is presented in month-day-year format.

To set the time:

1. Access the Main Menu, click Program, and then click Change Time.

2. Enter the access level password.
3. Enter the hour, minutes, and seconds (HHMMSS).

Examples:

000000 = midnight

010000 = 1:00 a.m.

120000 = noon

130000 = 1:00 p.m.

235900 = 11:59 p.m.

To set the date:

1. Access the Main Menu click Program, and then click Change Date.
2. Enter the access level password.
3. Enter the date (MMDDYYYY).

Using a TCP/IP connection to write to the panel

If your EST3X control panel is equipped with an Ethernet card, your service provider can use the TCP/IP connection to write (download) the project database to the panel instead of using an RS-232 connection. By default, this feature is “locked” to prevent someone from changing the project database without permission. You cannot write to the panel until it is “unlocked.”

Notes

- Activating and restoring the Remote Write Unlock command does not affect downloading the project database using an RS-232 connection.
- The Remote Write Unlock command times out after 15 minutes.
- This function should only be used by the installer or service provider. Changes to the fire alarm system must be tested and may require local authority approval.

To allow writing to the panel:

1. Access the Main Menu, and then click Activate.
2. Click Remote Write Unlock.
3. Click By Panel, and then enter the panel address (PP).

— or —

Click All Panels.

4. Enter the access level password.

To prevent writing to the panel:

1. Access the Main Menu, and then click Restore.
2. Click Remote Write Unlock.
3. Click By Panel, and then enter the panel address (PP).
— or —
Click All Panels.
4. Enter the access level password.

Using a TCP/IP connection to read from the panel

If your EST3X control panel is equipped with an Ethernet card, your service provider can use the TCP/IP connection to read status and diagnostic information from the panel instead of using an RS-232 connection. By default, this feature is “unlocked.” Locking this feature prevents you from reading from the panel until it is unlocked.

Notes

- The Remote Read Lock command *does not* automatically time out.
- Activating and restoring the Remote Read Lock command does not affect reading panel status and diagnostic information using an RS-232 connection.

To prevent reading from the panel:

1. Access the Main Menu, and then click Activate.
2. Click Remote Read Lock.
3. Click By Panel, and then enter the panel address (PP).
— or —
Click All Panels.
4. Enter the access level password.

To allow reading from the panel:

1. Access the Main Menu, and then click Restore.
2. Click Remote Read Lock.

3. Click By panel, and then enter the panel address (PP).
— or —
Click All Panels.
4. Enter the access level password.

Guard patrol routes

The guard patrol feature allows you to monitor the activities of security guards. Guards are required to walk any one of a number of predetermined routes called tours. During each tour, the guard must activate guard patrol stations that are strategically located along the route. Should a guard activate a station too early, too late, or out of sequence, an active guard patrol event message shows on the LCD screen. When a guard patrol alarm is generated, you must restore the guard patrol route to clear the alarm.

Activating a guard patrol route

Activating a guard patrol route starts the system's early, late, and out of sequence sensing mechanisms. If a station reports in early, late, or out of sequence, the guard patrol sensing mechanisms stop and the tour is ended.

To activate a guard patrol route:

1. Access the Main Menu, and then click Activate.
2. Click Guard Patrol Route, and then click the route to be activated.
3. Enter the access level password.

Note: A guard patrol route is activated automatically when you activate the first guard patrol station on the route.

Restoring a guard patrol

When a guard patrol tour ends because a guard patrol station was not activated at the proper time, you must restore the guard patrol group to which the station belonged.

To restore a guard patrol:

1. Access the Main Menu, and then click Restore.
2. Click Guard Patrol Route, and then click the route to be restored.
3. Enter the access level password.

Bypassing the photo element on SIGA2-PHS smoke detectors

If your fire alarm system is equipped with SIGA2-PHS combination photo-heat detectors, you can temporarily bypass the photo element and use only the heat element to detect a fire.

Notes

- The Sensor Bypass command works only with SIGA2-PHS detectors whose Primary Operation is set for "Photo is Supervisory | Heat is AlarmHeat."
- Bypassing the photo element activates a "Sensor Bypass Active" trouble event.
- If the photo element activates while it is bypassed, a "Disabled Active Event" is recorded in the event history.

To bypass the photo element on a SIGA2-PHS:

1. Access the Main Menu, and then click Activate.
2. Click Sensor Bypass, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

To unbypass the photo element on a SIGA2-PHS:

1. Access the Main Menu, and then click Restore.
2. Click Sensor Bypass, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

Testing a carbon monoxide (CO) detector

SIGA2 carbon monoxide (CO) detectors have an accelerated response mode that you can use when testing. In normal mode, SIGA2 CO detectors activate after carbon monoxide levels reach 400 ppm (parts per million) for 4 minutes. In

accelerated response mode, SIGA2 CO detectors activate within 4 to 8 seconds after reaching 400 ppm.

Notes

- The SIGA2 CO detector normal response rate mimics the normal absorption rate of CO in the bloodstream.
- If you do not restore the response mode, CO detection returns to its normal response time after 4 hours.

To change the CO rate of detection:

1. Access the Main Menu, and then click Activate.
2. Click Gas Accel Response, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

To restore the CO rate of detection:

1. Access the Main Menu, and then click Restore.
2. Click Gas Accel Response, and then enter the device address (PPCCDDDD).
3. Enter the access level password.

Chapter 4

Preventive maintenance and testing

Summary

This chapter provides instructions for maintaining and testing your EST3X life safety system.

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Introduction 38
Service provider information 38
Visual inspection schedule 38
 Routine maintenance schedule 40
Troubleshooting 41

Introduction

Periodic visual inspections and maintenance testing must be performed on your EST3X life safety system to ensure that it is operating correctly and as required by the local authority having jurisdiction (AHJ). Maintenance testing is performed by your service provider or a qualified technician with a complete understanding of the system hardware and functions.

Visual inspection and maintenance schedules are provided in this section, as well as a form to document your service provider's contact information.

Service provider information

Fill in the contact information of your service provider on the form below. If more than one service provider is assigned, use the additional form.

EST3X Service Provider	
Name	
Address	
City	
State	
Country	
Postal code	
Telephone	
E-mail	
Fax	

EST3X Service Provider	
Name	
Address	
City	
State	
Country	
Postal code	
Telephone	
E-mail	
Fax	

Visual inspection schedule

Perform visual inspections in accordance with Table 2 below or more often if required by the local AHJ.

Table 2: Visual inspection schedule

Component	Frequency	Recommended procedure
Radiant energy fire detectors (heat detectors)	Monthly	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance. Clean if necessary.
Supervisory signal devices	Monthly	Verify that the module's green LED flashes. Ensure that there are no changes that may adversely affect equipment performance.
Waterflow devices	Monthly	Verify that the module's green LED flashes. Ensure that there are no changes that may adversely affect equipment performance.
Batteries	Semiannually	Inspect batteries for corrosion or leakage. Verify that the battery connections are tight and secure. Clean the connections, if required. Replace batteries every 5 years, or sooner if conditions warrant.
Control unit trouble signals	Semiannually	Ensure that there are no changes that may adversely affect equipment performance.
Emergency voice/alarm communication equipment	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Remote annunciators	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Duct detectors	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Electromechanical releasing devices	Semiannually	Ensure that there are no changes that may adversely affect equipment performance.
Fire extinguishing systems or suppression systems	Semiannually	Ensure that there are no changes that may adversely affect equipment performance.
Fire alarm boxes	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Heat detectors	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance. Clean if necessary.

Component	Frequency	Recommended procedure
Smoke detectors	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance. Clean if necessary.
Guard tour equipment	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Interface equipment	Semiannually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Alarm notification appliances	Semiannually	Verify that the module's green LED flashes. Ensure that there are no changes that may adversely affect equipment performance.
Supervising station fire alarm system transmitters	Semiannually	Ensure that there are no changes that may adversely affect equipment performance.
Control unit	Annually	Inspect the equipment for any visible signs of damage or other changes that may adversely affect performance.
Fiber optic cable connections	Annually	Inspect the cables for any visible signs of damage, loose connections, or other changes that may adversely affect performance

Routine maintenance schedule

Routine maintenance and testing should be scheduled for your EST3X life safety system in accordance with Table 3 below or more often if required by the local AHJ.

Note: Only your system service provider or a qualified technician with a complete understanding of the system hardware and functions should perform system maintenance and tests.

Table 3: Routine maintenance schedule

Component	Frequency
Control equipment [1]	Quarterly / Annually
Supervisory signal devices (except valve tamper switches)	Quarterly
Off-premises transmission equipment	Quarterly
Waterflow devices	Semiannually
Valve tamper switches	Semiannually
Batteries [2]	Annually

Component	Frequency
Control unit trouble signals	Annually
Fiber optic cable connections	Annually
Emergency voice/alarm communication equipment	Annually
Remote annunciators	Annually
Smoke detectors	Annually
Heat detectors	Annually
Fire alarm boxes	Annually
Fire extinguishing systems or suppression systems	Annually
Guard tour equipment	Annually
Interface equipment	Annually
Audible notification appliances	Annually
Textual audible notification appliances (speakers)	Annually
Visible notification appliances	Annually
Supervising station fire alarm system transmitters	Annually

[1] Test control equipment quarterly when it is not connected to a supervising station.

[2] Replace batteries every five years, or sooner if conditions warrant.

Troubleshooting

Problems with your EST3X life safety system can generally be classified in two categories: application programming problems and hardware (including firmware) problems. Many times hardware problems are identified by the system itself. Application programming problems are typically suspected when an incorrect response happens, or when a response fails to happen or happens at the wrong time.

Only your system service provider or a qualified technician with a complete understanding of the system hardware and functions should perform system servicing and repairs. Refer to “Service provider information” on page 38 for their contact information. Refer to the *EST3X Technical Reference Manual* (P/N 3101888-EN) for detailed troubleshooting information.

Before contacting your service provider, make note of the following:

- Messages shown on the LCD screen
- Construction in the area that may have caused the problem
- Adverse weather that may have caused the problem
- Damage to any equipment

Appendix A

System addressing

Summary

This appendix provides an easy way to look up card and device addresses.

Content

Address formats	44
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Hardware layer device addresses	46
Operator layer device address	47
Remote annunciator device addresses	49

Address formats

EST3X addresses are in PPCCDDDD format, where:

- PP is the cabinet number. Possible values are: 01 (single panel systems) or 01 to 64 (networked systems).
- CC is the card's logical address. Possible values are listed in Table 4.
- DDDD is the device number. Possible values are listed in Table 5, Table 6, and Table 7.

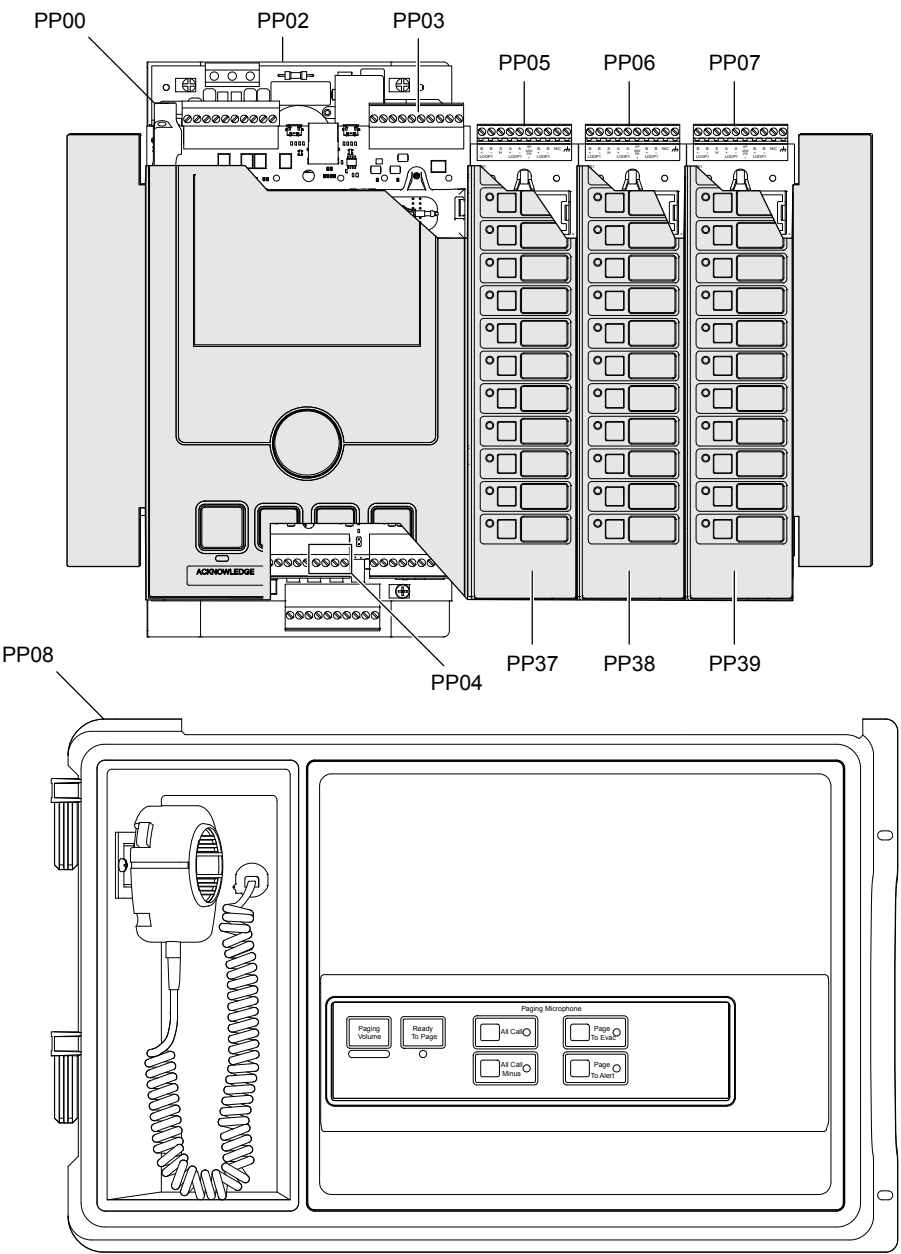
Card address

Cards have a physical address and a logical address. The physical address identifies the card's location in the panel. The logical address identifies the card in the CPU database. See Table 4 below and Figure 7 on page 45.

Table 4: EST3X card numbering

Card or circuit	Logical address
SFS1-CPU Main Board	00
4X-LCD User Interface	32
PS10-4B Power Supply	02
Signature loop controller on the SFS1-CPU Main Board	03
Remote annunciator interface on the SFS1-CPU Main Board	04
Option card installed in Card Slot 4	05
Option card installed in Card Slot 5	06
Option card installed in Card Slot 6	07
3X-PMI Paging Microphone Interface	08
Display module connected to the option card installed in Card Slot 4	37
Display module connected to the option card installed in Card Slot 5	38
Display module connected to the option card installed in Card Slot 6	39

Figure 7: Logical addresses for an EST3X control panel



Hardware layer device addresses

Table 5 below lists the device addresses for points on the EST3X hardware layer.

Table 5: EST3X hardware layer device addresses

Card	Device or circuit	Address
PS10-4B	NAC/AUX 1	PP020001
	NAC/AUX 2	PP020002
	NAC/AUX 3	PP020003
	NAC/AUX 4	PP020004
SFS1-CPU		
Loop Circuit 1	Detectors	PP030001 to PP030125
	Modules	PP030126 to PP030250
Loop Circuit 2	Detectors	PP030251 to PP030375
	Modules	PP030376 to PP030500
3-IDC8/4	IDC/NAC 1	PPCC0001
	IDC/NAC 2	PPCC0002
	IDC 3	PPCC0003
	IDC 4	PPCC0004
	IDC/NAC 5	PPCC0005
	IDC/NAC 6	PPCC0006
	IDC 7	PPCC0007
	IDC 8	PPCC0008
3-SSDC1	Detectors	PPCC0001 to PPCC0125
	Modules	PPCC0126 to PPCC0250
3-SDDC1		
Loop Circuit 1	Detectors	PPCC0001 to PPCC0125
	Modules	PPCC0126 to PPCC0250
Loop Circuit 2	Detectors	PPCC0251 to PPCC0375
	Modules	PPCC0376 to PPCC0500
3-AADC1	Detectors	PPCC0001 to PPCC0099
	Modules	PPCC0101 to PPCC0199
3-ZA20(A/B)	Amplifier output	PPCC0000
	NAC output	PPCC0001
3-ZA40(A/B)	Amplifier output	PPCC0000
	NAC output	PPCC0001
3X-PMI	Default_Normal_PP_08	PP080001
	Default_Alert_PP_08	PP080002
	Default_Evac_PP_08	PP080003
	Default_Pre_PP_08	PP080004
	MSG_005 to MSG_255	PP080005 to PP080255

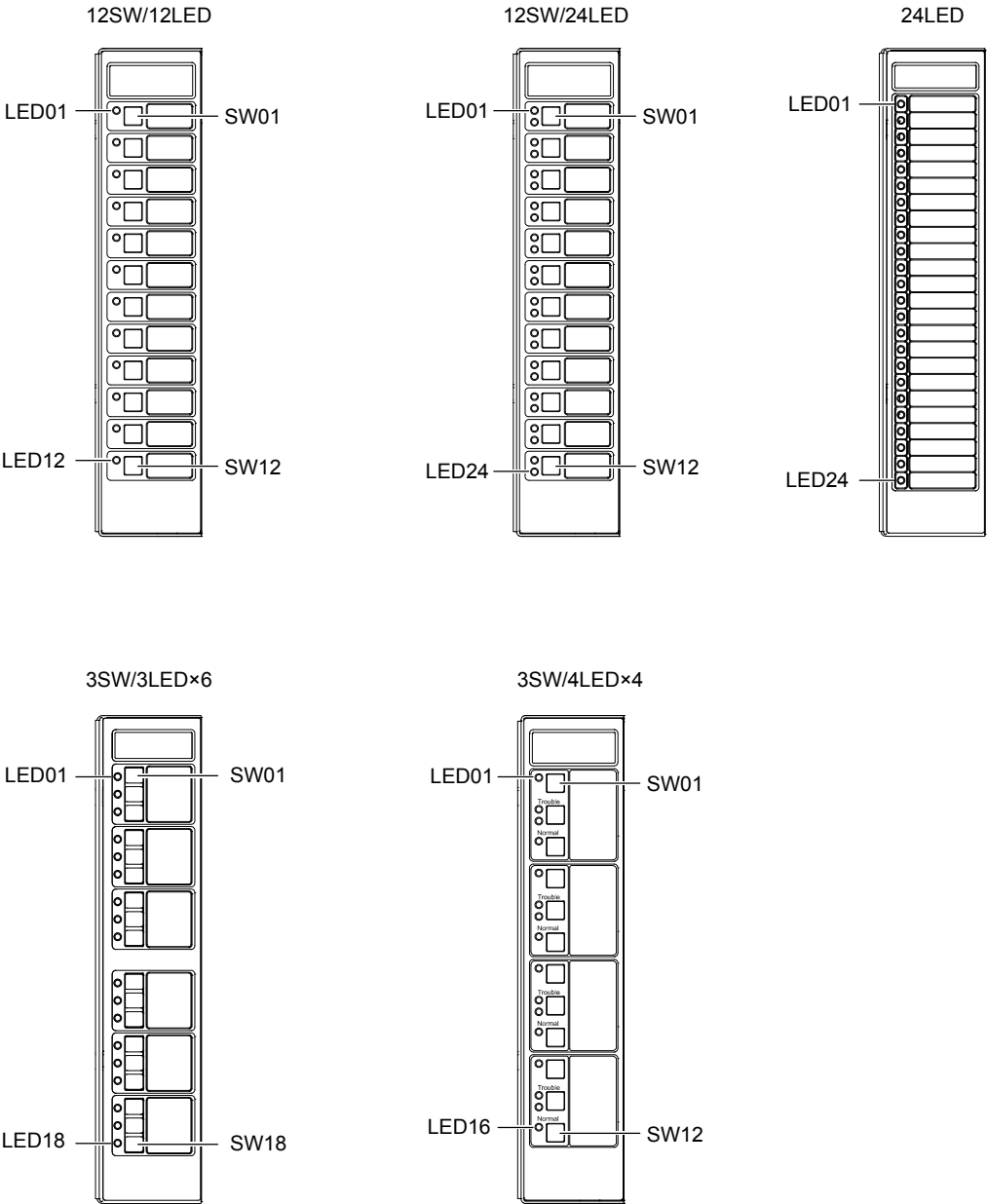
Operator layer device address

Table 6 below lists the device addresses for points on the EST3X operator layer. See also Figure 8 on page 48.

Table 6: EST3X operator layer device addresses

Module type	LED or switch	Address
12SW/12LED	SW01 to SW12 LED01 to LED12	PPCC0001 to PPCC0012 PPCC0129 to PPCC0140
12SW/24LED	SW01 to SW12 LED01 to LED24	PPCC0001 to PPCC0012 PPCC0129 to PPCC0152
24LED	LED01 to LED24	PPCC0129 to PPCC0152
3SW/3LED×6	SW01 to SW18 LEDs	PPCC0001 to PPCC0018 PPCC0129 to PPCC0146
3SW/4LED×4	SW01 to SW12 LED01 LED02 LED03 LED04 LED05 LED06 LED07 LED08 LED09 LED10 LED11 LED12 LED13 LED14 LED15 LED16	PPCC0001 to PPCC0012 PPCC0129 PPCC0131 PPCC0132 PPCC0133 PPCC0135 PPCC0137 PPCC0138 PPCC0139 PPCC0141 PPCC0143 PPCC0144 PPCC0145 PPCC0147 PPCC0149 PPCC0150 PPCC0151

Figure 8: Operator layer LED and switch numbering



Remote annunciator device addresses

Table 7 on page 52 lists the device addresses for LEDs and switches on RLED-C remote annunciators, RLED24 expanders, GCI graphic annunciator cards, and GCIX expander cards. See also Figure 9, Figure 10, and Figure 11.

Figure 9: RLED-C LED numbering

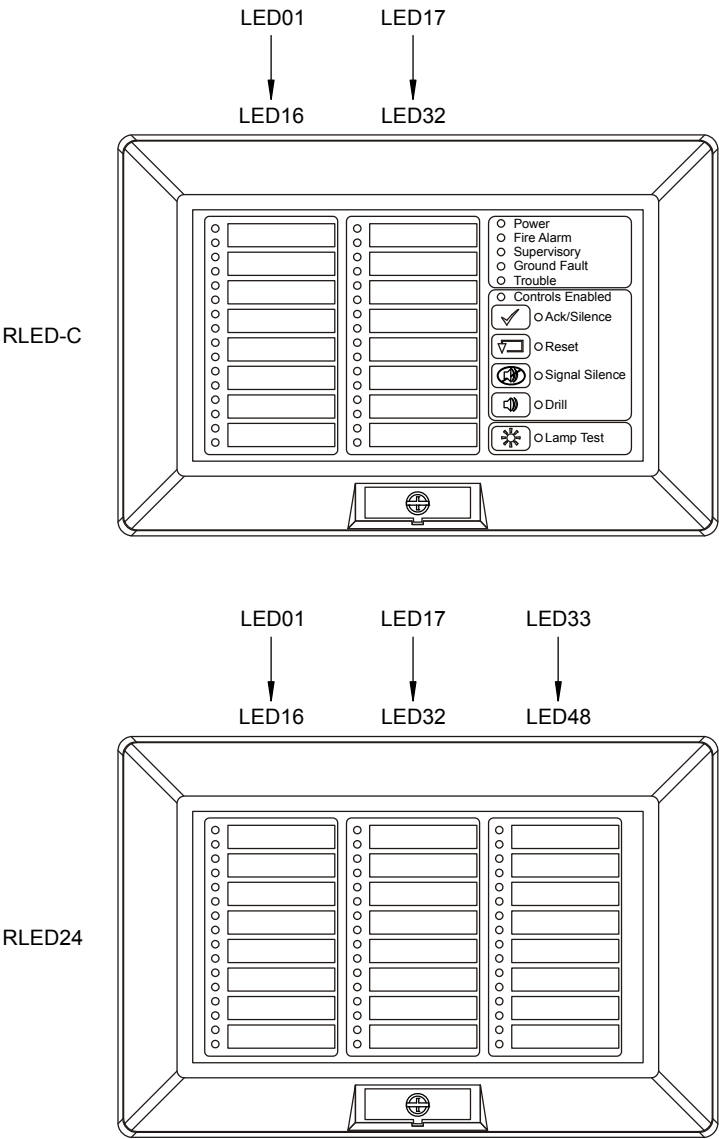


Figure 10: GCI card LED and switch numbering

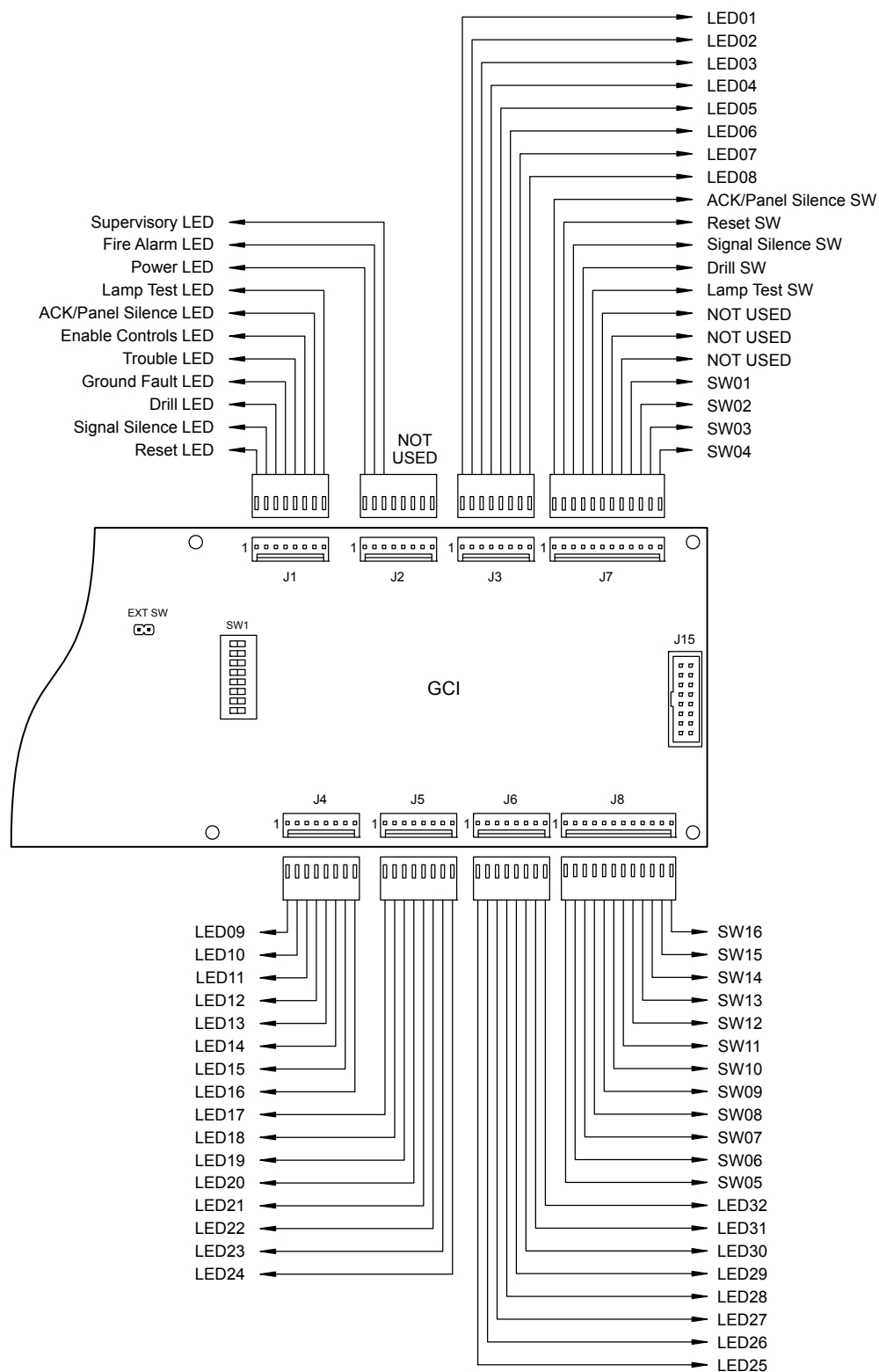


Figure 11: GCIX card LED and switch numbering

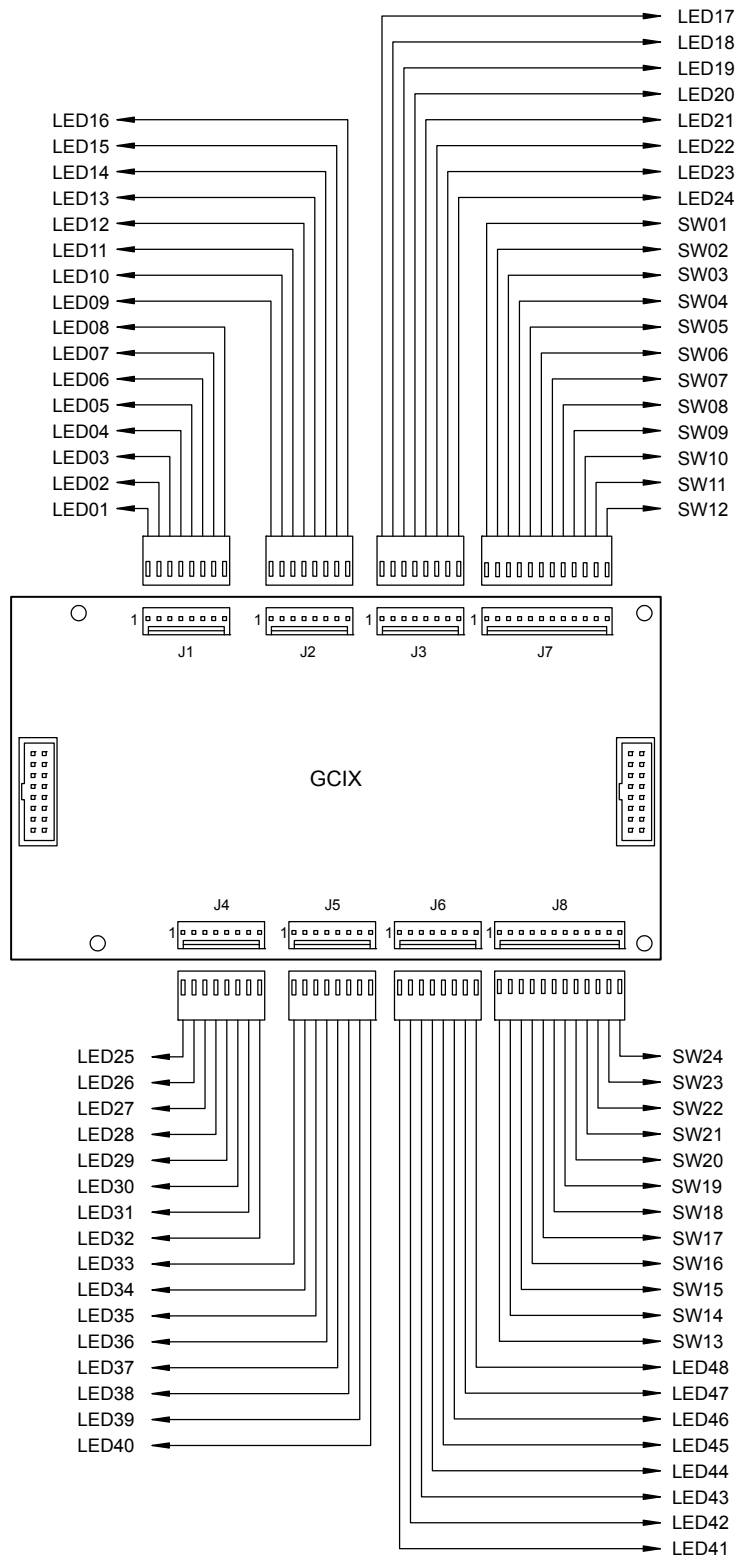


Table 7: Remote annunciator device addresses

No.	Annunciator	LED or switch	Address
1	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP040201 to PP040232 PP020249 to PP040264
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP040301 to PP040348 PP040349 to PP040372
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP040401 to PP040448 PP040449 to PP040472
2	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP040501 to PP040532 PP020549 to PP040564
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP040601 to PP040648 PP040649 to PP040672
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP040701 to PP040748 PP040749 to PP040772
3	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP040801 to PP040832 PP020849 to PP040864
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP040901 to PP040948 PP040949 to PP040972
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041001 to PP041048 PP041049 to PP041072
4	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP041101 to PP041132 PP021149 to PP041164
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041201 to PP041248 PP041249 to PP041272
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041301 to PP041348 PP041349 to PP041372
5	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP041401 to PP041432 PP021449 to PP041464
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041501 to PP041548 PP041549 to PP041572
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041601 to PP041648 PP041649 to PP041672
6	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP041701 to PP041732 PP021749 to PP041764
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041801 to PP041848 PP041849 to PP041872
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP041901 to PP041948 PP041949 to PP041972
7	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP042001 to PP042032 PP022049 to PP042064
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042101 to PP042148 PP042149 to PP042172

No.	Annunciator	LED or switch	Address
8	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042201 to PP042248 PP042249 to PP042272
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP042301 to PP042332 PP022349 to PP042364
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042401 to PP042448 PP042449 to PP042472
9	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042501 to PP042548 PP042549 to PP042572
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP042601 to PP042632 PP022649 to PP042664
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042701 to PP042748 PP042749 to PP042772
10	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP042801 to PP042848 PP042849 to PP042872
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP042901 to PP042932 PP022949 to PP042964
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043001 to PP043048 PP043049 to PP043072
11	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043101 to PP043148 PP043149 to PP043172
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP043201 to PP043232 PP043249 to PP043264
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043301 to PP043348 PP043349 to PP043372
12	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043401 to PP043448 PP043449 to PP043472
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP043501 to PP043532 PP043549 to PP043564
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043601 to PP043648 PP043649 to PP043672
13	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043701 to PP043748 PP043749 to PP043772
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP043801 to PP043832 PP043849 to PP043864
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP043901 to PP043948 PP043949 to PP043972
14	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044001 to PP044048 PP044049 to PP044072
	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP044101 to PP044132 PP044149 to PP044164

No.	Annunciator	LED or switch	Address
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044201 to PP044248 PP044249 to PP044272
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044301 to PP044348 PP044349 to PP044372
15	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP044401 to PP044432 PP044449 to PP044464
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044501 to PP044548 PP044549 to PP044572
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044601 to PP044648 PP044649 to PP044672
16	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP044701 to PP044732 PP044749 to PP044764
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044801 to PP044848 PP044849 to PP044872
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP044901 to PP044948 PP044949 to PP044972
17	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP045001 to PP045032 PP045049 to PP045064
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045101 to PP045148 PP045149 to PP045172
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045201 to PP045248 PP045249 to PP045272
18	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP045301 to PP045332 PP045349 to PP045364
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045401 to PP045448 PP045449 to PP045472
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045501 to PP045548 PP045549 to PP045572
19	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP045601 to PP045632 PP045649 to PP045664
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045701 to PP045748 PP045749 to PP045772
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP045801 to PP045848 PP045849 to PP045872
20	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP045901 to PP045932 PP045949 to PP045964
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046001 to PP046048 PP046049 to PP046072
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046101 to PP046148 PP046149 to PP046172

No.	Annunciator	LED or switch	Address
21	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP046201 to PP046232 PP046249 to PP046264
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046301 to PP046348 PP046349 to PP046372
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046401 to PP046448 PP046449 to PP046472
22	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP046501 to PP046532 PP046549 to PP046564
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046601 to PP046648 PP046649 to PP046672
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046701 to PP046748 PP046749 to PP046772
23	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP046801 to PP046832 PP046849 to PP046864
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP046901 to PP046948 PP046949 to PP046972
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047001 to PP047048 PP047049 to PP047072
24	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP047101 to PP047132 PP047149 to PP047164
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047201 to PP047248 PP047249 to PP047272
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047301 to PP047348 PP047349 to PP047372
25	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP047401 to PP047432 PP047449 to PP047464
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047501 to PP047548 PP047549 to PP047572
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047601 to PP047648 PP047649 to PP047672
26	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP047701 to PP047732 PP047749 to PP047764
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047801 to PP047848 PP047849 to PP047872
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP047901 to PP047948 PP047949 to PP047972
27	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP048001 to PP048032 PP048049 to PP048064
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048101 to PP048148 PP048149 to PP048172

No.	Annunciator	LED or switch	Address
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048201 to PP048248 PP048249 to PP048272
28	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP048301 to PP048332 PP048349 to PP048364
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048401 to PP048448 PP048449 to PP048472
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048501 to PP048548 PP048549 to PP048572
29	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP048601 to PP048632 PP048649 to PP048664
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048701 to PP048748 PP048749 to PP048772
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP048801 to PP048848 PP048849 to PP048872
30	RLED-C or GCI GCI	LED01 to LED32 SW01 to SW16	PP048901 to PP048932 PP048949 to PP048964
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP049001 to PP049048 PP049049 to PP049072
	RLED24 or GCIX GCIX	LED01 to LED48 SW01 to SW24	PP049101 to PP049148 PP049149 to PP049172

Glossary

Term	Definition
activate	To turn on or energize. Pertains to outputs (including logical outputs).
alarm	The state of a fire alarm initiating device that has detected a smoke or fire condition. The state of a security device that has been triggered.
AHJ	Authority having jurisdiction.
Alphanumeric LCD	Backlit liquid crystal display, 240 × 320 pixels, 24 lines of 40 characters. The LCD provides supplemental information relevant to the current condition of the control panel.
card	Modules that connect to the electronics chassis and control-display modules.
device	Modules, circuits, buttons, or LEDs that exist on the electronics chassis and all addressable devices connected by field wiring.
disable	Prevents an input, output, or system feature from functioning.
enable	Permits an input, output, or system feature to function.
group	A collection of Signature devices that is treated as a single entity for programming purposes. Groups can have messages and responses over and above the messages and responses of the individual group members.
input	A signal generated by a field device and sent to the control panel for evaluation and responses as determined by the system database. Inputs to the system are detectors, modules, and switches.
Normal state	The system is in a quiet state. The LCD screen shows no event messages.
Off-normal state	The system enters the fire alarm, trouble, disabled, or test state. The LCD screen shows event messages and system LEDs indicate off-normal statuses.
output	A signal generated by the system, based upon responses defined in the system database, and sent to external field devices. Outputs are LEDs, and modules.

pseudo point	An input or output point that is not a physical device. For example, ground fault and communication fault notifications.
reset	Refers to a condition of an input, where the input is not active. It also refers to the condition of an output where the output is not in its SET or RESET condition and does not have a priority value associated with it.
rotary controller	A multifunctional control dial that performs the functions of a computer keyboard and the Enter key. The controller is used to scroll through and select events, menus, and commands and to enter addresses.
RS-232	A serial communications format normally used for serial peripheral devices (i.e., printers) from a computer.
SDU	System Definition Utility. A Windows-based program used to enter and modify information contained in the system.

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