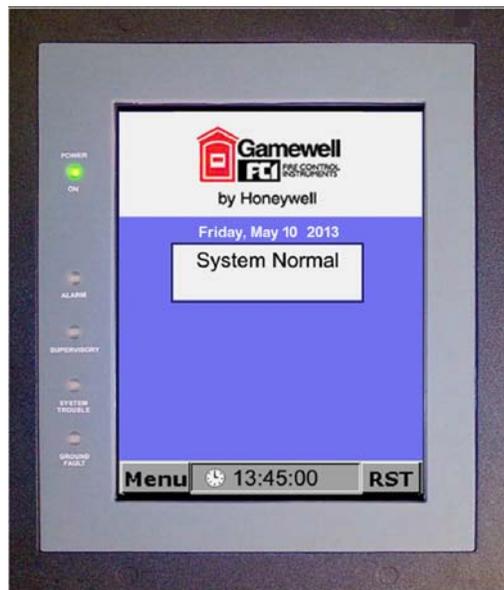




by Honeywell



Network Graphic Annunciator (NGA) Operations Guide

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B1

Fire Alarm & Emergency Communication System Limitations

While a life safety system may lower insurance rates, it is not a substitute for life and property insurance!

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

An emergency communication system—typically made up of an automatic fire alarm system (as described above) and a life safety communication system that may include an autonomous control unit (ACU), local operating console (LOC), voice communication, and other various interoperable communication methods—can broadcast a mass notification message. Such a system, however, does not assure protection against property damage or loss of life resulting from a fire or life safety event.

The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premises following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA 72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. This document can be found at <http://www.systemsensor.com/appguides/>. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35% of all fires. While fire alarm systems are designed to provide early warning against fire, they do not guarantee warning or protection against fire. A fire alarm system may not provide timely or adequate warning, or simply may not function, for a variety of reasons:

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors. Smoke detectors also may not sense a fire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire.

Particles of combustion or “smoke” from a developing fire may not reach the sensing chambers of smoke detectors because:

- Barriers such as closed or partially closed doors, walls, chimneys, even wet or humid areas may inhibit particle or smoke flow.
- Smoke particles may become “cold,” stratify, and not reach the ceiling or upper walls where detectors are located.
- Smoke particles may be blown away from detectors by air outlets, such as air conditioning vents.
- Smoke particles may be drawn into air returns before reaching the detector.

The amount of “smoke” present may be insufficient to alarm smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm.

Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast-flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, neither type

of detector is necessarily best and a given type of detector may not provide adequate warning of a fire.

Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable materials, etc.).

Heat detectors do not sense particles of combustion and alarm only when heat on their sensors increases at a predetermined rate or reaches a predetermined level. Rate-of-rise heat detectors may be subject to reduced sensitivity over time. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection specialist. Heat detectors are designed to protect property, not life.

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

Audible warning devices such as bells, horns, strobes, speakers and displays may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol, or medication. Please note that:

- An emergency communication system may take priority over a fire alarm system in the event of a life safety emergency.
- Voice messaging systems must be designed to meet intelligibility requirements as defined by NFPA, local codes, and Authorities Having Jurisdiction (AHJ).
- Language and instructional requirements must be clearly disseminated on any local displays.
- Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy.
- Studies have shown that certain people, even when they hear a fire alarm signal, do not respond to or comprehend the meaning of the signal. Audible devices, such as horns and bells, can have different tonal patterns and frequencies. It is the property owner's responsibility to conduct fire drills and other training exercises to make people aware of fire alarm signals and instruct them on the proper reaction to alarm signals.
- In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

A life safety system will not operate without any electrical power. If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly.

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

Telephone lines needed to transmit alarm signals from a premises to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup radio transmission systems are recommended.

The most common cause of life safety system malfunction is inadequate maintenance. To keep the entire life safety system

Installation Precautions

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

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

CAUTION - System Re-acceptance Test after Software Changes: To ensure proper system operation, this product must be tested in accordance with NFPA 72 after any programming operation or change in site-specific software. Re-acceptance testing is required after any change, addition or deletion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software functions known to be affected by a change must be 100% tested. In addition, to ensure that other operations are not inadvertently affected, at least 10% of initiating devices that are not directly affected by the change, up to a maximum of 50 devices, must also be tested and proper system operation verified.

This system meets NFPA requirements for operation at 0-49° C/32-120° F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15-27° C/60-80° F.

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

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

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

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

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

This system contains static-sensitive components.

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

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

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FCC Warning

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for class A computing devices pursuant to Subpart B of Part 15 of FCC Rules, which is designed to provide reasonable protection against such interference when devices are operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user will be required to correct the interference at his or her own expense.

Canadian Requirements

This digital apparatus does not exceed the Class A limits for radiation noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emmet pas de bruits radioelectriques dépassant les limites applicables aux appareils numeriques de la classe A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

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Section 1: Introduction

The purpose of this document is to act as a guide for use of the Network Graphic Annunciator (NGA) in NetSOLO[®] and E3 Series[®] Systems. It will explain step-by-step procedures on how to perform the various functions available from the NGA and how to interpret the information shown on the display.



WARNING:

These functions may be performed only by authorized personnel.



NOTE: The screen images shown throughout this document are simulated. Actual NGA displays may vary slightly.

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Section 2: The LCD Touch Screen

The LCD Touch Screen is the primary interface with the NGA. It displays messages that identify the sources of alarms, off-normal indications and trouble conditions as these messages occur within the system. The LCD Touch screen also provides access to other NGA functions as described in this document.

When the system is in normal condition, the "System Normal" banner appears. Below the "System Normal" banner is a nineteen (19), character System ID Label that may be assigned to the NGA via the CAMWorks programming software. The System ID Label is used in the displays and printouts of the System Event Log and identifies events that originated from the NGA.

The Time and Date fields continuously display the system's real-time clock that appears in a 24-hour format, which is used to stamp events with the time and date of their occurrence. This clock can be set by the NGA, and is described in Section 9, "Clock Screen".

2.1 Menu Bar

The Menu Bar appears at the bottom left corner of the screen and is always displayed. It provides access to the functions listed in Table 2.1.1. Figure 2.1.1 illustrates the NGA Normal Condition screen.



Figure 2.1.1 NGA Normal Condition Screen

Table 2.1.1 describes the selections that appear on the Menu Bar of the NGA Normal Condition screen.

Menu Bar	Description
Menu	Use the Menu button to open the NGA's Main Menu.
System Clock	Use the Clock display to adjust the system's date and time.
RST	Use the RST button to reset the NGA and the other nodes in the same region as the NGA. RST can be optionally configured to reset the entire system via NGA menus or the CAMWorks programming software.

Table 2.1.1 Menu Bar

2.2 The Display

The NGA LCD Graphic Annunciator is a software programmable touch screen interface used for the Gamewell-FCI Emergency Voice Evacuation Systems. It displays text messages of system events, together with system status indicating LEDs, and touch screen switches for the following conditions:

- MNS Alarm
- MNS Trouble
- MNS Supervisory
- FIRE Reset
- MNS Reset
- Fire Alarm
- Fire Trouble
- Fire Supervisory
- Alarm Acknowledge
- Signal Silence
- Text Message
- Menu
- Scroll Up
- Scroll Down

The display can be configured to indicate, “ACU in Control” or “LOC in Control” as required for combination Fire and MNS Systems. The background display can be programmed to be labeled as, “Command Center in Control” if required. The NGA mounts in the E3 Series® enclosure or it may be installed in a remote location. It occupies one (1), node on the Broadband network.

Displaying System Status

During Trouble, Off-Normal and Alarm Conditions, the Display will identify the change in the system status. The following information will be displayed:

- The type of event and the number of active events by type.
- The date and time of the event.
- The number of active events (represented below the following tabs):
 - FIRE – ALARM – TRBL – SUPV – MSG
 - MNS – ALARM – TRBL – SUPV – MSG
- The number of active User-Defined Text Messages that appear beside the FIRE or MNS tab. (See 2.5, "User Defined Text Message Options" for more information.)
- The address of the node that originated the event.
- The System ID Label of the node that originated the event (if programmed).
- The type of device that caused the event.
- The address of the device that caused the event.
- The Device ID Label of the device that caused the event (if programmed).

In this condition, the screen will appear similar to the screen that appears in Figure 2.2.1.



NOTE 1: If a Releasing Output is activated, the term, “RELEASE” appears in the upper right corner of the NGA.



NOTE 2: If a “CO Alarm” occurs, the term, “CO ALARM” appears in the title bar.



NOTE 3: NGA Screen - Title Bar:

In the NGA Screen - Title Bar, the “ACU In Control”, “LOC In Control” or “System Status” displays based on the current System status. If the Mass Notification event is activated in the System, either “ACU In Control” or “LOC In Control” displays in the Title Bar. Otherwise, “System Status” appears in the Title Bar.



Figure 2.2.1 System Event Screen

2.3 NGA Touch Screen Tabs and Buttons

The NGA LCD Graphic Annunciator is a software programmable touch screen interface used to control the E3 Series Voice Evacuation System. The touch screen tabs and buttons are software programmable and are used to control the combined in-building Fire/Mass Notification System. Access to these keys may be optionally protected via a password. The NGA will display buttons that are relevant to current system conditions. If a button becomes unavailable, for example by acknowledging all system events, it appears disabled.

When a user selects a tab, the Event labeled on the tab is activated and the Event information appears on the Display screen. The tabs at the top of the screen are used to filter the Event displays to show only Alarm, Trouble, Supervisory Off-Normal and Messages conditions. These tabs indicate the number of currently Active Events by type. The MSG tab displays any available User-Defined Text Messages that have been programmed into the NGA via the CAMWorks programming software. Table 2.3.1 lists the NGA Event Touch Screen Tabs and Buttons, description and activation.



NOTE: When the user touches the Active tab, all active Events (with the highest priority), appear on the NGA Display Screen.

Event	Tab	Description	Activation
Fire Event Row			
Fire Alarm Event		Designates that the tabs in this row are Fire Events.	N/A. This is an indicator only.
Fire Alarm Touch Screen Tabs			
Fire Alarm		Signals a Fire/CO alarm event. The tab background color is red.	If this tab is activated, the Display Screen border appears red.
Fire Trouble		Signals a trouble in the fire alarm system. The tab background color is amber.	If this tab is activated, the Display Screen border appears amber.
Fire Supervisory		Signals an OFF-NORMAL condition. The tab background color is blue.	If this tab is activated, the Display Screen border appears blue.
Text Message		Displays user-defined messages. The tab background color is green. For information on TRANSFER OF CONTROL, see Note 1.	If this tab is activated, the tab background color (green) appears on the Display Screen border.
MNS Event Row			
Mass Notification Event		Designates that the tabs in this row are MNS Events.	N/A. This is an indicator only.
Mass Notification Alarm (See Note 2)		Broadcasts a Mass Notification Alarm. The tab background color is magenta.	If this tab is activated, the Display Screen border appears magenta.
Mass Notification Trouble		Broadcasts a trouble in the Mass Notification System. The tab background color is tan.	If this tab is activated, the Display Screen border appears tan.
Mass Notification Supervisory		Signals an OFF-NORMAL condition. The tab background color is light blue.	If this tab is activated, the Display Screen border appears light blue.

Table 2.3.1 NGA Touch Screen Tabs and Buttons

Event	Tab	Description	Activation
Mass Notification Touch Screen Tabs			
Text Message		Displays user-defined messages. The tab background color is light green. For information on TRANSFER OF CONTROL, see Note 1.	If this tab is activated, the tab background color (light green) appears on the Display Screen border.
Display Screen		Displays the event, time (hour/minutes/seconds), date, (month/day/year), Node Number, System, and Warning.	The Display Screen border color represents the tab background color of the Event that is activated.
NGA Touch Screen Buttons			
Event	Button	Description	
Acknowledge		Press this button to acknowledge the Event.	
Silence		Press this button to silence the system outputs.	
Menu		Press this button to access the Menu.	
Up/Down Arrows		Press these buttons to browse the active events on the screen.	
Reset		Press this button to reset the system.	
Reset Screen		Displays both the Fire and MNS Reset buttons. When both Fire/MNS Active Alarm Events appear on the Fire/MNS tabs, the Fire button blinks red and the MNS button blinks blue.	
<p>NOTE 1: TRANSFER OF CONTROL: If the Autonomous Control Unit (ACU) transfers control to the Local Operating Console (LOC), a text message appears on the Display screen.</p>			
<p>NOTE 2:The MNS Alarms light the Alarm LED and sound the buzzer in the normal alarm (march-time) pattern.</p>			

Table 2.3.1 NGA Touch Screen Tabs and Buttons (Continued)

2.3.1 Mass Notification Display Screens

Figure 2.3.1.1 shows the Display screen with the ACU-In-Control and Figure 2.3.1.2 shows the Display screen with the LOC-In-Control.

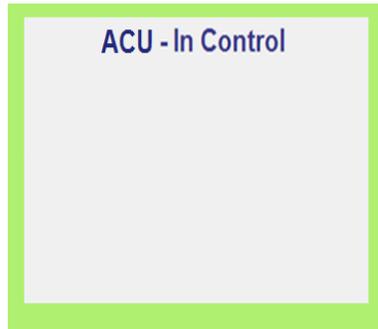


Figure 2.3.1.1 ACU-In-Control

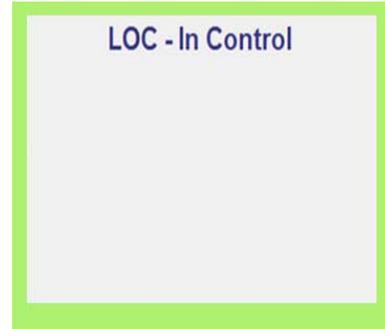


Figure 2.3.1.2 LOC-In-Control

2.4 User-Defined "CAM Text" Messages

The NGA supports up to 512 User-Defined CAM Text Messages that may be triggered according to user programming. When one of these text messages are active, the "FIRE or MNS MSG" tab appears active on the "System Status" screen.



NOTE: The term, CAM, is the acronym for Conditional Action Map. CAM refers to the Boolean logic equation that, when true, causes an output resource or device to respond to a given set of input conditions that the equation defines. If the logic expression is true, the device resource activates. If the logic expression is false, the device or resource deactivates.

If a Trouble, Supervisory Off-normal, CO/Gas, Fire Alarm or MNS Alarm condition occurs while the User-Defined Text Message displays on the screen, the NGA display automatically changes to display which is the highest-priority event on the system.

Likewise, if a User-Defined Text Message is triggered while a Trouble, Supervisory Off-normal or Alarm condition is present, a number appears inside the "TEXT MSG" tab. This number indicates the number of User-Defined Text Messages that are active.

Unlike Trouble, Supervisory Off-normal or Alarm conditions, activation of User-Defined Text Messages does not do the following:

- normally sound the NGA's buzzer
- illuminate any of the NGA's front-panel LED indicators

However, the text message may be optionally configured to cause the NGA to issue a System Event when displayed. In this case, the System Trouble LED and Buzzer will activate and the system will initiate any other actions that are configured to occur due to that Event.

Figure 2.4.1 illustrates the screen that appears when the TEXT MSG tab is active from the System Status screen.



NOTE: User-Defined "CAM Text" messages may be optionally configured to cause the NGA to issue a System Event when the System Trouble is displayed. If the system is configured to display user-defined "CAM Text" messages, the "FIRE or MNS MSG" tab is activated and displays the associated trouble condition.



Figure 2.4.1 System Event Screen Showing Active User-Defined "CAM Text" Message

2.5 User Defined Text Message Options

Table 2.5.1 describes the tabs and buttons that appear on the User-Defined Text Message tab screen. The following options are available when User-Defined Text Messages are displayed.

System Event Button	Description
UP / DOWN	Use the up and down arrows to scroll through all active text messages.
FIRE ALARM / FIRE TRBL / FIRE SUPV / TEXT MSG / MNS ALARM / MNS TRB	The tabs at the top of the screen are used to filter the event displays to show only the FIRE ALARM / FIRE TRBL / FIRE SUPV / TEXT MSG / MNS ALARM / MNS TRB, Supervisory Off-Normal conditions as well as user-defined "CAM Text" messages. If a number appears below a tab, it indicates the number of currently active events identified by type.
NOTE: Both Fire and CO/Gas Alarm events appear displayed below the FIRE ALRM tab.	

Table 2.5.1 User-Defined Text Message Tabs and Buttons

Section 3: LEDs and Audible Sounder

The NGA has the following five (5), front-panel LEDs and an audible sounder to provide visual and audible indications of alarm, off-normal and trouble conditions.

- Power on
- Alarm
- Supervisory
- System Trouble
- Ground Fault

The LEDs and audible sounder operation are described in the following sections:

3.1 Power On LED

The "POWER ON" LED lights when the system is operating on AC.

3.2 Alarm LED (Fire Alarm Events Only)

The "ALARM" LED blinks on/off and the sounder sounds an on/off pattern when the system is in an alarm condition. The "ACK" button that appears on the display will acknowledge the alarm condition that is currently displayed. Once all alarm conditions are acknowledged, the "ACK" button will become disabled, the sounder will be silenced, and the "ALARM" LED will stay on steady. The LED will extinguish when the system is restored to normal.

3.3 CO/Gas Alarm Operation

When a Carbon Monoxide (CO) Alarm event occurs, a text message labeled, "CO ALARM" appears on the top right corner of the display panel. Figure 3.3.1 illustrates the NGA screen with the "CO ALARM" Event displayed.

CO Alarm Event

If the CO Alarm is the highest priority event, the following occurs:

- The Main window displays the following:
 - Device that originated the event
 - Time Stamp
 - Descriptor
- The piezo buzzer sounds a coded-4 pattern.
- When an active CO Alarm condition exists, the "CO Alarm" text that appears at the top of the screen flashes.

After all CO alarms are acknowledged on the E3 Series control panel, the coded-4 pattern stops. The system reports the CO Alarm to the network with all of the display nodes reporting, "CO ALARM."

In response to the CO Alarm text, the LED indicator on the CO Alarm device appears lit solid green. If both a CO and fire alarm occur on the same device, the LED toggles between a green signal, indicating a CO Alarm and a red signal indicating a fire alarm. This feature shows that both events originated from the same device. The CO Alarm remains in alarm until you reset the E3 Series control panel.

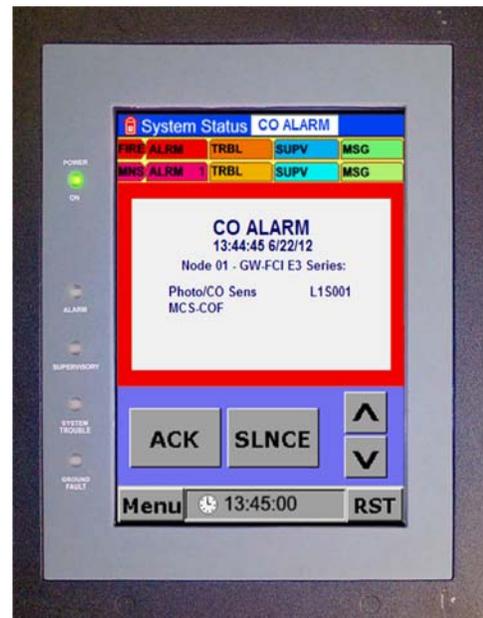


Figure 3.3.1 NGA Screen with CO ALARM Event Display

3.3.1.1 CO Alarm Persistent Text Indicators

While the system displays the current event, Table 3.3.1.1.1 lists the following text indicators that show the following types of events that occurred.

Indicator	Event
CO ALARM	Indicates that a CO Alarm occurred in the region to which the NGA belongs. If Global Reporting is enabled, the CO Alarm indicates any other areas in the system.
RELEASE	Indicates that a Releasing Event occurred in the region to which the NGA belongs.
CO ALARM/ RELEASE	Indicates that a CO Alarm occurred in the region to which the NGA belongs. If Global Reporting is enabled, the CO Alarm indicates any other areas in the system. This text indicator also shows that a Releasing Event occurred in the region to which the NGA belongs.

Table 3.3.1.1.1 CO Alarm Persistent Text Indicators



NOTE: For additional information on the CO Alarm, refer to the following documents:

- *NGA Installation Instructions (P/N: 9000-0568)*
- *LCD-E3 Installation Instructions (P/N: 9000-0582)*
- *E3 Series and 7100 Series Control Panels SLC Wiring Manual, (P/N: 50106645-001)*

For information on the programming of the CO Alarm, refer to the CAMWorks Online Help.

3.4 Mass Notification (MNS) Alarm Operation

Figure 3.4.1 illustrates the NGA Display Panel with the MNS Alarm activated.

If the MNS Alarm is the highest priority event, the following occurs:

The Main window displays the following:

- Device that originated the event
- Time Stamp
- Descriptor

The piezo buzzer sounds a march time audible pattern and the Alarm LED blinks.

After all MNS alarms are acknowledged on the E3 Series control panel, the march time pattern stops. The system reports the MNS Alarm to the network with all of the display nodes reporting, "MNS ALARM," and the Alarm LED goes on steady.

In response to the MNS Alarm, the Alarm LED indicator on the initiating device appears a solid red. The device remains in alarm until you reset the E3 Series control panel.



Figure 3.4.1 NGA Screen with MNS ALARM Event Displayed



NOTE: For additional information on the MNS alarm, refer to the following documents:

- *NGA Installation Instructions P/N: 9000-0568*
- *E3 Series Expandable Emergency Evacuation System Installation/Operation Manual, P/N: 9000-0574*

For information on the programming of the MNS Alarm, refer to the CAMWorks Online Help.

3.4.1 Active Event Operation

If there is an Active Event in the Fire or MNS System, depending on the type of Event, the Event tab becomes activated. When the user touches the Active tab, the Active Event information (with the highest priority) appears on the NGA Display screen. The number of Active Events display to the right of the Active tab in the Active Event row.

For example, if a 2 appears next to the **TRBL** tab in the MNS row, it indicates there are two (2), MNS Trouble Events. (To view an example of the number of events labeled on the Active tab, see Figure 3.4.1). To resolve and clear the MNS Trouble Events, do the following:

1. Enter the required Password (if prompted) to "Unlock" and access the system controls.
2. Press the **TRBL** tab in the MNS Row.
3. The Trouble Event message appears on the Display screen.
4. Press the **ACK** button to acknowledge the Trouble Event.
5. After you press the **ACK** button, the **ACK** button becomes deactivated and appears in gray.
6. Resolve the Trouble Event based on the information that appears on the Display screen. (For example, if a Disconnect device message appears, disconnect and re-enable the device).
7. After you resolve the MNS Trouble Event, verify that the message is cleared from the Display screen.
8. To access the next MNS Trouble Event in the System, press the **Down Arrow** button to scroll to the next Active MNS Trouble Event. (Then, repeat Steps 1 thru 7).

3.5 Supervisory LED

The "SUPERVISORY" LED blinks on/off and the sounder sounds on an on/off pattern when the system is in a Supervisory Off-normal or MNS Supervisory condition. Again, the "ACK" button that appears will acknowledge the off-normal condition that is currently being displayed. After all Supervisory Off-normal and MNS Supervisory conditions are acknowledged, the "ACK" button will become disabled, the Supervisory LED will go steady and the sounder will be silenced.

3.6 System Trouble LED

The "SYSTEM TROUBLE" LED blinks on/off and the sounder sounds steadily if a trouble condition occurs in the system. The trouble condition that is currently displayed on the screen may be acknowledged by pressing the "ACK" button on the Touch screen. Once all trouble conditions have been acknowledged, the "ACK" button will become disabled, the sounder will be silenced, and the "SYSTEM TROUBLE" LED will stay on steady.

3.7 Ground Fault LED

The "GROUND FAULT" LED lights and the sounder sounds steadily if an earth fault has been detected. The "SYSTEM TROUBLE" LED will also light. The ground fault condition may be acknowledged by pressing the "ACK" button on the Touch screen. Once all trouble conditions have been acknowledged, the "ACK" button will become disabled, the sounder will be silenced, and the "SYSTEM TROUBLE" LED will stay on steady. The "GROUND FAULT" LED will also remain lit until the earth fault has been restored.

Section 4: The Main Menu

To open the NGA's Main Menu, press the Menu button on the bottom of the screen.

The following selections appear on the Main Menu:

- Configure
- Walk/Drill
- I/O
- View
- Log
- Service
- Clock
-

Figure 4.1 illustrates the NGA Main Menu screen.



Figure 4.1 NGA Main Menu

4.1 Main Menu Options

Table 4.1.1 describes the Main Menu options that appear on the Menu.

Menu Options	Description
Configure	Allows Auto-configuration of the ILI-MB-E3 and ILI-S-E3, ILI95-MB-E3, or ILI95-S-E3, NGA, and ANX nodes.
Walk/Drill	Enables Walk Test and Fire Drill functions.
I/O	Allows the user to enable/disable input and output devices on the ILI-MB-E3, ILI-S-E3, ILI95-MB-E3, or ILI95-S-E3 nodes, as well as turning output devices on and back to their automatic operation.
Clock	Changes the system's real-time clock.
View	View system configuration information for any ILI-MB-E3, ILI-S-E3, ILI95-MB-E3, or ILI95-S-E3 nodes present in the system.
Log	Displays, prints and clears the System Event Log.
Service	Displays and configures the NGA's settings and displays the NGA's software version. Provides access to Network Query function.

Table 4.1.1 Main Menu Options

4.2 Reset Option

Use the **RST (Reset)** button in the lower-right corner of the screen to reset the system. By default, the NGA will send a Reset Command to all nodes that are within its region.

To configure the NGA to reset all nodes in the system, the user can change the "Global Reset" setting by doing either of the following:

- Access the Service Screen of the NGA
- Use the CAMWorks programming software



NOTE: The Reset option occasionally may be inhibited or locked-out. If this condition occurs, the term, "Reset Inhibited" appears on the message screen. The Reset inhibit is a configurable option in CAMWorks.

4.2.1 Reset Confirmation Screen

To reset the system, do the following:

1. Enter the required Password (if prompted) to "Unlock" and access the system controls.
2. Press the **RST** button in the lower right corner of the screen.
Figure 4.2.1 illustrates the System Reset screen used with Systems configured for MNS.
3. When there are both Fire/MNS Active Alarm Events that appear on the Fire/MNS tabs, the **Fire** button blinks red and the **MNS** button blinks blue.
 - To reset the System for a Fire Event, press the **Fire** button.
After you press the **Fire** button, the Reset screen closes, the System resets and deactivates the Fire Alarm.
 - To reset the System for an MNS Alarm Event, press the **MNS** button.
After you press the **MNS** button, the Reset screen closes, the System resets and deactivates the MNS Alarm.
 - If you press the **Cancel** button, the Reset screen closes.
4. After you press the **Fire/MNS Reset** buttons, press the **ACK** button.

Figure 4.2.2 illustrates an example of a Reset Screen with both the Fire and MNS Reset buttons active.

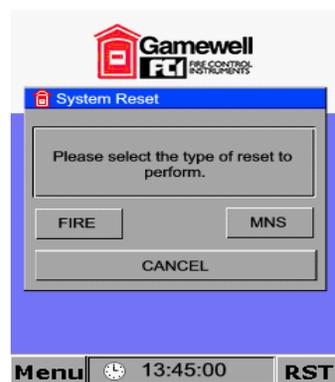


Figure 4.2.1 Reset Screen
(Inactive Fire/MNS Buttons)

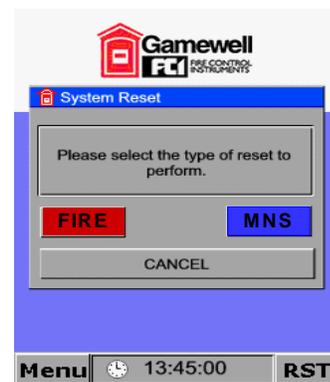


Figure 4.2.2 Reset Screen
(Active Fire/MNS Buttons)



NOTE: FIRE AND MNS RESET BUTTONS OPERATION:

The **Fire** and **MNS Reset** buttons operate independently of each other. When both Fire and MNS Alarm conditions exist, the highest priority condition must be reset first followed by the lower priority condition.

- For FIRE overrides MNS, the Fire Alarm condition must be reset first.

- For MNS overrides FIRE, reset the MNS Alarm first, and then reset the Fire Alarm condition.

You cannot press the **MNS** button to reset Fire and you cannot press the **Fire** button to reset MNS. If either an active Fire Alarm Event or an active MNS Alarm Event occurs, the following conditions take place.

- The active **Fire** button blinks red. The **MNS** button remains deactivated and appears gray.

 - After you press the **Fire** button, the System resets the **Fire** button, but does not reset the **MNS** button.

- The active **MNS** button blinks blue. The **Fire** button remains deactivated and appears gray.

 - After you press the **MNS** button, the Systems resets the **MNS** button, but does not reset the **Fire** button.

4.2.2 Acknowledge Alarm Events

To activate the Acknowledge Alarm, do the following:

1. Enter the required Password (if prompted) to “Unlock” and access the system controls.
2. Press the **ACK** (Acknowledge) button to silence the audible sounder.
The flashing red Alarm indicating LED will light steady, after you acknowledge all alarm conditions.



NOTE: The E3 Series Broadband System is designed to acknowledge one alarm event at a time. Repeat this process for every alarm event on the system.

4.2.3 Silence Outputs (Fire Events Only)

To activate the Silence System outputs, do the following:

1. Enter the required Password (if prompted) to “Unlock” and access the system controls.
2. Press the **SLNCE (Signal Silence)** button ONCE to silence all outputs programmed to be silenceable.



NOTE: MASS NOTIFICATION messages are not silenceable. Manually turn off the active recorded message for MNS audio signal silence. Be sure to observe the status of the System Silence indicating LED.

- If the switch is OFF, press the **SLNCE (System Silence)** button to SILENCE.
- If the switch is ON, press the **SLNCE (System Silence)** button to UNSILENCE.

The subsequent alarm event will re-sound already silenced system outputs.

3. The Silenced or Unsilenced message appears on the Text Message screen.
4. Press the **SLNCE (System Silence)** button again to silence.

4.2.4 Trouble/Supervisory Off-Normal Acknowledge Button

To activate the Trouble/Supervisory Off-Normal Acknowledge, do the following:

1. Enter the required Password (if prompted) to “Unlock” and access the system controls.
2. When there is a Fire Trouble/Supervisory Active Alarm Event that appears on either the Fire or MNS row, the number of Active Events appear on the **TRBL** and/or **SUPV** tabs.
3. Press the **TRBL** and/or **SUPV** tabs to view the Trouble or Supervisory message that appears on the Text Message screen



NOTE: Text Message Screen Border:

After you press the Active Event tab, the Text Message border changes to the same color as the background color that appears on the Active Event tab. If a yellow border appears on the Text Message screen, it represents the highest priority Active Event and the default.

4. To view the Trouble message, press the **TRBL** tab on either the Fire or MNS row.
5. After you press the **TRBL** tab, the Trouble message appears on the Text Message screen and the border appears amber or tan (This color represents the same color that appears as the background color of the **TRBL** tab).
6. Press the **ACK** button to silence the audible sounder. The flashing yellow Trouble indicating LED will light steady.
7. To view the Supervisory message, press the **SUPV** tab on either the Fire or MNS row.
8. After you press the **SUPV** tab, the Supervisory message appears on the Text Message screen and the border appears blue or light blue. (This color represents the same color that appears as the background color of the **SUPV** tab).
9. Press the **ACK** button to silence the audible sounder. The flashing yellow Supervisory indicating LED will light steady.



NOTE: Subsequent trouble and off-normal events will re-sound the audible sounder. Operate the Trouble Acknowledge Switch again to acknowledge new events.

Section 5: Passwords

The options accessible through the NGA's Main Menu are password protected. To access the various option displays, enter a six-digit password. The factory default passwords are listed in Table 5.1:

Level 1= 111111
Level 2= 222222
Level 3= 333333
Level 4= 444444

Table 5.1 Default Passwords

5.1 Factory Default Passwords

Factory default is a term that indicates that the passwords are factory preset-set at these values. It is possible, and highly recommended, to change these passwords to custom settings using the CAMWorks programming software.



NOTE: Since the passwords are configured as a system-wide setting in CAMWorks, each node will have an identical set of passwords.

5.2 NGA Display Lock

In the NGA, you have the option to enable the controls on the touch screen. To enable the controls on the touch screen, you can configure CAMWorks to require the System's Level 2 Password. If the Level 2 Password is not available or the password is incorrectly entered, you cannot use any of the touch screen controls on the NGA. Figure 5.2.1 illustrates the NGA Display Lock.



NOTE: For additional information to configure the NGA, refer to the CAMWorks Online Help.



Figure 5.2.1 NGA Display Lock

5.3 Numeric Entry Keypad Screen

Once a Menu option is chosen, the NGA will display a Numeric Entry Keypad. Use this screen to enter the password. The NGA will also indicate which access level (1-4) is required. Enter only the password indicated.



NOTE: Do not enter a higher level password than is required.

If an invalid password is entered, the system closes the Password Entry screen and the NGA returns to the previous screen and logs the failed access attempt. Likewise, if the "X" close button is used to close the Password Entry screen, the system cancels the access attempt and the NGA returns to the previous screen, but does not log a failed access attempt.

Use the Numeric Entry Keypad screen to enter the password. To enter the password, press the "Enter" button. To correct the entry, use the "<-Bkspc" button.



NOTE: To close the window without entering a password, press the "X" close button in the upper right corner of the window.

Figure 5.3.1 illustrates the Numeric Entry Keypad screen.

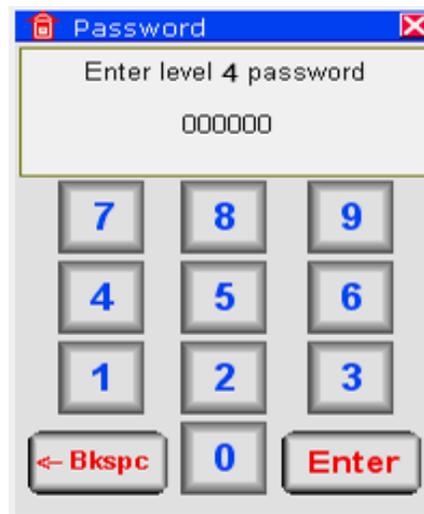


Figure 5.3.1 Numeric Entry Keypad

Section 6: Configure Screen

The Configure screen provides access to the Auto-configure options available on the following nodes:

- | | |
|--|--|
| <p>ILI-E3 Series</p> <ul style="list-style-type: none"> • ILI-MB-E3
(Intelligent Loop Interface-Main Board) • ILI-S-E3
(Intelligent Loop Interface-Expansion Board) • ANX (Addressable Node Expander) | <p>ILI95-E3 Series</p> <ul style="list-style-type: none"> • ILI95-MB-E3
(Intelligent Loop Interface 95- Main Board) • ILI95-S-E3
(Intelligent Loop Interface 95- Expansion Board) • NGA (Network Graphic Annunciator) |
|--|--|

Figure 6.1 illustrates the screen that appears when the user selects the Node tab from the Configure screen.

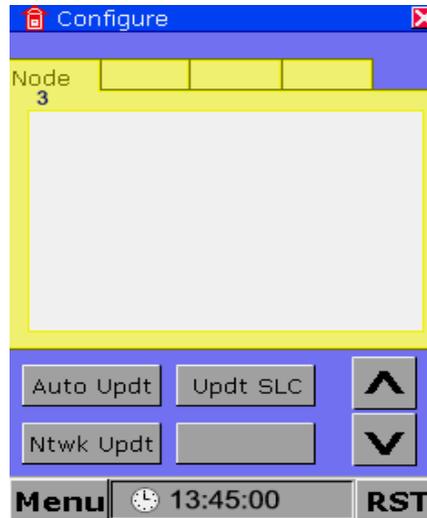


Figure 6.1 Configuration Screen

6.1 Configure Screen Options

Table 6.1.1 describes the buttons that appear on the Configure screen.

Configure Screen Buttons	Description
Auto Updt	Performs a full auto-configure of the selected node. This option will clear the existing configuration, set the system defaults, and configure the SLC devices to their default settings.
Updt SLC	Updates the SLC device information of the selected node. This option will configure new SLC devices and will activate devices that have been previously configured via the CAMWorks programming software and marked as inactive if the devices are present. Note: Performs a full auto-configure on the ANX and NGA nodes.
Ntwk Updt	Updates the network map of the selected node. The network map contains a list of all nodes that are expected to be present in the system. If the network map indicates that a node should be present and a node is not present, a Node Missing Trouble will be reported.
UP / DOWN	Use the up and down arrows to scroll through the list of available nodes.
X	Press the "X" button in the upper right corner to close this screen.

Table 6.1.1 Configure Screen Buttons



NOTE: To open a Numeric Entry Keypad screen (similar to the Password Entry screen), select the Node tab at the top of the screen. Use the Node tab to select a node instead of using the up and down arrows to scroll.

Section 7: Walk/Drill Screen

The Walk/Drill screen allows activation and deactivation of the system's Audible and Silent Walk Test functions as well as the system's Fire Drill mode. The following tabs appear on the Walk/Drill screen:

- Region • Drill • Audible • Silent

7.1 Walk/Drill Screen (Region Tab)

The options that appear on the Region tab of the Walk/Drill screen function within a selected region. For example, all nodes that exist within the selected region will be placed into the Walk Test or Fire Drill mode. Figure 7.1.1 illustrates the screen that appears when the user selects the Regn tab from the Walk/Drill screen.

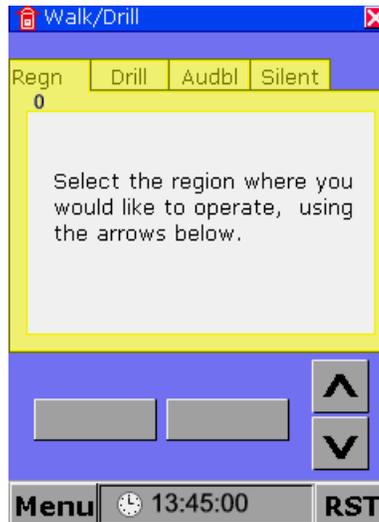


Figure 7.1.1 Walk/Drill Screen (Region Tab)

7.2 Walk/Drill Screen Options

Table 7.2.1 describes the tabs and buttons that appear on the Walk/Drill screen.

Walk/Drill Tabs and Buttons	Description
Regn	Use this tab to open the Numeric Entry Keypad screen to allow direct entry of a region number. (See Note 1).
Drill	Use this tab to open the Fire Drill screen.
Audbl	Use this tab to open the Audible Walk Test screen.
Silent	Use this tab to open the Silent Walk Test screen.
UP / DOWN	Use the up and down arrows to scroll through the list of regions. (See Note 1).
X	Press the "X" button in the upper right corner to close this screen.
NOTE 1: You can only change the Region if the NGA is configured for "Global Reporting."	

Table 7.2.1 Walk/Drill Tabs and Buttons



NOTE: You can change the region only if the Global Reporting option is enabled in the "Service" Menu or via CAMWorks. This option is described in Section 12 of this document.

7.3 Walk/Drill Screen (Fire Drill Tab)

The screen that appears on the Fire Drill tab is similar to the Main Walk/Drill screen. Table 7.3.1 describes the buttons that appear on the Fire Drill screen.

Fire Drill Buttons	Description
Drill On	This button turns on the system fire drill function for the selected region. All nodes in the region will produce a trouble condition, set their Walk/Drill bit in their system status map, and turn on any output devices that are configured to respond to the system Walk Test/Fire Drill general output list.
Drill Off	This button turns off the system fire drill function for the selected region. The Fire Drill trouble condition will be restored on all nodes in the region and the Walk/Drill bit in each node's system status map will be cleared. In addition, the outputs configured for the system Walk Test/Fire Drill general output list will be turned off.

Table 7.3.1 Fire Drill Buttons



WARNING:

Fire Drill must be turned off ONLY from the same node that initiated the fire drill.

7.4 Walk/Drill Screen (Audible Walk Test Tab)

The screen that appears on the Walk/Drill, Audible Walk Test tab screen is similar to the Main Walk/Drill screen. Table 7.4.1 describes the buttons that appear on the Audible Walk Test screen.

Audible Walk Test Buttons	Description
Test On	This button turns on the Audible Walk Test function for the selected region. All nodes in the region will produce a trouble condition, and set their Walk/Drill bit in their system status map. During Audible Walk Test, the NACs will sound twice for each SLC device related trouble event, sound three times for supervisory off-normal events, and sound four times for alarm events.
NOTE: During Walk Test, trouble conditions related to SLC devices will be reported with the word "Test" appended to the Event Report. All other trouble conditions will be reported normally.	
Test Off	This button turns off the Audible Walk Test function for the selected region. The Walk Test trouble condition will be restored on all nodes in the region and the Walk/Drill bit will be cleared for all nodes in the region.

Table 7.4.1 Audible Walk Test Buttons



WARNING:

Walk Test must be turned off ONLY from the same node that initiated the Walk Test.

7.5 Walk/Drill Screen (Silent Walk Test Tab)

The screen that appears on the Silent Walk Test tab is similar to the Main Walk/Drill screen. Table 7.5.1 describes the buttons that appear on the Silent Walk Test screen.

Walk/Drill Screen Buttons	Description
Test On	This button turns on the Silent Walk Test function for the selected region. All nodes in the region will produce a trouble condition, and set their Walk/Drill bit in their system status map. During Silent Walk Test, alarm and supervisory conditions do not produce a response from the system. Instead, the events will be logged to the System Event Log, displayed and printed out to a serial printer or computer if connected to the system. SLC device troubles will be reported in a similar manner. However, all other trouble conditions will be reported normally.
NOTE: During Walk Test, trouble conditions related to SLC devices will be reported with the word, "Test" appended to the Event Report. All other trouble conditions will be reported normally.	
Test Off	This button turns off the Silent Walk Test function for the selected region. The Walk Test trouble condition will be restored on all nodes in the region and the Walk/Drill bit will be cleared for all nodes in the region.

Table 7.5.1 Walk/Drill Screen (Silent Walk Test Tab) Buttons



WARNING:

Walk Test must be turned off **ONLY** from the same node that initiated the Walk Test.

Section 8: I/O Screen

The I/O screen allows the user to enable or disable sensors or modules connected to any ILI-MB-E3, ILI-S-E3, ILI95-MB-E3 and ILI95-S-E3 on the network. In addition, any output module connected to an ILI-MB-E3, ILI-S-E3, ILI95-MB-E3 and ILI95-S-E3 may be manually activated or returned to its normal automatic operation. The following tabs appear on the I/O screen:

- Node
- Device
- Output

8.1 I/O Screen (Node Tab)

When the I/O screen first appears, the Node tab will be active. The Node tab allows the user to specify which ILI-MB-E3 or ILI-S-E3 node to control. Figure 8.1.1 illustrates the screen that appears on the Node tab from the I/O screen.

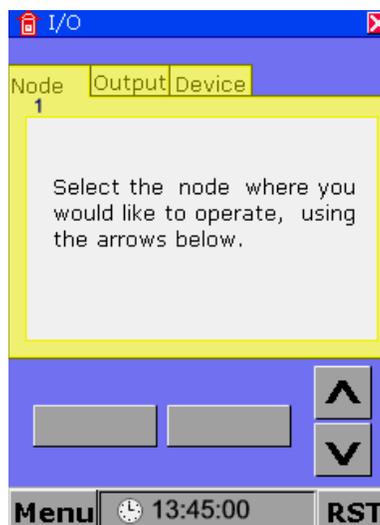


Figure 8.1.1 I/O Screen (Node Tab)

8.2 I/O Screen (Node Tab) Options

Table 8.2.1 describes the controls that appear on the I/O, Node Tab screen.

I/O Screen (Node Tab) Controls	Description
Node Tab	Use the Node tab to display a Numeric Entry screen that allows direct entry of the desired node number.
UP / DOWN	Use the up and down arrows to scroll through the list of available nodes.
X	Press the "X" button in the upper right corner to close this screen.

Table 8.2.1 I/O Screen (Node Tab) Controls

8.5 I/O Screen (Device Tab)

The Device tab of the I/O screen allows the user to manually enable or disable SLC devices.

After you activate the Device tab, an SLC device address or a discrete device (NAC circuit) must be selected.



NOTE: To disable the Municipal Circuit, you must configure the target node to explicitly allow the Municipal Circuit to be disabled.

There are two methods to select the device address:

- One method is to use the Up/Down arrows
- The other method is direct entry

After selecting the device, the NGA will indicate that the status of the device is unknown. To obtain the status information, press the "SHIFT" button twice. Once the status has been updated, it will either read "ENABLED" or "DISABLED". The button to the right of the "SHIFT" button will toggle the state of this device.

Disabling devices will result in a Disconnect Trouble at the selected address. This trouble condition will automatically override the NGA's display. Enabling a device that has been previously disabled will clear the Disconnect Trouble. Figure 8.5.1 illustrates the screen that appears when the user selects the Device tab from the I/O screen.



NOTE: To close this screen, press the "X" button in the upper right corner.

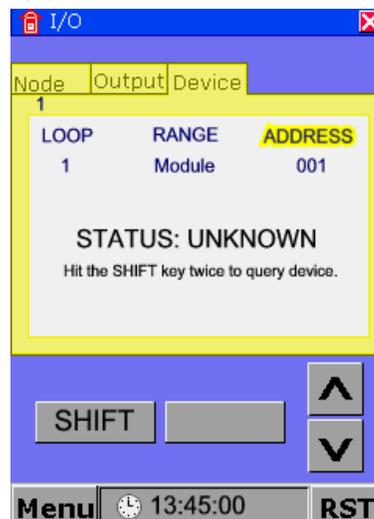


Figure 8.5.1 - I/O Screen (Device Tab)

8.6 I/O Screen (Device Tab) Options

Table 8.6.1 describes the options that appear on the I/O, Device tab screen.

I/O Screen (Device Tab) Controls	Description
LOOP	Tap LOOP to enable a direct entry of a loop number (loop 1, loop 2 or discrete devices). To select discrete devices, enter "0".
RANGE	Tap RANGE to toggle between Sensors, Modules and Bases.
ADDRESS	Tap ADDRESS to enable a direct entry of a device address.
SHIFT	Press SHIFT to move the focus of the yellow highlight between Loop and Address.
ENABLE/DISABLE	If this button reads "ON", it will manually activate this output device. If this button reads "AUTO", it will return the device to its normal automatic operation.
UP/DOWN	Use the up and down arrow buttons to scroll to either the Loop or the Address based on which control appears highlighted in yellow. Use the SHIFT button to shift the focus.
X	Press the "X" button in the upper right corner to close this screen.

Table 8.6.1 I/O Screen (Device Tab) Controls

Section 9: Clock Screen

Each node in the system maintains a 24-hour real-time clock. The time and date may be set via the NGA. The following list the two ways to open the Clock screen.

- Select the Clock item that appears in the NGA's Main Menu.
- Tap the real-time clock that appears in the Main Menu bar at the bottom of the screen.

After the user enters the correct Level 1 password, a screen similar to the following screen that appears in Figure 9.1 will appear:



Figure 9.1 Clock Screen

9.1 Entering the Time and Date on the Clock Screen

Use the Numeric Entry Keypad to enter digits in the Time and Date sections. To correct an entry or move the cursor to the left, press the <-Bkspc (backspace) key. To enter the time and date, refer to the following procedure.

1. To enter the hour and seconds in the Time section, a small vertical cursor automatically appears to the left of the Hour field.
2. After the user enters each digit on the Numeric Entry Keypad, the cursor automatically moves to the right.
3. When the user enters the last digit of the second in the Seconds field, the cursor automatically appears in the Month field of the Date section.
4. Enter the digits for the month, day and year in the Date section.



NOTE: The time must be entered using the 24-hour format. In the Year field, since the first two digits of the year (20) are fixed, the cursor automatically skips these digits. After the day is entered, the cursor moves to the tens digit in the Year field.

9.2 Clock Screen Options

Table 9.2.1 describes the buttons that appear on the Clock screen.

Clock Screen Buttons	Description
<- Bkspc	Press this button to move the cursor one space to the left to allow the correction of an entry.
Enter	Press this button to accept the time and date entry and close the window.
X	Press the "X" button in the upper right corner to close this screen without changing the system's time or date.

Table 9.2.1 Clock Screen Buttons



NOTE: Once the time and date is set, the NGA will synchronize the internal clocks of all of the nodes in the system. This process may take some time to complete. System downloads via the CAMWorks programming software or the E3 Firmware Loader Wizard will automatically synchronize the system's internal clock with the PC's system clock.

Section 10: View Screen

The View screen allows the user to view configuration information for any ILI-E3 or ILI95-E3 Series node that is present in the system. The following tabs appear on the View screen:

- Node
- Devices
- Global

The types of information that may be viewed include the following settings:

- Global Settings
- Input/Output Devices

10.1 View Screen (Node Tab)

When the View screen first appears, the Node tab is active. Use the Node tab to select the node from which to view information. Figure 10.1.1 illustrates the screen that appears when the Node tab is active from the View screen.

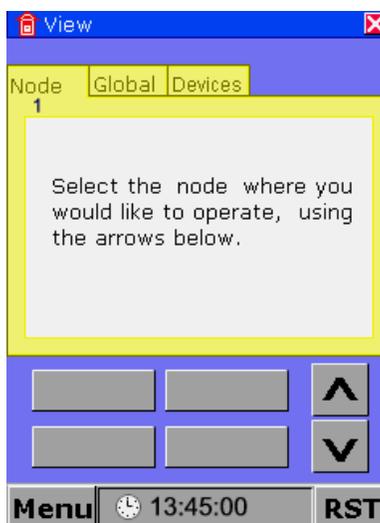


Figure 10.1.1 View Screen (Node Tab)

10.2 View Screen (Node Tab) Options

Table 10.2.1 describes the controls that appear on the View, Node tab screen.

View Screen (Node Tab) Options	Description
Node Tab	Tap the Node tab to display a Numeric Entry Keypad screen that allows direct entry of the desired node number.
UP / DOWN	Use the up and down arrows to scroll through the list of available nodes.
X	Press the "X" button in the upper right corner to close this screen.

Table 10.2.1 View Screen (Node Tab) Controls

10.3 View Screen (Global Tab)

The Global tab of the View screen allows the display of the general settings of any ILI-E3/ILI95-E3 Series on the network. Figure 10.3.1 illustrates the screen that appears when the user selects the Global tab from the View screen.

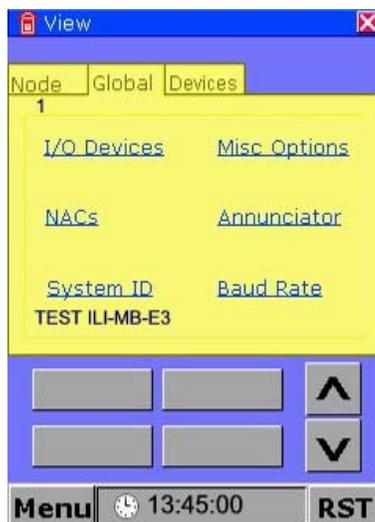


Figure 10.3.1 View Screen (Global Tab)

10.4 View Screen (Global Tab) Options

Table 10.4.1 describes the links that appear on the View, Global tab screen. The following hyperlinks appear on the Global tab. To view the information that appears in the following hyperlinks, tap the hyperlink to open the display.

- I/O Devices
- NACs
- System ID
- Misc Options
- Annunciator
- Baud Rate

10.5 View Screen (Devices Tab)

View Screen (Global Tab) Options	Description
I/O Devices	Displays PAS Night Bypass and the Multilevel Alert and Action percentages.
NACs	Displays the NAC delay settings (such as the NAC Cutoff Delay and the Silence Inhibit Delay). The Silencing and Coding settings for each NAC circuit also display.
System ID	Displays the nineteen (19), character System ID label that appears below this header.
Miscellaneous Options	Displays the Multi-trouble Acknowledge, Trouble Reminder, Walk Test Timeout, PM-9 Supervision and DACT Supervision settings.
Annunciators	Displays the number of ASM-16 switch modules, ANU-48 LED annunciator drivers, LCD-E3 displays and LCD-7100 annunciators connected to the selected ILI-MB-E3. Since the ILI-S-E3 and ILI95-S-E3 nodes do not support annunciators, switch modules or displays, these nodes will always be reported as zero when viewing configuration information from the ILI-S-E3 nodes.
Baud Rate	Displays the currently configured RS-232 baud rate for the selected node in a pop-up window.
UP / DOWN	Use the up and down arrows to scroll through the list of available nodes.
X	Press the "X" button in the upper right corner to close this screen.

Table 10.4.1 View Screen (Global Tab) Controls

The Devices tab of the View screen allows the display of some of the settings pertaining to the SLC devices of any ILI-MB-E3 or ILI-S-E3, ILI95-MB-E3 or ILI95-S-E3 on the network. Figure 10.5.1 illustrates the screen that appears when the user selects the Devices tab from the View screen.



Figure 10.5.1 View Screen (Devices Tab)

10.6 View Screen (Devices Tab) Options

Table 10.6.1 describes the controls that appear on the View, Devices Tab screen. The following types of information may be displayed for each SLC device:

- Device Type
- Verification: None, PAS or Verify

View Screen (Devices Tab) Options	Description
LOOP	Tap LOOP to enable a direct entry of a loop number (loop 1 or loop 2).
RANGE	Tap RANGE to toggle between Sensors and Modules.
ADDRESS	Tap ADDRESS to enable a direct entry of an SLC device address.
SHIFT	Press SHIFT to move the focus of the yellow highlight between Loop and Address.
UP/DOWN	Use the up and down arrow buttons to scroll to either the LOOP or the ADDRESS depending on which control appears highlighted in yellow. Use the SHIFT button to shift the focus.
X	Press the "X" button in the upper right corner to close this screen.

Table 10.6.1 View Screen (Devices Tab) Controls



NOTE: Once a loop, range and address have been selected, the information about the device will appear on the View Devices screen. If the selected address is not configured on the specified node (or is an invalid address), the NGA displays a small pop-up error window indicating the error.

Section 11: Log Screen

11.1 Log Screen (Entry Tab)

The Log screen allows you to view events that are stored in the NGA's History Log. In addition, the Log screen provides options for printing and clearing the History Log. Figure 11.1.1 illustrates the screen that appears when the user selects the Entry tab from the Log screen.

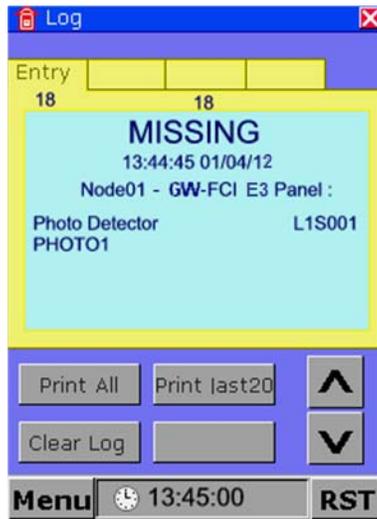


Figure 11.1.1 Log Screen (Entry Tab)

11.2 Log Screen (Entry Tab) Options

Table 11.2.1 describes the buttons that appear on the Log Entry tab screen.

Log Screen (Entry Tab) Options	Description
Print All	Prints a report of all events in the History Log via the NGA's serial port. See the NGA Installation Instructions (P/N: 9000-0568) for the correct terminal connections for the serial port.
Print last 20	Prints a report of the last twenty events stored in the History Log via the NGA's serial port.
Clear Log	Erases the Event History Log for all nodes in the system. Press this button to open a confirmation window that will allow the user to either clear the History Log or cancel the operation.
NOTE: Clearing the History Log will cause a hard reset on all INI-7100, ILI-E3/ILI95-E3 Series, ANX and NGA nodes in the system.	
UP / DOWN	Use the up and down arrows to scroll the event display backward (down) and forward (up).
X	Press the "X" button in the upper right corner to close this window.

Table 11.2.1 Log Screen (Entry Tab) Buttons

11.3 Access Failed Events Screen

The Access Failed Events screen allows you to view Access Failed Events that are stored in the NGA's History Log. Figure 11.3.1 illustrates the Close button and Figure 11.3.2 illustrates Continue button on the Access Failed Events screen.

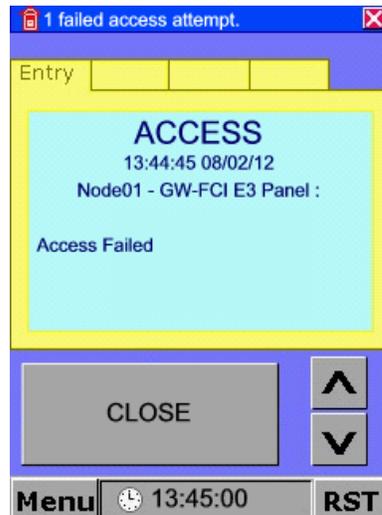


Figure 11.3.1 Close Button

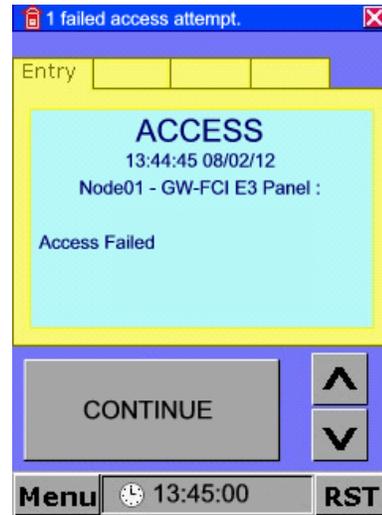


Figure 11.3.2 Continue Button

11.4 Access Failed Events Screen Options

Table 11.4.1 describes the buttons that appear on the Access Failed Events screen.

Log Screen (Entry Tab) Options	Description
CLOSE / CONTINUE	Use the Close / Continue button to either close and return to the Main screen or continue to the next Menu.
UP / DOWN	Use the up and down arrows to scroll the event display backward (down) and forward (up).

Table 11.4.1 Access Failed Events Screen Buttons

Section 12: Service Screen

The Service screen provides options that change the NGA's settings. It consists of the following five tabs:

- NGA • LCD • Version • Logo • Query



NOTE: These settings only apply to the local NGA and not to other NGAs in the system. Some of these settings may be overwritten by a configuration download from the CAMWorks programming software.

12.1 Service Screen (NGA Tab)

The NGA tab of the Service screen allows changes to be made to many, but not all, of the configuration settings of the NGA. This screen also indicates the last configured date and time that appears on the “Version” tab. Figure 12.1.1 illustrates the screen that appears when the user selects the NGA tab from the Service screen.



Figure 12.1.1 Service Screen (NGA Tab - Page 1)

12.2 Service Screen (NGA Tab - Page 1) Options

On the NGA tab screen, the blue text that appears functions as hyperlinks. The links function in two different ways:

- The following settings are simple ON/OFF selections:
 - Global report
 - Global reset
 - Multiple Trouble Acknowledge
 - Silencing

Tap any of these links to toggle the feature on or off.

- Use the following links to open the Numeric Entry Keypad screen to enter user input or change the selected setting.
 - Address settings:
 - Baud rate settings

The following settings are available from the NGA tab of the Service screen. Most of these settings may also be changed by using the CAMWorks programming software, except the following:

- Address Settings

Table 12.2.1 describes the links that appear on the Service, NGA tab screen.

Service Screen (NGA Tab) Options	Description
Multiple Trouble Acknowledge	Enables or disables the NGA's capacity to acknowledge multiple trouble events with one touch of the "ACK" button. If this button is enabled, up to ten troubles may be acknowledged with one touch. If this button is disabled, only one trouble will be acknowledged when the "ACK" button is pressed.
Silencing	Enables or disables the NGA's capacity to silence outputs during alarms.
Global Report	If enabled, the NGA will report events from all network nodes regardless of their region membership. If disabled, the NGA will only report events from other nodes within its region.
Global Reset	If enabled, the NGA will reset all nodes in the network. If disabled, the NGA will only reset other nodes within its region.
Address Settings	This setting changes the network node address of the NGA. This number may range from 1-64.
Baud Rate Settings	This setting changes the baud rate of the NGA's serial port. Standard rates ranging from 1200 Baud to 115,200 Baud may be selected. The baud rate must be set to 115,200 Baud in order to perform downloads via the NGA's serial port.
NEXT	If you select this link, the second page of the NGA tab appears. Use this page to make changes to the Secondary Settings screen.

Table 12.2.1 Service Screen (NGA Tab - Page 1) Links

12.3 Service Screen (NGA Tab - Page 2) Options

The second page of the NGA tab contains blue hyperlinks that control the following option:

- The following setting is a simple ON/OFF selection:
 - Screen Saver
 - Display Lock
 - RS485 Report

Figure 12.3.1 illustrates the screen that appears when the user selects the NGA tab from the Service screen. Table 12.3.1 describes the links that appear on the Service, NGA tab screen.

Service Screen (NGA Tab) Options	Description
Screen Saver	Enables or disables the NGA's screen saver. When enabled, the NGA displays up to six (6) rotating full-screen images (customer supplied) if the system is in normal condition. A "System Normal" banner is superimposed in the upper-left corner of the screen. Any system event or active CAM Text messages disables the screen saver until all system events are restored to normal. Touching the screen restores the "System Normal" screen until the screen saver activates again or is disabled through this menu option.
Display Lock	Use this link to select the Display Lock. When enabled, the NGA requires a password to unlock access to the touch screen functions.
RS485 Report	Use this link to select the RS485 Report. (For Future Use).
PREV	Use this link to select the first page of the NGA tab.

Table 12.3.1 Service Screen (NGA Tab - Page 2) Links



Figure 12.3.1 Service Screen (NGA Tab - Page 2)

12.4 Service Screen (LCD Tab)

The LCD tab that appears on the Service screen includes controls for changing two settings that affect the NGA's LCD display. These settings are brightness and contrast. Figure 12.4.1 illustrates the screen that appears when the user selects the LCD tab from the Service screen.



Figure 12.4.1 Service Screen (LCD Tab)

12.4.1 Service Screen (LCD Tab) Options

Figure 12.4.1 describes the controls that appear on the Service, LCD tab screen.

Service Screen (LCD Tab) Options	Description
Brightness	Tap the Brightness link to place a small outline around the link. Use this control to activate the Up/Down arrow buttons and change the brightness of the LCD backlight. The bar graph is a visual indication of the current brightness setting.
Contrast	Tap the Contrast link to place a small outline around the link. Use this control to activate the Up/Down arrow buttons and change the LCD displays contrast. The bar graph is a visual indication of the current contrast setting.
X	Press the "X" button in the upper right corner to close this window.
UP / DOWN	Use the up and down arrows to scroll the event display backward (down) and forward (up).

Table 12.4.1 Service Screen (LCD Tab) Controls

12.5 Service Screen (Version Tab)

The Version tab displays the Version number of the System Operating Software (SOS) or firmware that is currently installed in the NGA. The software version may be changed via flash download using the E3 Series[®] Firmware Loader Wizard or CAMWorks. Figure 12.5.1 illustrates the screen that appears when the user selects the Version tab from the Service screen.



Figure 12.5.1 Service Screen (Version Tab)

12.6 Service Screen (Logo Tab)

The NGA supports the display of a user-supplied Logo image that may be displayed when the system is in normal condition. If a user-supplied Logo has already been downloaded, Figure 12.6.1 illustrates the screen that may appear when the user selects the Service Screen (Logo Tab).



Figure 12.6.1 Service Screen (Logo Tab)

If a user-supplied Logo has not been loaded (or an image that cannot be displayed by the NGA has been loaded), the NGA indicates that the Logo image is invalid or has not yet been loaded.

12.7 Service Screen (Logo Tab) Options

Table 12.7.1 describes the controls that appear on the Service, Logo tab screen.

Service Screen (Logo Tab) Options	Description
DISPLAY	Tapping on the DISPLAY button will toggle the Logo image display ON and OFF. The button changes to "REMOVE". If the system is configured to display the Logo image, you can select "REMOVE" to remove the Logo image.

Table 12.7.1 Service Screen (LCD Tab) Controls

12.8 Service Screen (Query Tab)

The Service Screen (Query Tab) allows the user to perform a network query process. This network query indicates which network nodes are present and in communication with the NGA. The Query process displays additional information from each node that responds to the Query. The following information appears on the screen:

- Node type
- Status information
- Firmware version

Figure 12.8.1 illustrates an example of a Query process display that appears on the Service Screen (Query Tab).



Figure 12.8.1 Service Screen (Query Tab)

12.9 Service Screen (Query Tab) Options

Table 12.9.1 describes the controls that appear on the Service, Logo tab screen.

Service Screen (Query Tab) Options	Description
Run Query	Touching the Run Query button will initiate a network query process. If the results of a previous query displayed, the window will be cleared and the new query results will be displayed. If a serial printer is connected to the NGA's serial port, a similar report will be printed on the attached printer.
UP/DOWN	If the size of the query report is too large to fit in the window, the UP and DOWN arrow buttons may be used to scroll the text in the window.

Table 12.9.1 Service Screen (Query Tab) Controls

12.10 Service Screen-Query Report and Node Types

The Query Report includes the following fields described in Table 12.10.1.

Fields	Description
Node Numbers	Numbers of the nodes to which the NGA communicates.
Note Type	The node type of the node.
Firmware Version	The node's firmware version. NOTE: In the case of INI-7100 nodes, the Query Report will include only the firmware version of the INI-7100 card, it will not include its attached 7100 panel.
<--LOCAL	Displays to indicate the NGA that is running the Query.

Table 12.10.1 Query Report Fields

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