

Network Control Display
NCD
Instruction Manual



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.

Alarm Signaling Communications:

- **IP connections** rely on available bandwidth, which could be limited if the network is shared by multiple users or if ISP policies impose restrictions on the amount of data transmitted. Service packages must be carefully chosen to ensure that alarm signals will always have available bandwidth. Outages by the ISP for maintenance and upgrades may also inhibit alarm signals. For added protection, a backup cellular connection is recommended.
- **Cellular connections** rely on a strong signal. Signal strength can be adversely affected by the network coverage of the cellular carrier, objects and structural barriers at the installation location. Utilize a cellular carrier that has reliable network coverage where the alarm system is installed. For added protection, utilize an external antenna to boost the signal.
- **Telephone lines** needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily disabled. For added protection against telephone line failure, backup alarm signaling connections are recommended.

The most common cause of life safety system malfunction is inadequate maintenance. To keep the entire life safety system in excellent working order, ongoing maintenance is required per the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 72 shall be followed. Environments with large amounts of dust, dirt, or high air velocity require more frequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled as required by National and/or local fire codes and should be performed by authorized professional life safety system installers only. Adequate written records of all inspections should be kept.

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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.

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.

The equipment must be correctly programmed and installed to suit the specific application. Please ensure correct operational parameters are set prior to commissioning. If further details on programming options are required, please consult the programming manual or contact our helpful technical support personnel.

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. Over-tightening may damage threads, resulting in reduced terminal contact pressure and difficulty with screw terminal removal.

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

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

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EMC Warning:

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Electromagnetic Interference(EMI) tests are performed in accordance with AS/NZS CISPR 32 : 2015 Amd 1:2020

Cybersecurity Warning:

The Network Control Display utilizes RS232 and NUP protocols. Due to inherent limitations of these protocols, there are certain cybersecurity risks associated with their use. Please strictly follow the network environment requirements in the Cybersecurity manual when deploying the equipment.

Documentation Feedback

Your feedback helps us keep our documentation up-to-date and accurate. If you have any comments or suggestions about our online Help or printed manuals, you can email us.

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- Page number (for printed manual)
- Brief description of content you think should be improved or corrected
- Your suggestion for how to correct/improve documentation

Send email messages to:

FireSystems.TechPubs@honeywell.com

Please note this email address is for documentation feedback only. If you have any technical issues, please contact Technical Services.

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Section 1: About this Manual

1.1 Agency Approvals

The NCD has been designed to comply with standards set forth by the following regulatory agencies:

- AS 7240.2:2018
Fire Detection and Alarm Systems
Fire detection control and indicating equipment (ISO 7240-2:2017, MOD)

The NCD supports the following optional functions of AS7240.2:2018:

- Control of Fire Alarm Routing Function - 4.4.9
 - Output to fire protection control function, Output Type B to clause 4.4.10
 - Delays to Outputs, to clause 4.4.11
 - Dependency on more than one alarm signal, Type A Dependency to clause 4.4.12
 - Supervisory signal condition, to clause 4.8
 - Fault signals from points, to clause 4.5.4
 - Output to fault warning routing function, to clause 4.5.10
 - Disabled condition , to clause 4.6
 - Disablement and enablement of addressable points, to clause 4.6.3 as well as these ancillary functions not required by AS7240.2:2018:
 - Any output may be programmed (at Access Level 3) to only respond to signals from one of the following:
 - from any zone (Z000 to Z999), or
 - from any logic zone (ZL1 to ZL1000), or
 - from any release zone (ZR0 to ZR9), or
 - from any special zone, or
 - from any fault zone (ZT1 to ZT100)
 - The ability to disable any input or output, not just those required by AS7240.2
 - Outputs to automatic fire protection equipment (smoke control) may be configured so that they can be reset following an alarm by either:
 - the 'RESET' control, or
 - the 'SMOKE CONTROL Reset' control
 - The fire panel retains a history of the last 4000 events.
 - The ability to test the alarm devices by pressing the 'Alarm Devices Test' control.
- AS 4428.3:2020
Fire detection, warning, control and intercom systems - Control and indicating equipment
Fire brigade panel
 - As 1670.1:2024
Fire detection, warning, control and intercom systems - System design, installation and commissioning

The contents of this manual are important and must be kept in close proximity of the hardware. If building ownership is changed, this manual and all other testing and maintenance information must also be passed to the current owner of the facility. A copy of this manual was shipped with the equipment and is also available from the manufacturer.



WARNING: IMPROPER INSTALLATION, MAINTENANCE, OR LACK OF ROUTINE TESTING COULD RESULT IN SYSTEM MALFUNCTION.



CAUTION: Read all bundled documentation for detailed instructions on upgrade/downgrade installation information.



WARNING: DO NOT CONNECT OR DISCONNECT THE OCULINK CABLE BETWEEN THE CORE AND DIM BOARDS (UPPER AND LOWER BOARDS) WHILE POWER IS APPLIED TO PREVENT SYSTEM DAMAGE.

1.2 Related Documentation

The table below provides a list of documents referenced in this manual, as well as documents for selected other compatible devices.

Networking	Document Number
Noti•Fire•Net Manual, Network Version 5.0 & Higher	51584
High Speed Noti•Fire•Net Manual	54013
NCM-W/F Installation Document	51533
HS-NCM High Speed Network Communications Module Installation Document	54014
ONYXWorks Manual	52342
Cybersecurity Manual	LS10217-000NF-E



NOTE: Supplemental information for a topic, such as tips and references.



CAUTION:

Information about procedures that could cause programming errors, runtime errors, or equipment damage.



WARNING:

Indicates information about procedures that could cause irreversible equipment damage, irreversible loss of programming data or personal injury.

1.3 Compatibility with NOTI•FIRE•NET™ Panel Nodes

FACP	Network Board
AFP-3030	NCM-W/F, HS-NCM-W/W-2/SF/MF/WSF/ WSF-2/WMF/WMF-2/MFSF
Note: NCD is not compatible with AFP-2800	

Table 1.1 NOTI•FIRE•NET™ Compatible Fire Panels

1.4 General Description Conventions

This manual uses the following conventions as listed below:

When you see	Specifies	Example
Text in small caps	The text as it appears in the Touch Screen display or on the control panel	CO ALARM CO MONITOR FIRST FLOOR GUEST ROOM
Text in quotes	A reference to a section or a touch screen menu	“Status Change” specifies the Status Change section or menu screen
Italic text	A specific document	Section 3.3, “User Login”, on page 23

1.5 Overview

The NCD is a Network Control Display for High Speed or Standard NFN Networks. It offers a direct connect display for stand-alone ONYX AFP-3030 AU Panels (version 33 or higher). It has a High Definition 10 inch color touch screen display, and is capable of displaying up to 3,000 simultaneous events.

1.6 Features

The NCD incorporates the following features:

- List of active events organized by status, event type and event time
- Configurable Alert Bar with color coded event icons indicating the status and event counts
- Fire Alarm, CO Alarm, Supervisory, Trouble, and Disable Event Monitoring
- Panel Event Signal Silence Capability
- Color Coded Header Bar
- Adjustable back-light intensity
- User defined informational text
- Clickable Menu bread crumbs
- Audio and visual feedback on touch point
- Reminder for Fire, Supervisory, CO, and Trouble
- Trouble Relay
- System Fault LED to indicate a fault status on the NCD
- AC power LED to indicate primary power status
- Piezo to indicate unacknowledged events
- Tamper and Trouble inputs
- 3 USB Ports
- Configurable using VeriFire Tools.
- Lamp Test locally on the NCD
- AC Fail Delay
- Alarm Device Disable
- Alarm Device Test
- ASE Indicator
- Delay on/off
- Disable button
- Fault/System Fault
- Fire indicator in header row
- First alarm indication in Header row
- Rebooted fault
- Range Disable
- Sliencer Buzzer and Silence Alarm button
- Smoke control Disable
- Smoke control Reset
- System Reset

1.7 NCD Display

The NCD has as high definition 10 inch touch screen to display system and panel events. A touch point for menu access, a Header Bar which shows color coded event status, and touch points for acknowledge, signal silence, and reset.

- **Menu/Home Button**
 - The Menu/Home Button is always present and located on the top left of the screen. Tapping on this touch point will take the user to the menu list from the home screen or back to the home screen from any menu screen.
- **User Login Button**
 - The User Login Button is always present and located on the top left of the screen. Tapping on this touch point will bring the user to the login screen for individual users. For more information on User Login, refer to Section 3.3, “User Login”, on page 23.
- **Header B**
 - The “Header Bar” is always present and located along the top of the screen. It displays all active events, system normal, and the “Acknowledge”, “Silence” and “Reset” touch points. The date and time are also displayed in the Header Bar. It provides system status as well as highest priority unacknowledged events.
- **Instructional Text Area**
 - The Instructional Text Area is used to provide user instruction in a fault condition. The instructional Text can be enabled and disabled, and is fully configurable through VeriFire Tools.
- **Alert Bar**
 - The “Alert Bar” is always present and located along the side of the screen. The Alert Bar event categories can be configured though VeriFire Tools . It shows color coded events, such as “FIRE ALARM”, “SYSTEM FAULT”, “ FAULT”,“Supervisory” activation, “DISABLE” activation, “OTHER” activation”, “ALARM SILENCED” activation” along with event counts and whether the outputs have been silenced.
- **Events List**
 - The “Events List” (Main Display Area) shows all events and their status. It indicates if events have been acknowledged or silenced and is color coded as well as scrollable.

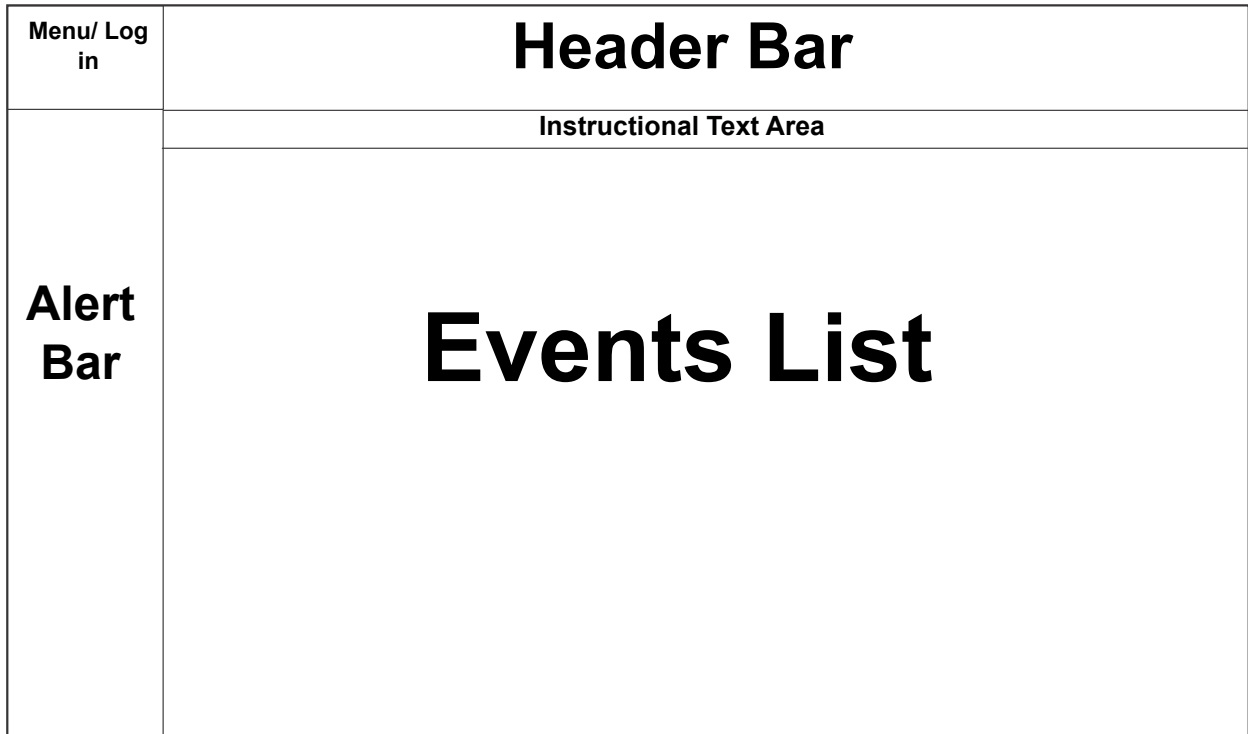


Figure 1.1 Display Regions

Display Conditioning

Every 30 minutes the display will enter Display conditioning mode. During Display Conditioning the display will transition through various screens including a completely blank screen. This process takes about seven seconds. It is done to prevent image persistence, and keeps information clear and undistorted. Any display interaction will abort Display Conditioning mode.

1.8 Technical Specifications

Power Input: 24 VDC via dual independent power cables for redundancy. Each cable must be routed separately to ensure compliance with AS7240.2 requirements. (refer to wiring diagram mentioned in section 2.3- NCD Power Supply Monitoring).

Input Voltage Range: Minimum 18 VDC, Maximum 30 VDC.

USB Ports: USB is 2.0, USB A and USB Micro are located on the Core Board, USB C is located on the front of the NCD display. **Touch Screen Display:** 10 inch High Definition Touch Screen Display.

Current draw: 360mA in Standby. 380mA in Alarm.

Tamper and Trouble Input: Tamper and Trouble inputs.

Trouble Relay: 30 VDC 2A.

Operating Temperature: The NCD has been tested to operate at 49°C for compliance with AS7240.2 environmental requirements.

Environmental Classification: The NCD is classified for indoor use under controlled environmental conditions as per AS 7240.2. Operating temperature range: 0°C to 49°C. Humidity: 10–93% non-condensing.

Section 2: Installation

2.1 Preparing for Installation

Choose a location for the NCD that is clean, dry, and vibration-free with moderate temperature. The area should be readily accessible with sufficient room to easily install and maintain it. There should be sufficient space for cabinet door(s) to open completely.

Carefully unpack the system and inspect for shipping damage. Count the number of conductors needed for all devices and find the appropriate knockouts.

Before installing the NCD, read the following:

- Review the installation precautions at the front of this manual.
- Installers should be familiar with the standards and codes specified in Section 1.1 “Standards and Specifications”.
- All wiring must comply with the National and Local codes for fire alarm systems.
- Do not draw wiring into the bottom 9 inches (22.86 cm) of the cabinet except when using a separate battery cabinet; this space is for internal battery installation.
- Wiring methods used shall be in accordance with Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681

Review installation instructions in Section 2.1 “Installation Checklist”.



WARNING: RISK OF EQUIPMENT DAMAGE

MAKE SURE TO INSTALL SYSTEM COMPONENTS IN THE SEQUENCE LISTED BELOW. FAILURE TO DO SO CAN DAMAGE THE CONTROL PANEL AND OTHER SYSTEM COMPONENTS.



WARNING: RISK OF EQUIPMENT DAMAGE

WEAR A STATIC DISCHARGE STRAP ON WRIST TO PREVENT EQUIPMENT DAMAGE.



WARNING: RISK OF EQUIPMENT DAMAGE

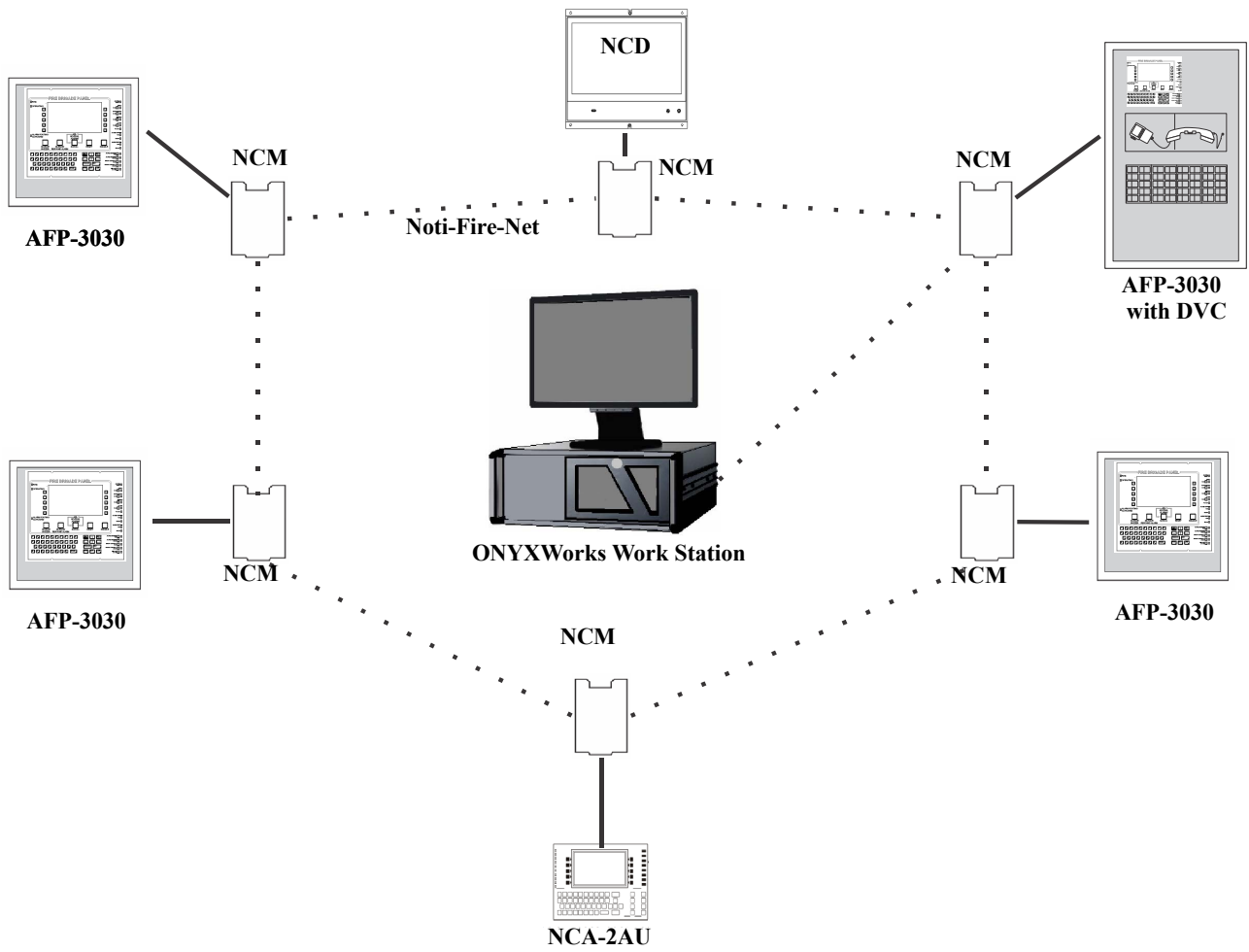
ADJUSTING THE SCREEN BRIGHTNESS GREATER THAN 75% WILL REDUCE THE LIFE OF THE DISPLAY.

2.2 Installation Checklist

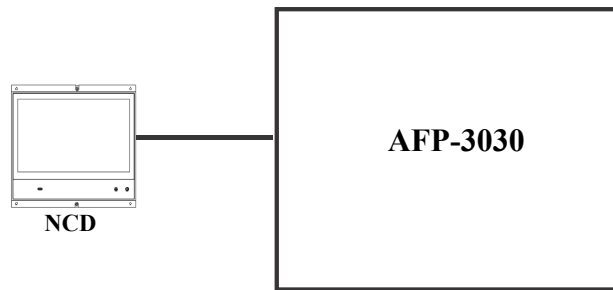
The checklist that follows contains references to information included in other manuals; see “Related Documentation” on page 7 for document part numbers.

	Task	Refer to:
1.	Mount the cabinet backbox to the wall.	Section ^{***}
2.	Attach NCD to dress panel.	Section 2.2 “Dress Plate Mounting”
3.	Attach option boards (e.g. network communications modules and other devices of the same size) to chassis and dress plates.	Refer to the Installation document for the specific device and dress plates.
4.	Attach chassis in assembled dress plate to cabinet.	Section ^{***}
5.	Wire Relays	Figure 2.9
6.	Digital Voice components.	<i>Digital Voice Control Manual</i> , etc.
7.	Network devices.	Noti•Fire•Net Version 5.0 & Higher Manual, or High-Speed Noti•Fire•Net Manual and/or Installation document for specific device(s).
8.	Main power supply.	Main Power Supply Manual BB-100/200 Cabinet Installation Instructions.
9.	Install main power supply and batteries. Run cables to main and optional power supplies, DC power outputs, relays, etc.	Applicable system and power supply manuals.
WARNING: RISK OF EQUIPMENT DAMAGE		
DO NOT ACTIVATE POWER AT THIS TIME. DO NOT CONNECT BATTERIES.		
10.	Check that all mounting holes are secured to insure a proper Earth Ground connection.	
11.	Connect wire shielding to Earth Ground.	
12.	Apply AC power to the power supply or the control panel. Do NOT connect batteries until AC power is checked (see next step).	
13.	Check AC power.	Power Supply manual.
14..	Connect the batteries using interconnect cable as described in power supply manual.	
15.	Install the dress panels, doors and covers.	CAB-3/CAB-4 Series Cabinet Installation Document.
16.	Program the NCD.	Section 3, “Programming”, on page 23
17.	Field test the system.	

Table 2.1 Installation Checklist



Typical NFN Configurations



Typical Configurations for Systems Using the NCD as a Display

NOTE: In this diagram, the term:
 "NCM" includes standard and high-speed network communication modules.
 "Noti-Fire-Net" includes standard and high-speed network versions.

Figure 2.1 Possible Configurations with the NCD

2.3 Board Layout and Wiring Requirements

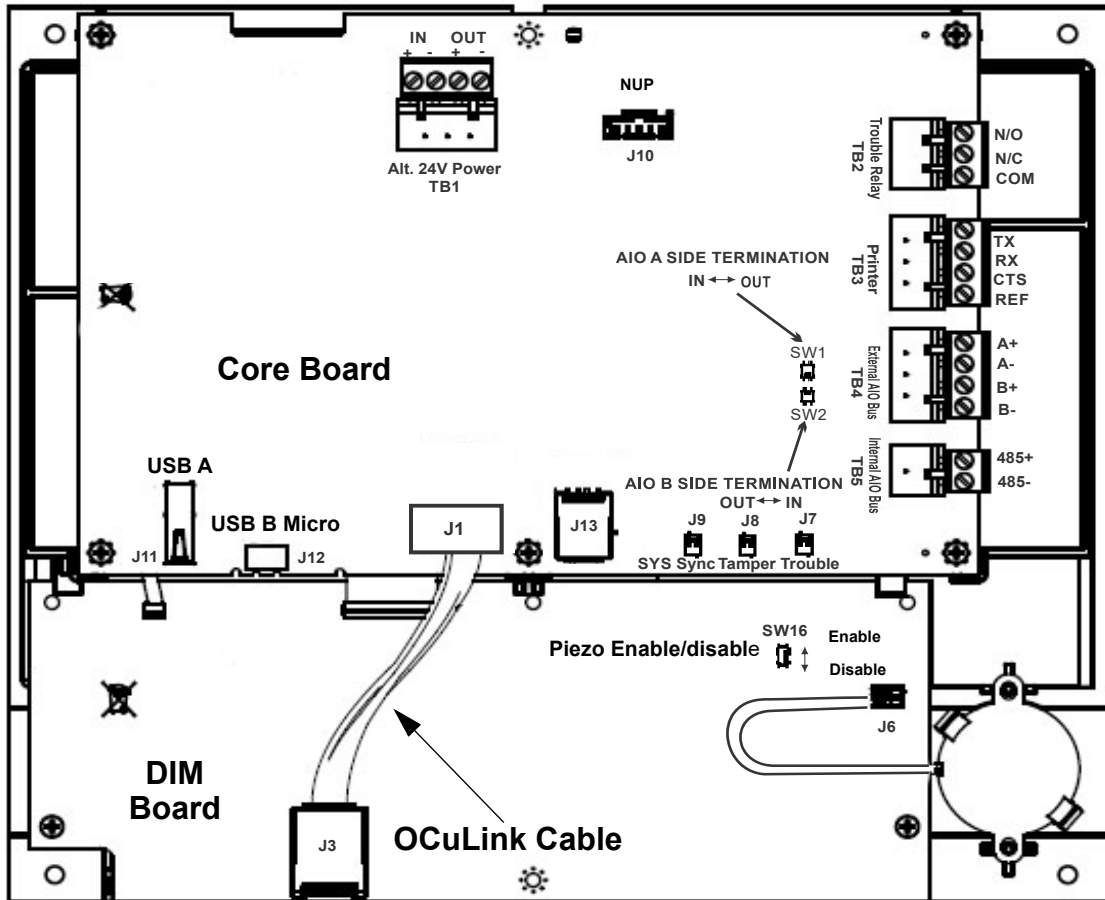


Figure 2.2 Board Layout and Wiring Requirements



WARNING: RISK OF EQUIPMENT DAMAGE

DO NOT CONNECT OR DISCONNECT THE OCULINK CABLE BETWEEN THE CORE AND DIM BOARDS (UPPER AND LOWER BOARDS) WHILE POWER IS APPLIED TO PREVENT SYSTEM DAMAGE.

Designator	Description	Specification
TB1	Alt 24 V Power	<ul style="list-style-type: none"> Primary power input for the NCD 18-30 VDC
TB2	Trouble Relay	<ul style="list-style-type: none"> 30 VDC 2A, 0.35 PF Non-power-limited Form C dry contact
TB3*	Printer Connection (for supplemental use only)	<ul style="list-style-type: none"> Power-limited (Class 2) Supervision of end to end communication Isolated printer connection (left side) Equipment must be located in the same room within 20 feet of the panel with cables in conduit
TB4	Internal AIO Bus	<ul style="list-style-type: none"> Characteristic impedance: 120 ohms Supervised Power-limited (Class 2) A maximum of 80 annunciator devices can be connected to the system. Up to 10 annunciators can be configured as routers, each supporting 15 additional annunciators Must be within 20ft of panel Must be in same room as panel Cable must be in conduit

Designator	Description	Specification
TB5	External AIO Bus	<ul style="list-style-type: none"> • Characteristic impedance: 120 ohms • Supervised return • Power-limited (Class 2) • A maximum of 80 annunciator devices can be connected to the system. Up to 10 annunciators can be configured as routers, each supporting 15 additional annunciators • Long line resistance: 100 ohms
J1	OCuLink Connection	• To display (DIS-10-RD)
J7	Trouble Input	• Dry contact
J8	Tamper Input	• Dry contact
J9	Future Use	• Future use
J10	Network Service Connection (NUP)	<ul style="list-style-type: none"> • Power-limited (Class 2) • Supervised • Must be in cabinet located in the same room within 20 feet of the panel with cables in conduit
J11	USB A	• N/A
J12	USB B Micro	• N/A
J13	Future Use	• Future use



NOTE: AIO Bus capabilities and the printer connection require a Core-2PCA (marked on the PCB) or a CPU-NCD-RB replacement board to function.



NOTE: 24 VDC is required to power the NCD (TB1 located on the NCD).
 DIM-PCB: Display Interface Module – manages touch screen and user interface.
 CORE-2PCA: Core Processing Board – handles system logic, event processing, and communication

Ground Screw Locations

Ground screws are located at the center top and bottom center on the front of the NCD. It is important to secure each screw to maintain proper grounding. See Figure 2.3

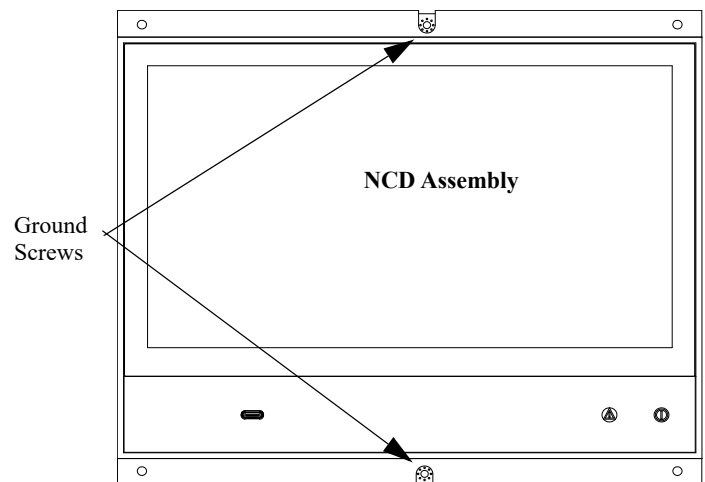


Figure 2.3 Ground Screw Locations

Event Indicator Locations

There are two LED indicators located on the bottom right of the NCD front panel. A power LED to indicate if A/C is present, and a system fault LED for any fault condition. See Figure 2.4

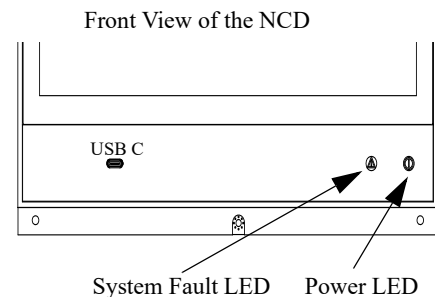


Figure 2.4 LED Locations

Piezo Enable/Disable

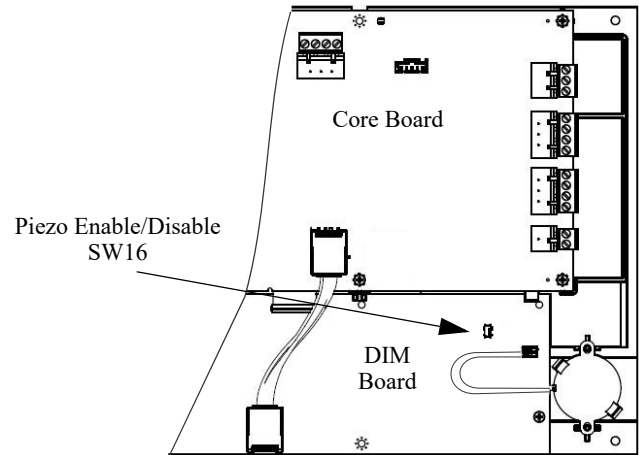


Figure 2.5 Piezo Enable/Disable



CAUTION: PIEZO ENABLE/DISABLE

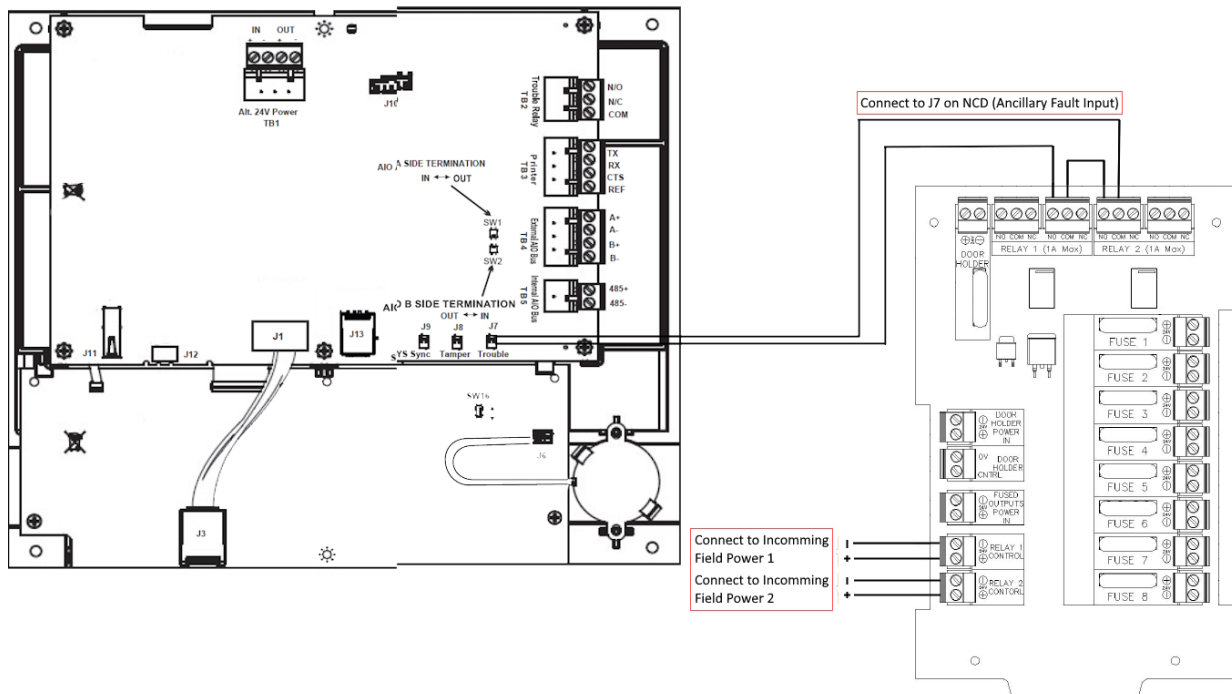
For technician and service use only

To enable the Piezo, position SW16 in the UP position.

To disable the Piezo, position SW16 in the DOWN position.

When the Piezo is disabled the NCD will display a trouble condition until it is re-enabled. See Figure 2.5

NCD Power Supply Monitoring.



Section 3: Programming

This section describes the programming options for the NCD

3.1 USB Port C

There is an available USB port located on the front panel of the NCD, see Figure 3.1. This USB port can be used to conveniently connect to the VeriFire Tools PC.

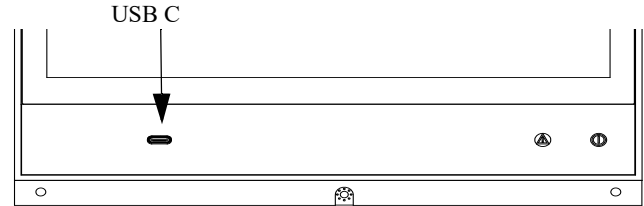


Figure 3.1 USB C

3.2 Password Requirements

When power is first applied, the NCD will prompt the user to change the password. A trouble message stating CHANGE THE PASSWORD will be displayed. The master password can only be set through the NCD display.

The password guidelines are as follows: Passwords must be 8 to 16 characters, which can be a combination of alpha-numeric upper and lower case characters and numbers. The password does not have a minimum of character types and is case sensitive



NOTE: For firmware version 5.0 or higher, a USB Drive is required for password recovery

3.3 User Login

The USER LOGIN touch point is always present and located in the upper left hand corner of the screen. This option allows the user to create and manage up to 50 unique password protected user accounts on the NCD. This login will allow access for various programming options and programming levels on the NCD.

3.3.1 Adding and Removing a User

A user name cannot exceed 16 alpha numeric characters.

Adding a User

- At the main menu tap on the touch point SETTINGS and then USERS
- In the users menu tap on ADD USER. The screen will prompt you to create a user name and a unique password for that user name.
- The virtual keyboard will appear
- Once a user name and password has been entered tap on ADD USER to save the information

Removing a User

- At the main menu tap on the touch point SETTINGS and then USERS
- In the users menu tap on the REMOVE USER touch point
- The virtual keyboard will appear enter the user name to be removed then tap on REMOVE USER

×	🔍	System Normal	🔇 Silence Buzzer	🔇 Silence Alarm	↶ Reset	🔥 Smoke Control Reset	Tue 01/20/20 12:36:20 PM Master																																								
🔥 FIRE ALARM	Menu -> Service -> User Accounts																																														
⚠️ SYSTEM FAULT	User Accounts Current user access level 5																																														
⚠️ FAULT	AddUser	Username	<input type="text" value="Tom"/>	Showonloginscreen	<input checked="" type="checkbox"/>																																										
📶 SUP	Remove User	New Password	<input type="password" value="••••••••"/>	AccessLevel	4																																										
🚫 DISABLE	Change Password	Re-enter Password	<input type="password" value="••••••••"/>	<input type="button" value="Add User"/>																																											
⋮ OTHER	Recover Password	<table border="0" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>0</td> </tr> <tr> <td>@</td><td>#</td><td>\$</td><td>-</td><td>-</td><td>+</td><td>(</td><td>)</td><td>/</td><td></td> </tr> <tr> <td>=</td><td>*</td><td>"</td><td>'</td><td>:</td><td>;</td><td>!</td><td>?</td><td><<</td><td></td> </tr> <tr> <td>ABC</td><td>,</td><td></td><td></td><td></td><td></td><td>.</td><td></td><td>Enter</td><td></td> </tr> </table>						1	2	3	4	5	6	7	8	9	0	@	#	\$	-	-	+	()	/		=	*	"	'	:	;	!	?	<<		ABC	,					.		Enter	
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=	*	"	'	:	;	!	?	<<																																							
ABC	,					.		Enter																																							
🔊 ALARM SILENCED																																															

Figure 3.2 User Login Screen

3.3.2 Changing Password and Recovering a Password

The user has the ability to change and recover the password in the User Login screen.

Changing the Password

- At the main menu tap on the touch point SETTINGS and then USERS
- Once in the user menu tap on CHANGE PASSWORD
- The virtual keyboard will appear and prompt to enter the user name to change the password
- Enter the new password
- Tap on CHANGE PASSWORD to save the new password

Recovering a Master Password

- At the main menu tap on SETTINGS and USERS
- Once in the users menu tap on RECOVER PASSWORD and then tap on GENERATE RECOVERY CODE
- Record the code and contact NOTIFIER Technical Support
- Once the temporary password has been received and entered into the panel the master password must be changed..
- The temporary password is only active for five days. Once it expires the recovery process must be re-initiated.

Recovering a Master Password for firmware version 5.0 or higher.

To recover a master password on firmware version 5.0 or higher a USB drive is required. Follow the steps below to recover the master password.

- At the main menu, tap on SETTINGS and USERS
- Once in the users menu, insert the USB drive, tap on RECOVER PASSWORD and follow the prompts
- A password recovery file will upload to the USB drive
- Once the password change file has been received and uploaded to the panel, the master password must be changed
- The password change file is only active for five days. Once it expires the recovery process must be re-initiated
- Send an email to notifier.tech@honeywell.com to initiate the NOTIFIER password agreement process

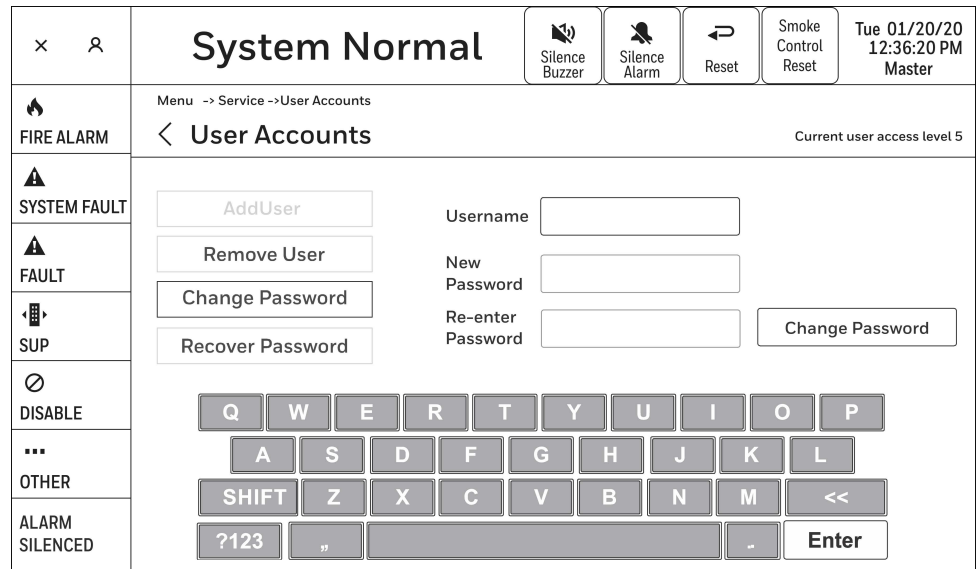


Figure 3.3 Password Screen

3.3.3 Levels of Programing Access for Users on the NCD

There are four access levels (1-4) that can be assigned to 49 of the 50 programmable users. Additionally, there is a master user whose access level is fixed at level five (5). Only one level five user allowed. Refer to Table 1, “User Level Permissions” for default information on user level capabilities. Through the user setup screen Actions defaulted to yes can be changed to no. This applies to user levels 4 though 1. Refer to VeriFire Tools for more information on user accounts.

User Level Permissions

- Master User (level 5 user)
- Access Level 4 users may perform firmware updates and database uploads via USB using VeriFire Tools. This constitutes the ‘special means’ referenced.
- Technician User (level 3 user)
- Building Maint User (level 2 user)
 - The Level 2 access is via 003 Fire Brigade Lock / Key located on the Front Door of NBB-2 Cabinet”
- System Operator (level 1 user)
 - A Level 1 user can be programmed to be logged in by default when there is no other user logged in. The default user name is set at “Public Access”
- *All user names can be customized to a unique user name in VeriFire Tools. User Level Programming Capabilities

Action	Master (Level 5)	Level 4	Level 3	General Access (Level 2)	Public Access (Level 1)
Acknowledge	Yes	Yes	Yes	Yes	Yes
Signal Silence	Yes	Yes	Yes	Yes	Yes
Reset	Yes	Yes	Yes	Yes	Yes
Enable/Disable	Yes	Yes	Yes	Yes	Yes
Modify Point Label	Yes	Yes	Yes	No	No
Clone Points	Yes	Yes	No	No	No
Delete Point	Yes	Yes	No	No	No
Change Password	All Users	Individual Level 4 All Level 3 and 2	Individual Level 3 All Level 2	Individual Level 2	N/A
Walk Test					
Read Status	Yes	Yes	Yes	Yes	Yes
Force ON/OFF	Yes	Yes	Yes	Yes	No
Upload Database	Yes	Yes	No	No	No
Download Database	Yes	Yes	No	No	No
Change Time/Date	Yes	Yes	Yes	No	No
Set Network Configuration	Yes	Yes	No	No	No
Ability to Revoke Other Users	Yes	No	No	No	No
View General History	Yes	Yes	Yes	Yes	Yes
View Sensitive History	Yes	No	No	No	No
Export History	Yes	Yes	Yes	No	No
Scroll the Display	Yes	Yes	Yes	Yes	Yes
Resound	Yes	Yes	Yes	Yes	Yes
Download Firmware	Yes	Yes	No	No	No
Change Sensitivity	Yes	Yes	Yes	No	No
Change Node Address and Label	Yes	Yes	No	No	No
Autoprogram SLC	Yes	Yes	No	No	No
Autoprogram Node Map	Yes	Yes	No	No	No
Modify Node Map	Yes	Yes	No	No	No
Add Annunciators/Remote Displays/Communicator	Yes	Yes	No	No	No
Auto Program (add/remove) Annunciators/Remote Displays/Communicator	Yes	Yes	No	No	No

Action	Master (Level 5)	Level 4	Level 3	General Access (Level 2)	Public Access (Level 1)
Add/remove Loop Cards/Modules	Yes	Yes	No	No	No
Modify Loop Card/Module Settings	Yes	Yes	No	No	No
Add Communicator	Yes	Yes	No	No	No
Power Supply Monitoring Settings	Yes	Yes	No	No	No
Lamp Test	Yes	Yes	Yes	Yes	
Service Mode	Yes	Yes	No	No	No
Firmware Update Via USB	Yes	Yes	No	No	No

Table 1 User Level Permissions

3.4 Menu Navigation

The MENU touch point is always present and located in the upper left hand corner of the screen. Tap this touch point to bring up the menu options for settings, programming and test/diagnostics. The MENU screen navigation is not accessible when there are current unacknowledged active events. An incoming alarm will automatically exit the MENU screen to the Events List.

×	🔔	<h1>System Normal</h1>	🔇 Silence Buzzer	🔇 Silence Alarm	↶ Reset	Smoke Control Reset	Tue 01/20/20 12:36:20 PM Master
🔥 FIRE ALARM	Main Menu						
⚠️ SYSTEM FAULT	SETTINGS	Date, Time, Display, Versions Information , User Accounts, Service Mode, Licensing					>
⚠️ FAULT	PROGRAMMING	Network Mapping, Node Address					>
📶 SUP	POINT INFORMATION	Read Status, Control On/Off, Disable/Enable, Point History					>
🚫 DISABLE	TEST/DIAGNOSTICS	Circuit Board Temperature, CPU Temperature, Lamp Test, Panel History, Clear Database					>
⋮ OTHER	SERVICE	Alarm Devices Disable, Alarm Devices Test, Smoke Control Disable, Range Disable, Delays					>
🔇 ALARM SILENCED	CUSTOM	Custom Actions					>

Figure 3.4 System Normal Screen

Settings Tap the SETTINGS touch point to access the settings menu. This menu provides access to display settings, brightness clean mode, hardware version, software version, user accounts, and about. Refer to section 3.4.1, "Settings"

Programming Tap the PROGRAMMING touch point to enter the programming menu. This menu provides access to network programming. Refer to “Programming” on page 29.

Point Information Allows the user to enable and disable system points as well as view specific point information.

Test/Diagnostics Tap the TEST/DIAGNOSTICS touch point to enter the test/diagnostics menu. This menu provides access to Lamp Test and CPU temperature along with panel the history view.

Service Allows the use to access menu to execute several actions, including Alarm Devices Disable, Alarm Devices Test, Smoke Control Disable, Range Disable and Delays.

Custom Only pro-programmable though VeriFire Tools. Refer to“Custom Actions” on page 33 as well as VeriFire Tools.

3.4.1 Settings

Tapping the SETTINGS touch point on the Menu screen will display the Settings options on the NCD.

Display Tap on the DISPLAY touch point to adjust brightness or enter clean mode. Refer “Display” on page 28

About Tap the ABOUT touch point to display information about the panel. Refer to “About” on page 28

Update Tap the update touch point to update either the application, the kernel, the full system and/or the wallpaper. For more information refer to “System Update” on page 28

User Accounts Tap the users touch point to access the user menu Refer to “Users” on page 28 and “User Login” on page 23

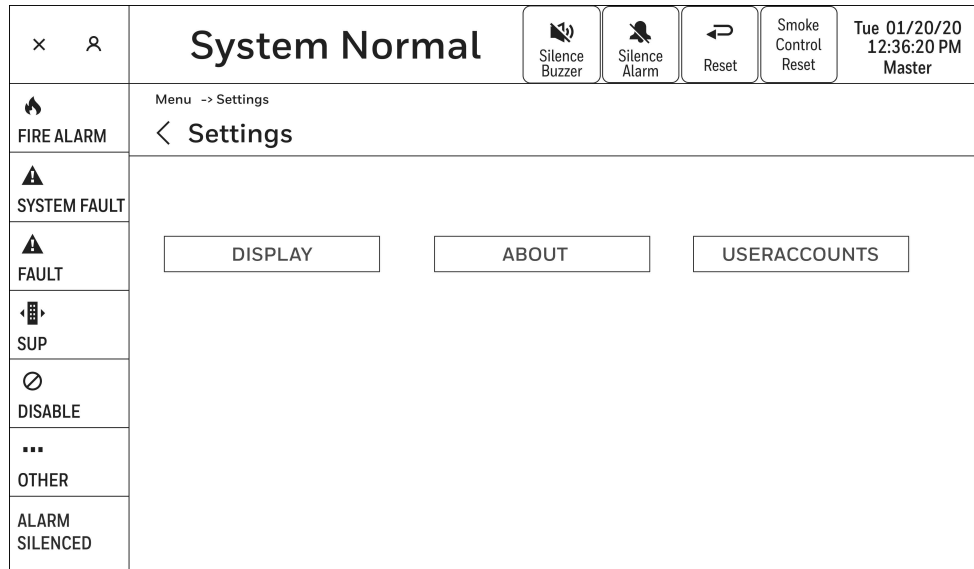


Figure 3.5 Settings Screen

Display

Tap the DISPLAY touch point to access the back-light brightness setting, wallpaper settings and clean mode.

Brightness Tap and hold the slide touch point to adjust the back-light brightness. Setting the display brightness above 75% for prolonged periods of time will decrease the overall life of the display.

Clean mode Tap the touch point CLEAN to activate clean mode. Once activated, clean mode disables the touch response to allow for cleaning of the screen. A countdown timer is displayed providing indication of time left before the system exits Clean Mode. The Clean Mode countdown timer is programmable through VeriFire Tools and defaulted to 15 seconds. Refer to the VeriFire Tools for additional information.

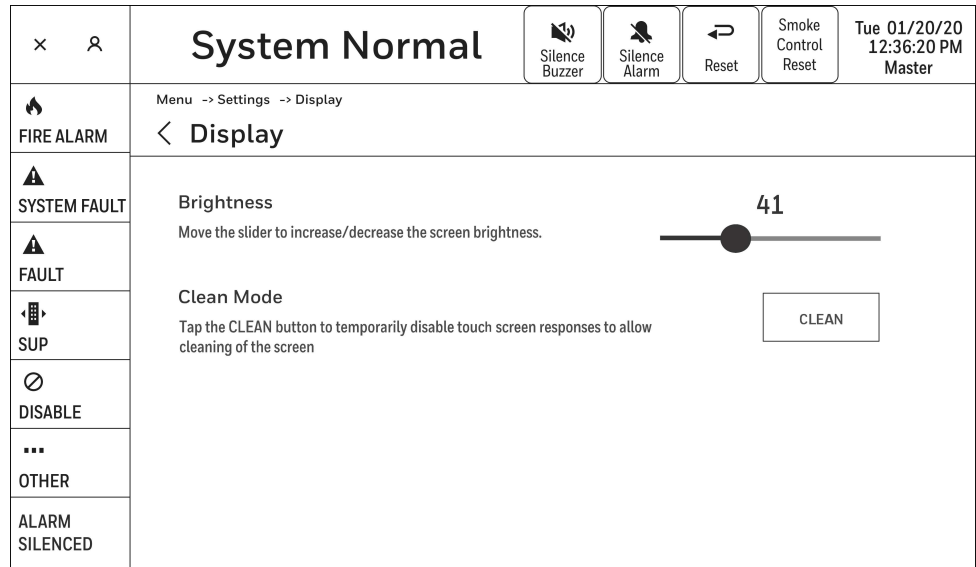


Figure 3.6 Display Screen

Event Ordering Allows the user to set event ordering,

show or hide the primary zone label and address on an event row and show or hide the leading zeros on addresses. Set in VeriFire Tools. See VeriFire Tools for more information

Wallpaper A Wallpaper image can be downloaded from VeriFire Tools, to be displayed on the System Normal screen.



NOTE: It is recommended to use only a dry clean, lint free/microfiber cloth to clean the display. If additional cleaning is needed, apply a small amount of Isopropyl alcohol to the cloth and wipe clean. Do not use detergents, solvents, or water for cleaning. Do not spray liquid directly onto the display.



CAUTION: DISPLAY LIFE

SETTING THE DISPLAY BRIGHTNESS ABOVE 75% FOR PROLONGED PERIODS OF TIME WILL DECREASE THE OVERALL LIFE OF THE DISPLAY.

About

About Tap the touch point ABOUT to display the model number, application, boot version, kernel version, database, database revision, network, and system update information.

System Update Tap the touch point SYSTEM UPDATE to access application, kernel, full system, and wallpaper update capabilities. To update the application tap the touch point UPDATE APPLICATION. To update the kernel tap the touch point UPDATE KERNEL. To update the full system tap the touch point UPDATE FULL SYSTEM. To update the wallpaper tap the touch point UPDATE WALLPAPER. For all updates the virtual keyboard will appear once the selected update is tapped on, tap in the file name to update and then tap the touch point PREFORM UPDATE to complete the update. Updates can be done from a file on a USB drive connected to the panel.

Users Tap the touch point USERS to add or remove a user, change the password for a user account, or recover a password for a user account.

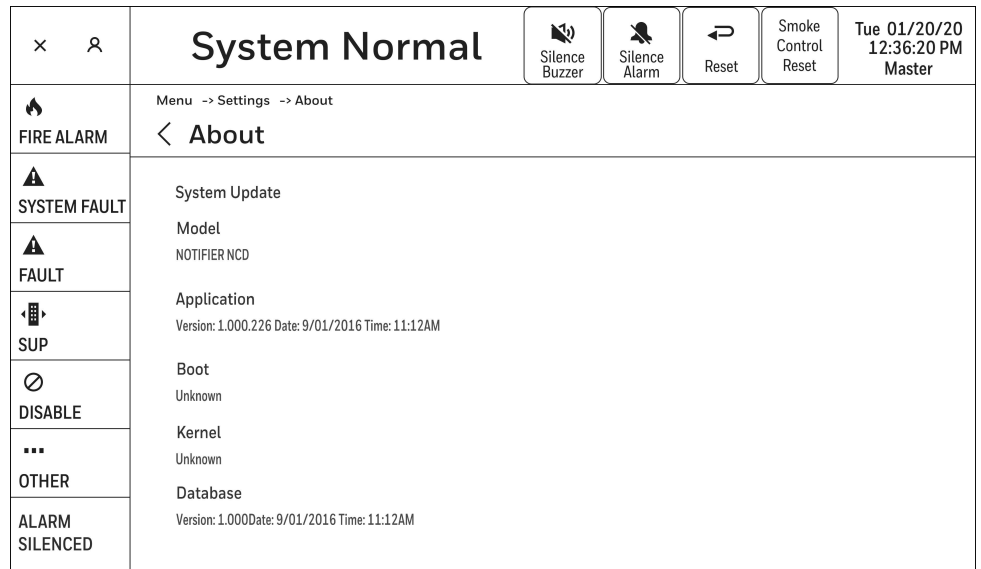


Figure 3.7 About Screen

3.4.2 Programming

Tapping the PROGRAMMING touch point on the menu screen will display the programming options menu.

Network Tap the NETWORK touch point to display the Network options for the NCD.

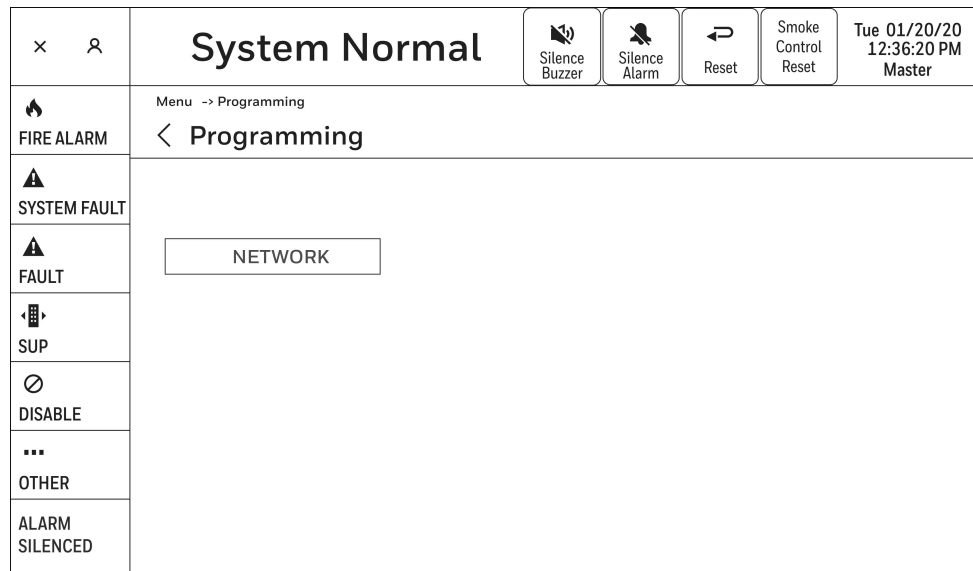


Figure 3.8 Programming Screen

Node Number

Displays the network node number for the NCD. If there is no network, the node number will be zero.

Network Mapping

Displays the network nodes the system is monitoring. See Section 3.4.3 on page 30 for more information on mapping.

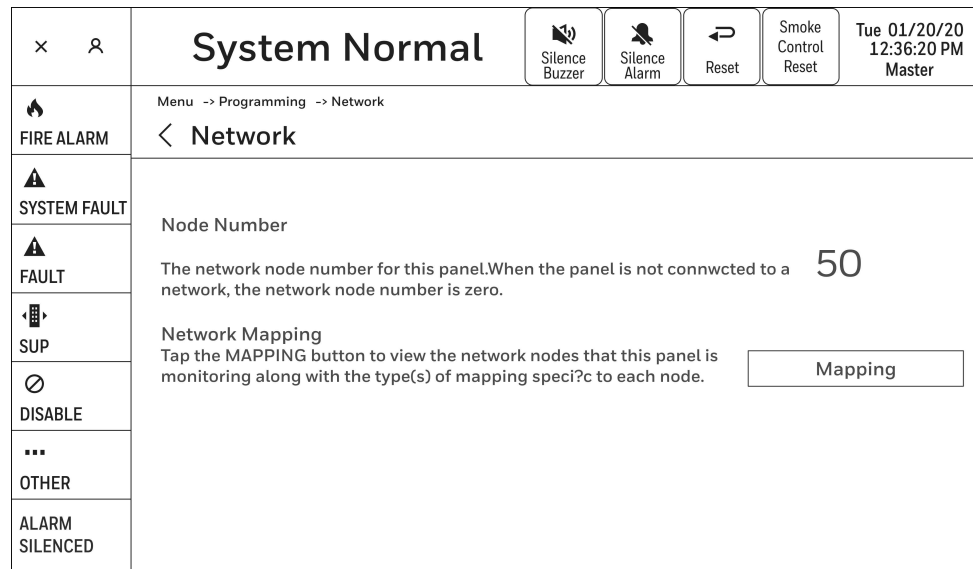


Figure 3.9 Network Screen

3.4.3 Mapping

Tapping the MAPPING touch point on the Network Setting screen will display the Network Mapping options for the NCD.

View Tap the touch point VIEW to display the menu view options for the network nodes connected to the NCD.

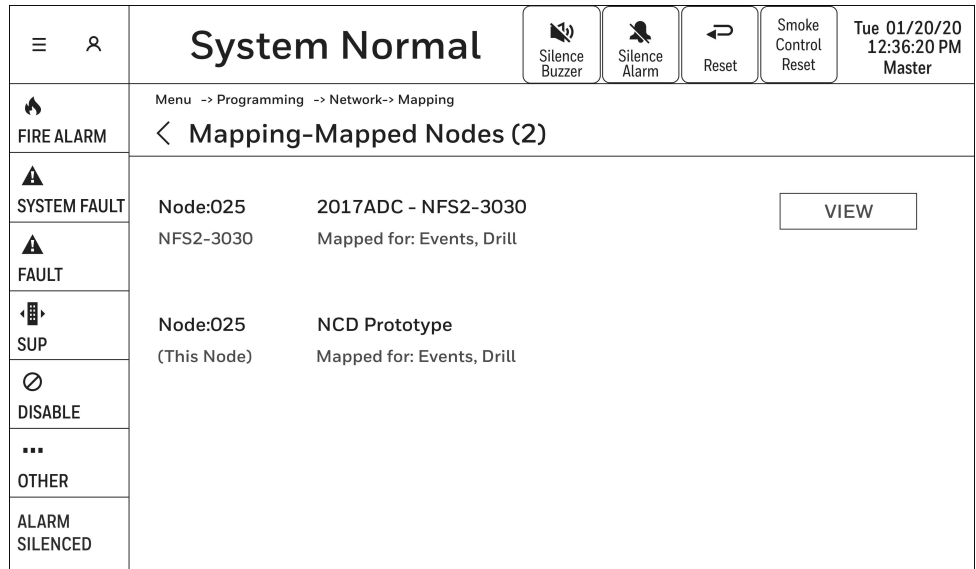


Figure 3.10 Mapping View Screen

All Online Nodes.

Allows the user to view all nodes that are on-line and will indicate whether or not they are mapped nodes. It allows the user to view what panel the node is mapped to, and what node number it is assigned to.

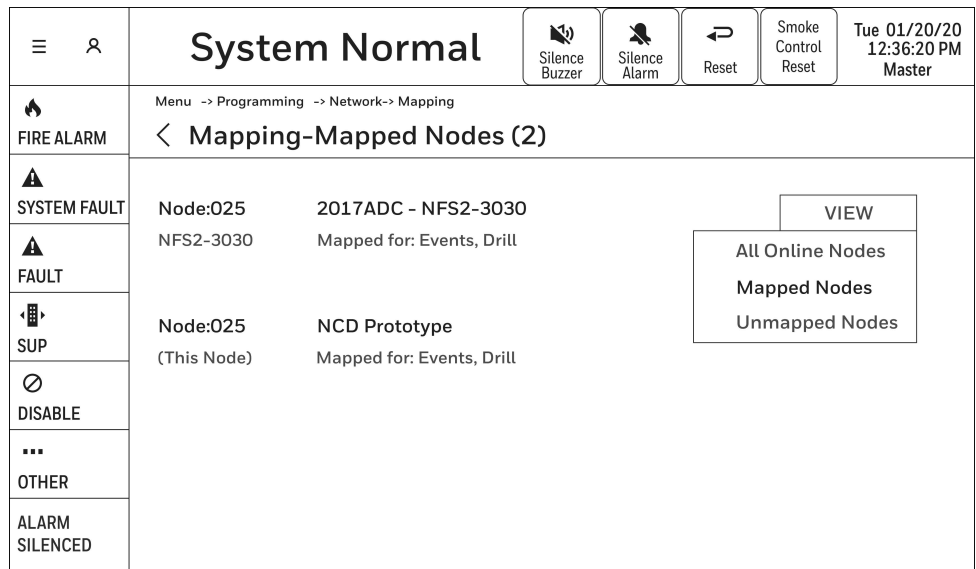


Figure 3.11 Mapping Screen

Grid View Allows the user to view and map networked nodes. If the user is not logged in a popup will appear stating “not authorized”

Mapped Nodes

Allows the user to view all mapped nodes on a system. It will show the node number and what panel it is assigned to.

Unmapped Nodes Allows the user to view all unmapped nodes on a system. It will show the node number and what panel it is assigned to.

NOTE: Power fail node address: Programmable through VeriFire Tools, refer to VeriFire Tools for more information.

		System Normal										Silence Buzzer	Silence Alarm	Reset	Smoke Control Reset	Tue 01/20/20 12:36:20 PM Master
FIRE ALARM		Menu -> Programming -> Network-> Mapping										<input type="radio"/> All Online Nodes <input type="radio"/> Mapped Nodes <input type="radio"/> Unmapped Nodes <input checked="" type="radio"/> Grid View	20	40	60	
SYSTEM FAULT		< Mapping: Grid View 1 2 3 4 5 6 7 8 9 10 11 12 21 22 23 24 25 26 27 28 29 30 31 32 41 42 43 44 45 46 47 48 49 50 51 52														
FAULT		61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80														
SUP		81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100														
DISABLE		101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120														
OTHER		121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140														
ALARM SILENCED		141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160														
		161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180														
		181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200														
		201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220														
		221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240														

Figure 3.12 Grid View Screen

3.5 Test/Diagnostics

Tapping on the Test/Diagnostics touch point on the menu screen will display diagnostic and lamp test options for the NCD.

		System Normal										Silence Buzzer	Silence Alarm	Reset	Smoke Control Reset	Tue 01/20/20 12:36:20 PM Master
FIRE ALARM		Menu -> Test/Diagnostics										<input type="button" value="DIAGNOSTICS"/> <input type="button" value="LAMP TEST"/> <input type="button" value="HISTORY"/>				
SYSTEM FAULT		< Test/Diagnostics														
FAULT																
SUP																
DISABLE																
OTHER																
ALARM SILENCED																

Figure 3.13 Test/Diagnostics Screen

Lamp Test Tap the LAMP TEST touch point to turn on all pixels on the screen. This will illuminate the entire screen as well as the AC Power and System Fault LED for approximately four seconds. During this time a tone will sound. A black spot on the screen will indicate that a pixel is out.

Diagnostics

Tap the DIAGNOSTICS touch point to view the Circuit Board temperature and the CPU temperature. It displays the highest circuit board temperature and the highest CPU temperature, each may be reset by tapping on the RESET touch point.

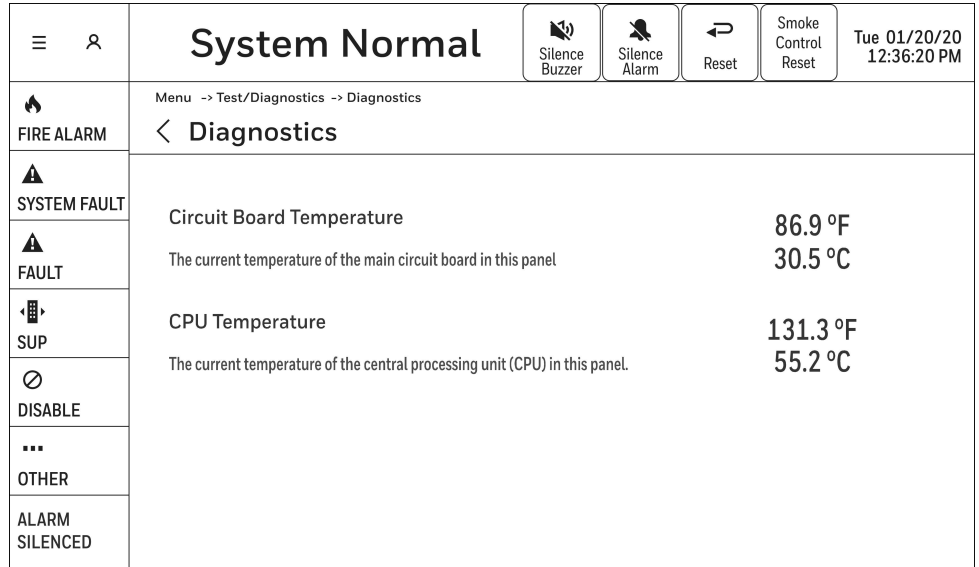


Figure 3.14 Diagnostics Screen

History Tap the HISTORY touch point allows the user to view the panel history as well as the network history. History views may also be filtered. Tap on the touch point FILTER. A touch point for SEARCH and CLEAR will appear along with a virtual keyboard Tap in a date under date range to search a specific date range. Tap in a keyword in the CONTAINS TEXT section to search the history for particular text. To clear a search tap the touch point CLEAR. Tap on the EXCLUDE BACKGROUND ACTIVATIONS check box to select that feature. Tap again to clear the field.

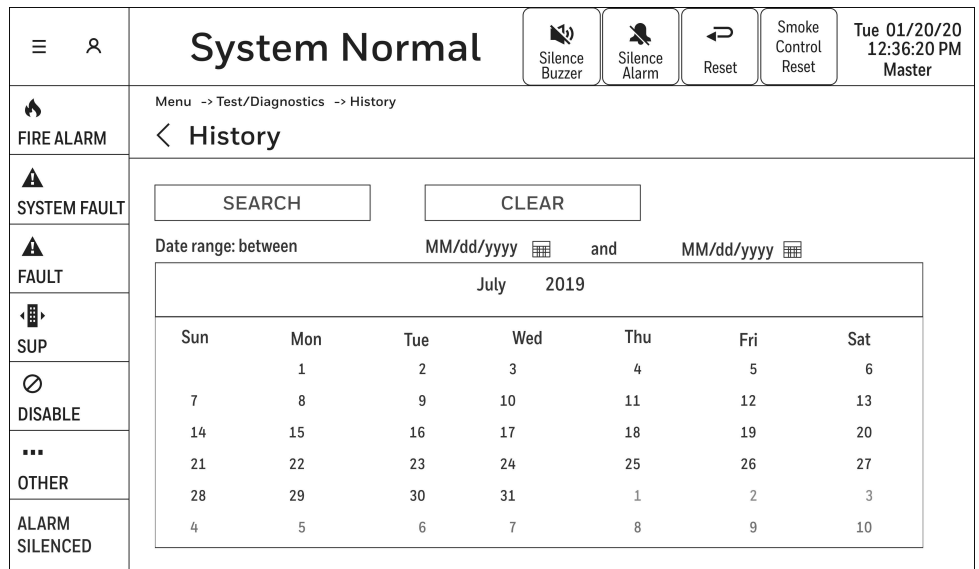


Figure 3.15 History Search Screen

3.6 Service

Service includes Alarm Devices Disable, Alarm Devices Test, Smoke Control Disable, Range Disable and Delays.

☰	🔍	<h1>System Normal</h1>	Silence Buzzer	Silence Alarm	Reset	Smoke Control Reset	Tue 01/20/20 12:36:20 PM Master
FIRE ALARM	Menu -> Service <h2>< Service</h2>						
SYSTEM FAULT	Alarm Devices <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="text-align: center;">0% Fault</div> <div style="text-align: center;">0% Disable</div> <div style="text-align: center;">0% Active</div> <div style="border: 1px solid gray; padding: 2px 5px;">ENABLE</div> <div style="border: 1px solid gray; padding: 2px 5px;">DISABLE</div> <div style="border: 1px solid gray; padding: 2px 5px;">TURN ON</div> <div style="border: 1px solid gray; padding: 2px 5px;">TURN OFF</div> </div>						
FAULT	Smoke Control <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="text-align: center;">0% Disable</div> <div style="text-align: center;">0% Active</div> <div style="border: 1px solid gray; padding: 2px 5px;">ENABLE</div> <div style="border: 1px solid gray; padding: 2px 5px;">DISABLE</div> </div>						
SUP	Range Disable >						
DISABLE	Delays <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="text-align: center;">0% Active</div> <div style="border: 1px solid gray; padding: 2px 5px;">TURN ON</div> <div style="border: 1px solid gray; padding: 2px 5px;">TURN OFF</div> </div>						
...	OTHER						
ALARM SILENCED							

ALARM DEVICES DISABLE - Press this key to disable all devices designated as Alarm Devices on applicable network nodes. When disabled, the Alarm Devices Disable LED will illuminate and the LED next to the Alarm Devices Disable button will illuminate. When disabled, the alarm devices will not report alarm conditions to the fire panel or the NCD. Pressing the Alarm Devices Disable key a second time will re-enable the devices and turn off the Alarm Devices Disable LED. Refer to your fire panel documentation for a list of Alarm Device type codes.

ALARM DEVICES TEST - Press this key to place all devices designated as Alarm Devices on applicable network nodes into test mode. When alarm devices are placed in test, the NCD will display, “Starting Alarm Devices Test”, the LED next to the Alarm Devices Test key will illuminate. When in test, all devices designated as Alarm Devices will either be forced on or set back to automatic. Pressing the Alarm Test Device key again will display, “Stopping Alarm Devices Test” on the NCD, return the Alarm Devices on the network to their original state prior to the test, and turn off the Alarm Test LED.

SMOKE CONTROL DISABLE - Press this key to disable smoke control operation on applicable network nodes.

RANGE DISABLE - Press this key to temporarily disable or bypass the range settings of the detection system.

DELAYS ON/OFF: Press this key to turn on or off the delay output activations on applicable nodes on the network. Delay and duration times are in 24-hour format (HHMMSS); the allowable range is 00:00:00 to 23:59:59.

SILENCE BUZZER - Press this key to acknowledge all events on the network fire panels and silence the local panel buzzer.

RESET - Press this key to perform a system reset or all applicable nodes on the network. This will clear all latched alarms and other events as well as turn off event LEDs. If alarms or other fault events exist after reset, they will resound the system and relight the LEDs. Unacknowledged events will not prevent reset from functioning unless the panel is programmed for Receive Mode.

The SYSTEM RESET key will not function if the programmable Silence Inhibit Timer is running. The System Reset key will not immediately silence active outputs on the network. If the Control-by-event programming conditions for the output are not met after reset, the output will deactivate. (Typically 60 seconds network.)

If both Fire and Mass Notification events exist on the fire panel at the same time, a second System Reset will need to be performed to reset the fire panel. The NCA-2 will display MN SYSTEM RESET or FIRE SYSTEM RESET, depending on which event has priority.

SMOKE CONTROL RESET - Press this key to reset any latching smoke control devices on applicable network nodes.

3.7 Custom Actions

Custom Actions are virtual buttons that can be mapped and employed to manually control common system commands such as enable/disable points. Custom Actions are completely programmable and can be user defined within VeriFire Tools.

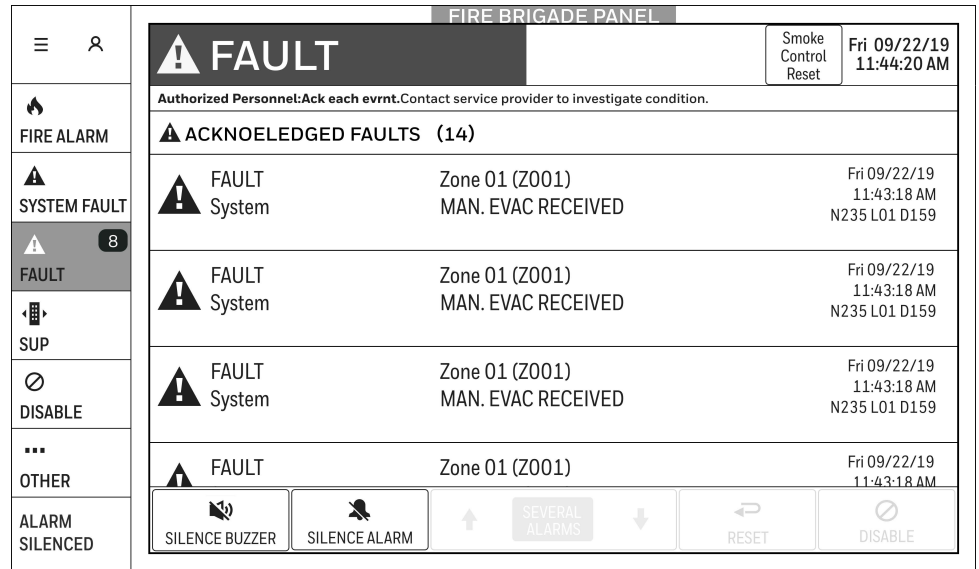


Figure 3.16 Fault Screen

Disable Points/Functions To disable a group of points, special functions, or zones tap on the touch point CUSTOM ACTIONS, select the point to disable and tap on the touch point DIS-ABLE. The ENABLE touch point will be grayed out if the point is enabled.

Enable Points/Functions To enable a group of points, special functions or zones from the main menu tap on the touch point CUSTOM ACTIONS, select the group of points to enable and tap on touch point ENABLE. The DISABLE touch point will be grayed out if the group of points is disabled and there will be a trouble message on the panel stating which point is disabled.

Turn ON/OFF points To turn ON or OFF a group of points from the main menu tap on the touch point CUSTOM ACTIONS, select the point to turn ON/OFF and tap on either TURN ON or TURN OFF. If the point is grayed out the point is OFF.

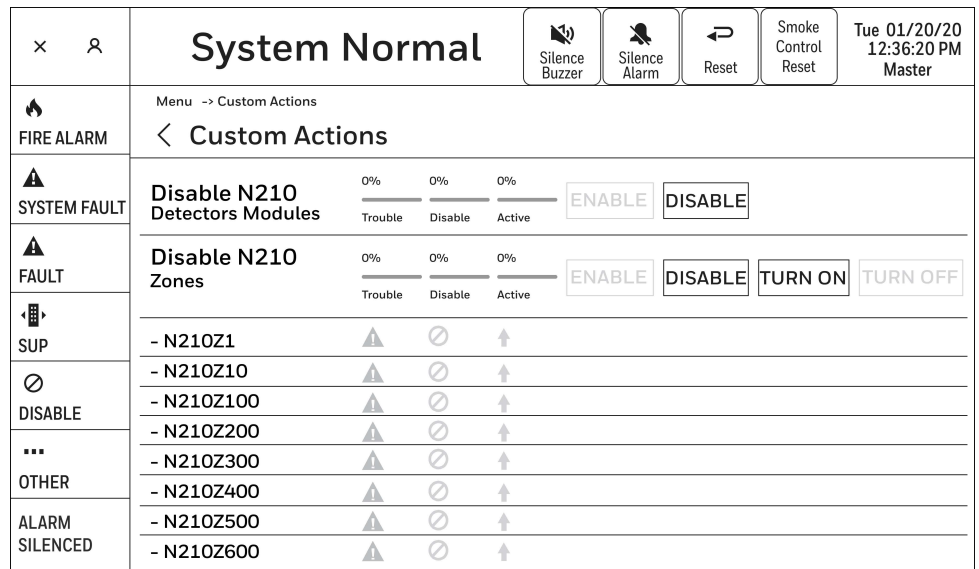









Figure 3.17 Custom Actions Screen



NOTE: The maximum number of actions that can be preformed at one time is eight (8)

Section 4: Operation

This section describes the NCD operation and how events are portrayed.

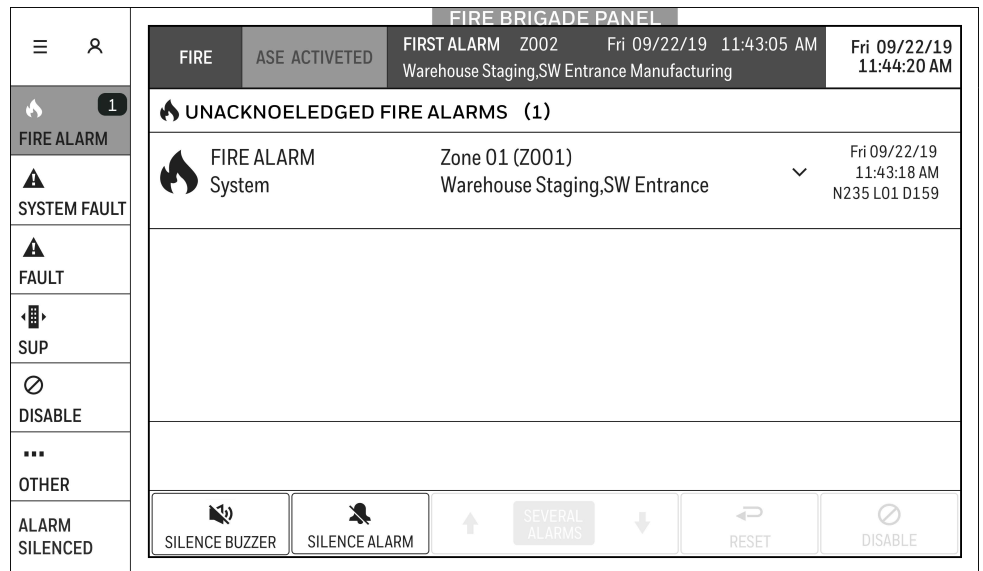
EVENT	SYMBOL	DISPLAY INDICATION
FIRE ALARM		Fire Alarm is indicated in RED
SYSTEM FAULT		System fault is indicated in YELLOW
FAULT		Fault is indicated in YELLOW
SUP		Supervisory is indicated in YELLOW
DISABLE		Disable is indicated in YELLOW
OTHER		Other is indicated as the highest priority that is not categorized.
ALARM SILENCED		Indication for alarm silenced?

4.1 Fire Alarm

An active FIRE ALARM will display as follows on the NCD:

- Produce a steady audible tone
- The first fire alarm appears in the Header Bar as **FIRST ALARM**.
- FIRE ALARM illuminates in the Alert Bar as a red color indicator and provides fire event counts
- Illuminates the yellow System Fault Event LED
- Displays FIRE ALARM and specific device information in the Events List
- Displays information on how to react to the event in the Instructional Text Area
- Latching events must be corrected and a Reset performed to clear the alarm state from the NCD

Table 4.1 Event Symbols














FIRE BRIGADE PANEL			
FIRE	ASE ACTIVATED	FIRST ALARM Z002 Fri 09/22/19 11:43:05 AM	Fri 09/22/19 11:44:20 AM
Warehouse Staging, SW Entrance Manufacturing			
UNACKNOELEDGED FIRE ALARMS (1)			
	FIRE ALARM System	Zone 01 (Z001) Warehouse Staging, SW Entrance	Fri 09/22/19 11:43:18 AM N235 L01 D159
	SYSTEM FAULT		
	FAULT		
	SUP		
	DISABLE		
	OTHER		
	ALARM SILENCED		
			
SILENCE BUZZER	SILENCE ALARM	SEVERAL ALARMS	RESET
			DISABLE

Figure 4.1 Fire Alarm Event Screen

4.1.1 Responding to a Fire Alarm

To acknowledge the event and silence the NCD sounder, do the following:

- The Informational Text Area on the screen will indicate step by step how to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- Tap on the SILENCE touch point located in the Header Bar. The SILENCE icon in the Alert Bar will illuminate blue once the NCD has silenced and all silenceable outputs will turn off.
- Investigate and correct the condition that activated the Fire Alarm.
- Once the NCD has been silenced the blue highlight indicator will move from the SILENCE touch point to the RESET touch point.
- Tap the RESET touch point located in the Header Bar to return the NCD to normal operations.

4.2 System Fault

An active System Fault will display as follows on the NCD:

- Produces a pulsed audible tone.
- SYSTEM FAULT appears in the Header Bar.
- System fault illuminates in the Alert Bar as a yellow color indicator and provides system fault event counts.
- Illuminates the yellow System Fault LED.
- Displays system fault and specific device information in the Events List.
- Displays information on how to react to the event in the Instructional Text Area.
- Latches the NCD in System Fault.

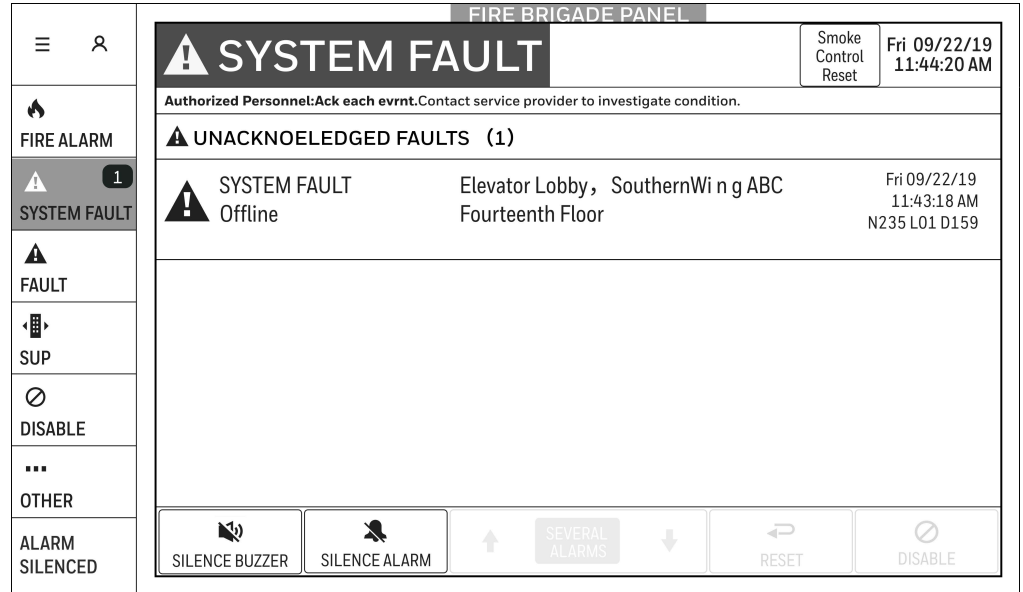


Figure 4.2 System Fault Event Screen

4.2.1 Responding to a System Fault

To acknowledge the event and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- Block Acknowledge allows for multiple events to be acknowledged at once.
- Tap on the SILENCE touch point located in the Header Bar. The SILENCE icon in the Alert Bar will illuminate blue once the NCD is silenced all silenceable outputs will turn off.
- Investigate and correct the condition that activated the System Fault point.
- Once all events on the NCD have been silenced the blue highlight indicator will move from the SILENCE touch point to the RESET touch point.
- Tap the RESET touch point located in the Header Bar to return the NCD to normal operations.

4.3 Fault

An active Fault will display as follows on the NCD:

- Produces a pulsed audible tone.
- FAULT appears in the Header Bar.
- Fault illuminates in the Alert Bar as a yellow color indicator and provides fault event counts.
- Illuminates the yellow System Fault LED.
- Displays fault and specific device information in the Events List.
- Displays information on how to react to the event in the Instructional Text Area.
- Latches the NCD in Fault.

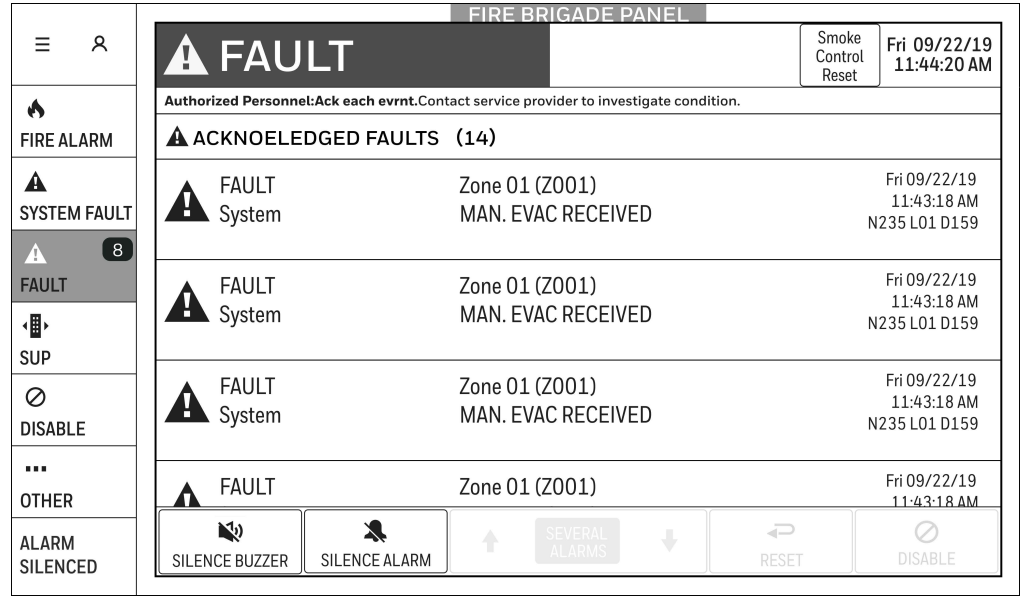


Figure 4.3 Fault Event Screen

4.3.1 Responding to a Fault

To acknowledge the event and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- Block Acknowledge allows for multiple events to be acknowledged at once.
- Tap on the SILENCE touch point located in the Header Bar. The SILENCE icon in the Alert Bar will illuminate blue once the NCD is silenced all silenceable outputs will turn off.
- Investigate and correct the condition that activated the Fault point.
- Once all events on the NCD have been silenced the blue highlight indicator will move from the SILENCE touch point to the RESET touch point.
- Tap the RESET touch point located in the Header Bar to return the NCD to normal operations.

4.4 Supervisory Activation

A Supervisory activation will display as follows on the NCD.

- Produces a warbling audible tone.
- SUPERVISORY appears in the Header Bar.
- SUPERVISORY illuminates on the Alert Bar as a yellow color indicator and provides Supervisory event counts.
- Illuminates the yellow System Fault LED.
- Displays SUPERVISORY and specific device information in the Events List.
- Displays information on how to react to the event in the Instructional Text Area.

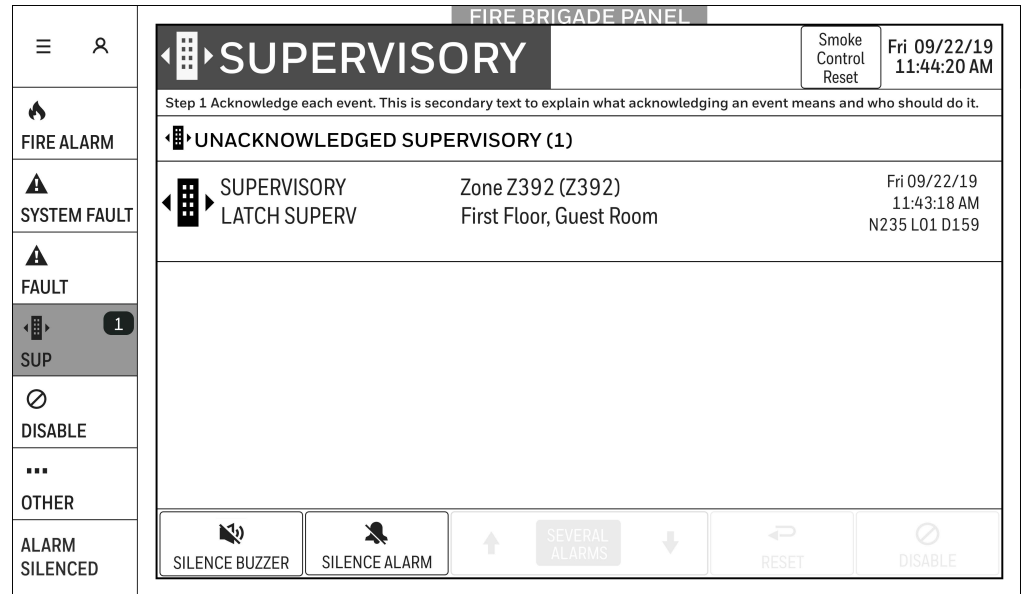


Figure 4.4 Supervisory Event Screen

4.4.1 Responding to a Supervisory Activation

To acknowledge the event and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- Tap on the SILENCE touch point located in the Header Bar. The SILENCE icon in the Alert Bar will illuminate blue once the NCD is silenced. All silenceable will turn off.
- BLOCK ACKNOWLEDGE allows for multiple events to be acknowledged at once.
- Investigate and correct the condition that activated the Supervisory point.
- Once all the events have been acknowledged the blue highlight indicator will move from the ACKNOWLEDGE touch point to the SILENCE touch point.
- For a non- latching event, the NCD will return to normal once the supervisory condition is corrected.
- For a latching event, tap on the RESET touch point located in the Header Bar to return the NCD to normal.

4.5 DISABLE

When a system point is disabled it will display as follows on the NCD:

- Produces a pulsed audible sound.
- Turns on the fault Relay.
- DISABLED appears in the Header Bar.
- DISABLED illuminates in the Alert Bar as a yellow icon and indicated device event count.
- Illuminates the yellow System Fault LED.
- Displays DISABLED and specific point information in the Screen Area.
- Displays information on how to react to the event in the Informational Text Area.

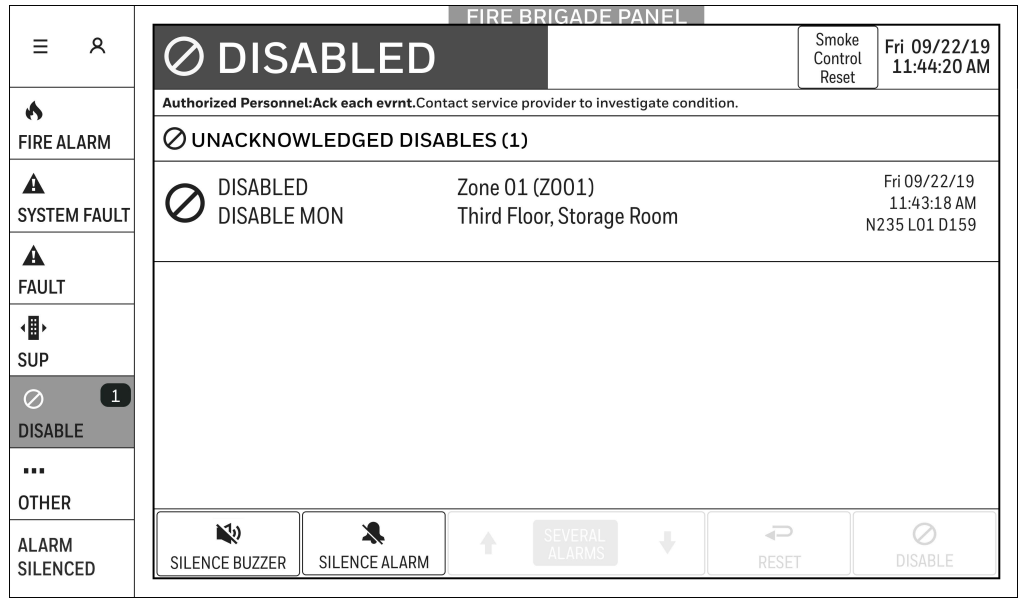


Figure 4.5 Disabled Screen



NOTE: If an unacknowledged, higher priority event exists, the NCD will retain the indications of the higher priority event, such as the LED, audible tone, etc. The Trouble Relay, flashing event LED will still react at the time of the event

4.5.1 Responding to a Disabled Point

To acknowledge the disabled point and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- BLOCK ACKNOWLEDGE allows for multiple events to be acknowledged at once.
- Enable the disabled point.

4.6 Other: Events that are listed as Other are as follows:

Events listed as Other are as follows:

- Pre-Alarm (red).
- Hazard/Weather Alert (Yellow).

When more than one of these conditions have been activated they will be listed in order of priority.

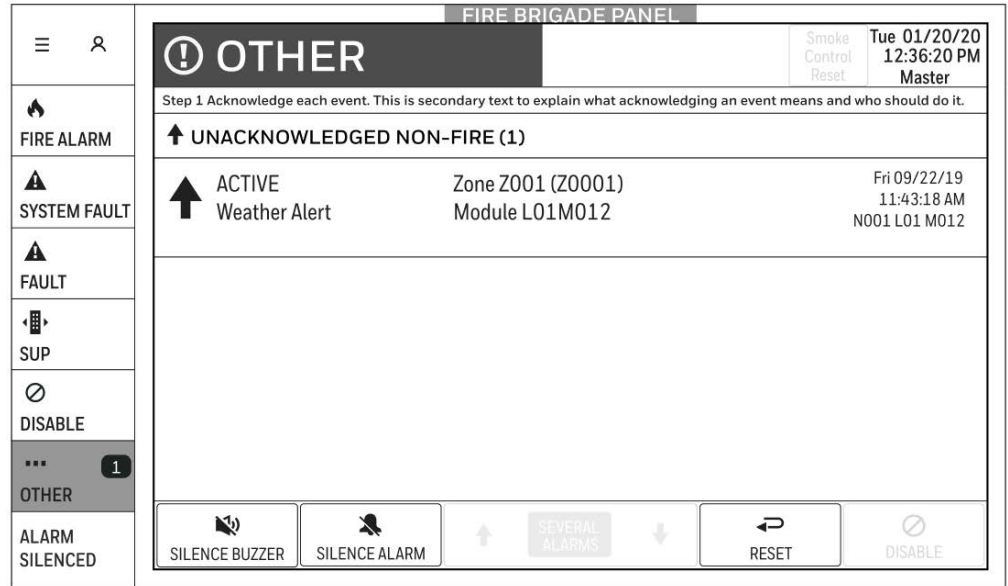


Figure 4.6 Other Event Screen

4.6.1 Responding to an Other event.

To acknowledge an Other event and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- BLOCK ACKNOWLEDGE allows for multiple events to be acknowledged at once.
- Tap on the SILENCE touch point located in the Header Bar. The SILENCE icon in the Alert Bar will illuminate blue once the NCD is silenced.
- Once all the events have been acknowledged the blue highlight indicator will move from the ACKNOWLEDGE touch point to the SILENCE touch point.
- Tap RESET for an latched event.

4.7 Alarm Silenced

When a device alarm is silenced, it will display as follows on the NCD:

- Alarm Silenced illuminates in the Alert Bar as a yellow icon and indicated device event count.

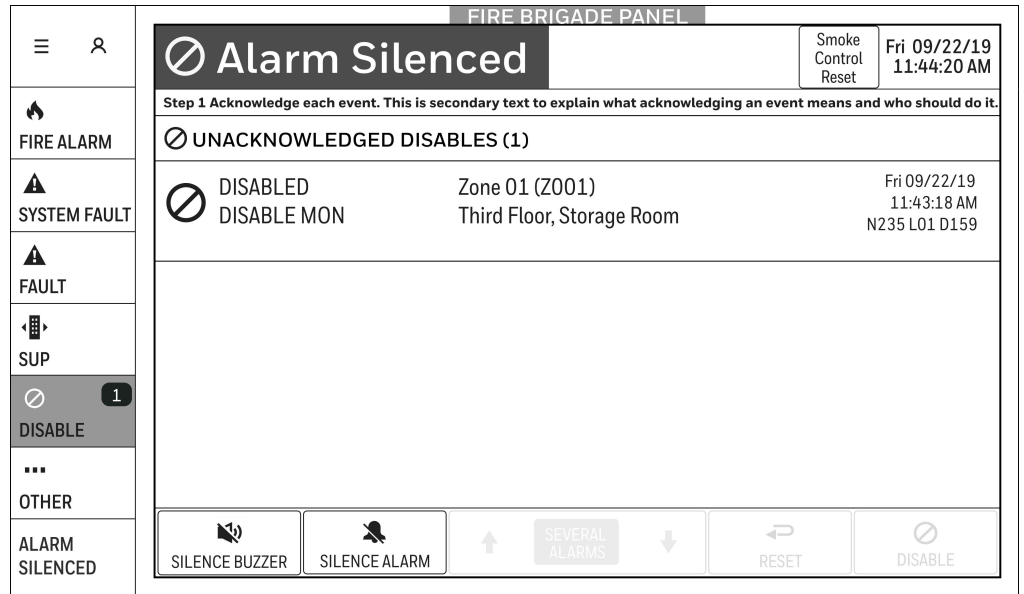


Figure 4.7 Silenced Alarm



NOTE: If an unacknowledged, higher priority event exists, the NCD will retain the indications of the higher priority event, such as the LED, audible tone, etc. The Trouble Relay, flashing event LED will still react at the time of the event

4.7.1 Responding to a Silenced Alarm

To acknowledge the disabled point and silence the NCD sounder do the following:

- The Informational Text Area on the screen will indicate step by step what needs to be done to acknowledge and silence the event.
- Tap on the SILENCE BUZZER to acknowledge all events on the panel and silence the panel buzzer.
- BLOCK ACKNOWLEDGE allows for multiple events to be acknowledged at once.
- Enable the disabled point.

Notes

Notes

Notes

NCD Operating Instructions

Section 1 Operating Information

Normal Standby Operation.

1. System Normal indicated on the Header Bar.
2. Green POWER LED lit steadily.
3. No Red FIRE ALARM indication.
4. No Blue CO ALARM indication.
5. No Yellow SUPERVISORY, TROUBLE, DISABLE, OTHER or SIGNALS SILENCED indications.
6. System Fault LED off

Alarm Condition.

1. Red FIRE ALARM, Blue CO ALARM, and/or Yellow OTHER indication(s) on the touch screen display.
2. Alarm signaling devices activated.
3. Alarm information is visible on the touch screen display
4. System Fault LED illuminated

Pre-Alarm Condition.

Alarm Reset. After locating and correcting the alarm condition, reset the control panel by tapping the RESET touch point.

Trouble Condition. Activation of trouble signal under normal operation indicates a condition that requires **immediate** attention. Contact your local service representative. Silence the audible signal by tapping the ACK touch point. The trouble indication will remain on the NCD until the trouble is cleared.

Section 2 NCD Touch Point Functions

ACK (ACKNOWLEDGE). This silences the piezo sounder, steadies the flashing event on the header bars, and changes each condition to Acknowledged. If more than one event exists, it advances the display to the next item and displays it until ACKNOWLEDGE is tapped again. Only one tap is necessary for non-fire, trouble, or supervisory signals. Fire alarms require one tap for each activation.

SILENCE. The SILENCE touch point turns off all silenceable circuits and illuminates the SIGNALS SILENCED indicator on the Alert Bar. A subsequent alarm will then resound the system.

RESET. Resets the NCD in standalone applications. Resets the associated panel when enabled in network applications.

LAMP TEST. A Lamp Test can be performed via the Test/Diagnostics option on the NCD. Press the Menu option and select Test/Diagnostics. Tap the LAMP TEST touch point to turn on all pixels on the screen, sound the piezo, and illuminate the Power and System Fault Event LEDs for four (4) seconds.

Section 3 Event Indicators

Fire Alarm. Red indication on the Alert Bar and flashes on the Header Bar when one or more alarms occur. Illuminates steadily after alarms are acknowledged, and turns off when RESET is pressed after the alarm(s) clear.

CO Alarm. Blue indication on the Alert Bar and flashes on the Header Bar for a CO alarm. Illuminates steadily after alarms are acknowledged, and turns off when RESET is pressed after the alarm(s) clear.

Supervisory. Yellow Indication that flashes on the Alert Bar when a Supervisory or Tamper condition occurs, such as a sprinkler valve tamper condition. The indication illuminates steady after conditions are

acknowledged, and turns off when the conditions are cleared. A Tamper indication will latch until RESET is pushed. RESET is required for any latched event.

Security. A blue indication on the Alert Bar and flashes on Header Bar when a security activation occurs. Illuminates steadily after acknowledge is pressed, and turns off when the security activation is cleared. RESET is required for any latched event.

Trouble. Yellow indication on the Alert Bar and flashes on the Header Bar when one or more troubles occur. Illuminates steadily when ACKNOWLEDGE is pressed, and turns off when all trouble conditions are cleared.

Disable. Yellow indication on the Alert Bar and flashes on the Header Bar when one or more points are disabled. The display will indicate which points have been disabled. Turns off when points are re-enabled.

Other Event. Yellow indication that flashes on the Alert Bar when a Critical Process or Hazard /Weather Alert occurs. When a CO Pre-alarm occurs, indication flashes blue, and a Pre-alarm indication will flash red. Illuminates steady when Acknowledge is pressed, and turns off when the condition is cleared.

Signals Silenced. Yellow indication that illuminates after SIGNALS SILENCED has been pressed. Turns off when RESET is pressed.

Section 4 LED Indicators

Power. Green LED which illuminates when primary power is applied to the NCD.

System Fault. Yellow LED which illuminates when any System Fault event is present on the NCD.

Section 5 NCD Audible Sounder

Alarm. A continuous sounding tone.

Trouble, Disable, Pre-alarm. One beep per second.

CO-Alarm. Four beeps per second.

Supervisory. Four beeps per second.

Security. Eight beeps per second.

Other Event. Four beeps per second.

Section 6 Periodic Testing and Maintenance

To ensure proper and reliable operation, system inspection and testing should be scheduled monthly, or as required by NFPA 72 or local fire codes. A qualified Service Representative should perform testing.

Before Testing: Notify fire department if alarm condition is transmitted. Notify facility personnel of the test so alarm sounding devices are ignored during the test period.

After Testing: Notify all fire, and/or building personnel

when testing is complete. *Re-connect releasing devices.*

Section 7 Local Service Representative:

NAME: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

Cut along dotted line.

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