

UniNet™ 2000

NION-MXL Instruction Manual

Version 2

NION-MXL

Document 52017	Rev A
10/10/02	
52017:A	ECN 02-232



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Fire Alarm System Limitations

While a fire alarm system may lower insurance rates, it is not a substitute for fire 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 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.

The Manufacturer recommends that smoke and/or heat detectors be located throughout a protected premise 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. 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, or chimneys 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.
- 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, crippling its ability to report a fire.

Audible warning devices such as bells 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:

- 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 or comprehend the meaning of the signal. It is the property owner's responsibility to conduct fire drills and other training exercise 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 fire alarm 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. It is essential to use only equipment listed for service with your control panel.

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 radio transmission systems are recommended.

The most common cause of fire alarm malfunction is inadequate maintenance. To keep the entire fire alarm 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 Chapter 7 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 monthly or as required by National and/or local fire codes and should be performed by authorized professional fire alarm 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 this manual is read and understood.

CAUTION - *System Reacceptance Test after Software Changes.* To ensure proper system operation, this product must be tested in accordance with NFPA 72 Chapter 7 after any programming operation or change in site-specific software. Reacceptance 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 of 85% RH - 93% per ULC - (non-condensing) at 30° C/86° 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 all peripherals be installed in an environment with a nominal 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 interferences, 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, and printed circuit board location.

Do not tighten screw terminals more than 9 in-lbs.

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

Though designed to last many years, system components can fail at any time. 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 by authorized personnel.

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 device pursuant to Subpart B of Part 15 of FCC Rules, which is designed to provide reasonable protection against such interference when 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 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 présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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Foreword

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.

This equipment has been designed to comply with standards set forth by the following regulatory agencies:

Underwriters Laboratories U.S. Documents

- UL-864 Control Units for Fire Protective Signaling Systems.
- UL-1076 Proprietary Burglar Alarm Units and Systems.
- UL-294 Access Control System Units.

Underwriters Laboratories Canada Documents

- CAN/ULC-S524-M91 Standard for Installation of Fire Alarm Systems.
- CAN/ULC-S527-M99 Standard for Control Units for Fire Alarm Systems.NFPA Standards
- National Fire Protection Association Standards 72.
- National Electric Code (NFPA 70).
- Life Safety Code (NFPA 101).

Other

- Requirements of the Local Authority Having Jurisdiction (LAHJ).

WARNING: Improper installation, maintenance, and lack of routine testing could result in system malfunction.

Introduction

The NION-MXL is a plug-in component of the UniNet Workstation. It allows a workstation to view events and other data originating from an MXL panel.

This system is suitable for proprietary systems listed under:

- NFPA 72-1993 Proprietary Service.

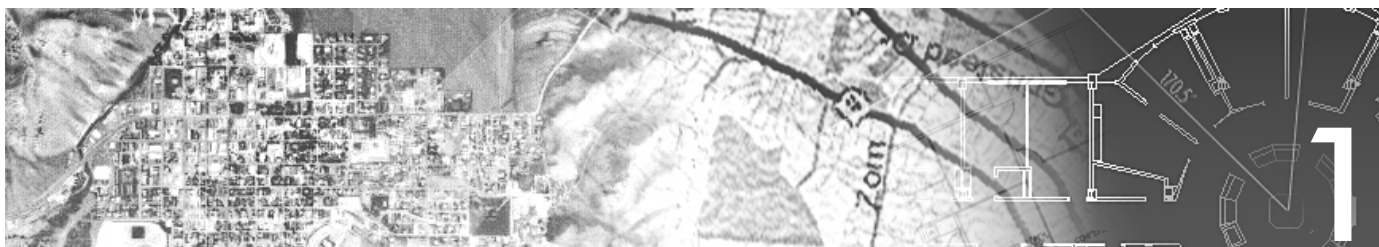
UniNet™ consists of graphical workstations monitoring and controlling local or remote twisted pair or fiber optic networks. Remote network monitoring is achieved through the use of a Building Communications Interface (BCI), which has a maximum capacity of 32 nodes. Each Local Area Server (LAS) has a maximum capacity of 200 nodes, using twisted pair or fiber-optic cabling. A twisted pair network topology (FT-10) may be a maximum length of 6000 feet per network segment with no T-taps, allowing communications between 64 nodes in each segment. In addition, FT-10 allows dedicated runs of 8000 feet point-to-point or multiple T-taps within 1500 feet of any other node on the segment. Fiber-optic cable runs can be configured in either a bus or ring topology with up to 8db of attenuation between nodes. The network is supervised for shorts, opens and node failures as dictated in Style 4 wiring.

The network power is 24 VDC nominal and receives operating power from a power limited, filtered source listed for use with fire protective signaling units.

Network Installation Manual	51539	UniLogic	51547
Workstation	51540	AM2020/AFP1010 Instruction Manual	52020
System Utilities	51592	UniTour	51550
BCI ver. 3-3	51543	IRM/IM	51591
Local Area Server	51544	UniNet Online	51994

Related Documentation

Document 52017 NION-MXL Instruction Manual Rev. A 10/10/02



Section 1: Description and Installation

1.1 General Description

The NION-MXL interfaces to a Pyrotechnics MXL control panel to provide monitoring and control of the FACP to a UniNet™ 2000 network. The NION is based on the NION-232B motherboard hardware and communicates with the FACP via the EIA-232 connection.

1.2 Description of the Serial NION-232B

The Serial NION-232B (Network Input Output Node) is an EIA-232 interface used with UniNet™ 2000. All of the UniNet™ 2000 system components are based on LonWorks™ (Local Operating Network) technologies. The Serial NION-232B provides transparent or interpreted communications between the workstation and control panels. Unless otherwise noted, Acknowledge, Silence, and Reset are available for each interface. Check specific connections for details.

The NION connects a LonWorks™ FT-10 or fiber network, and the EIA-232 port of control panels. It provides a single, two-way communication channel for EIA-232 serial data when connected to a control panel. NIONs are specific to the type of network to which they connect (FT-10 or fiber). The transceiver type must be specified and ordered separately when ordering the NION. For information regarding network transceivers see the 51539 Network Installation manual section 1.1.3.

The NION can be powered by any power limited, filtered source with battery backup which is UL or ULC listed, as appropriate for your area, for use with fire protective signaling units.

The NION mounts in an enclosure (NISCAB-1 or CHS-4L in CAB-3 series enclosure) with conduit knockouts.

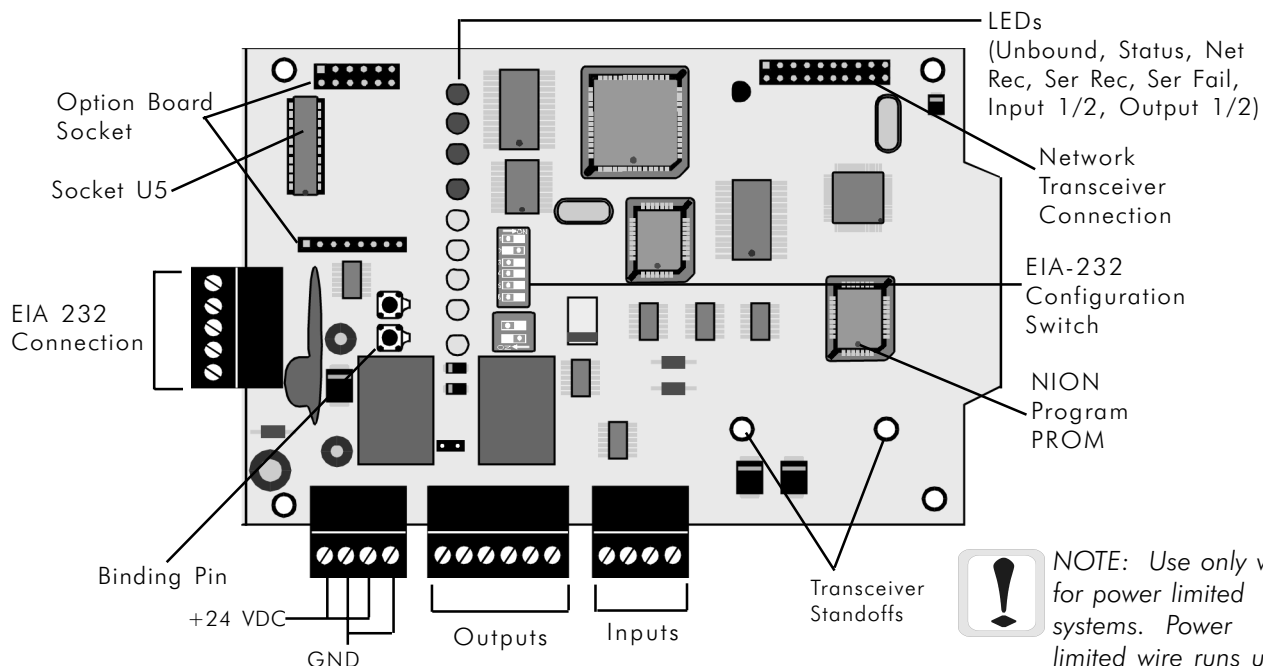


Figure 1-1: NION-232B Board Layout

1.3 Required Components

The NION-MXL requires the following equipment:

- NION-232B
- SMX Transceiver (S7FTXC,FTXC, FOXC or DFXC)
- Software kit for NION-MXL interface
- Enclosure (NISCAB-1)

The following paragraphs describe all required and optional components used to assemble a functional NION-MXL. All of the items described must be ordered separately.

1.4 Site Requirements

The NION-232B can be installed in the following environmental conditions:

- Temperature range of 0°C to 49°C (32°F - 120°F).
- 93% humidity non-condensing at 30°C (86°F).

1.5 Cabinet Installation

The NION-232B is designed to be installed on a wall within 20 feet of the control panel in the same room. The type of hardware used is at the discretion of the installer, but must be in accordance with local code requirements

NISCAB-1 Installation

The NION-232B may be mounted stand-alone in a single node enclosure, the NISCAB-1, where power is supplied by the monitored equipment or an external source. This enclosure is provided with door and key lock.

Mounting the enclosure to its wall position

- 1) Use the provided key to unlock the enclosure cover.
- 2) Remove the enclosure cover.
- 3) Mount the enclosure to the wall. Refer to the enclosure mounting hole layout below.

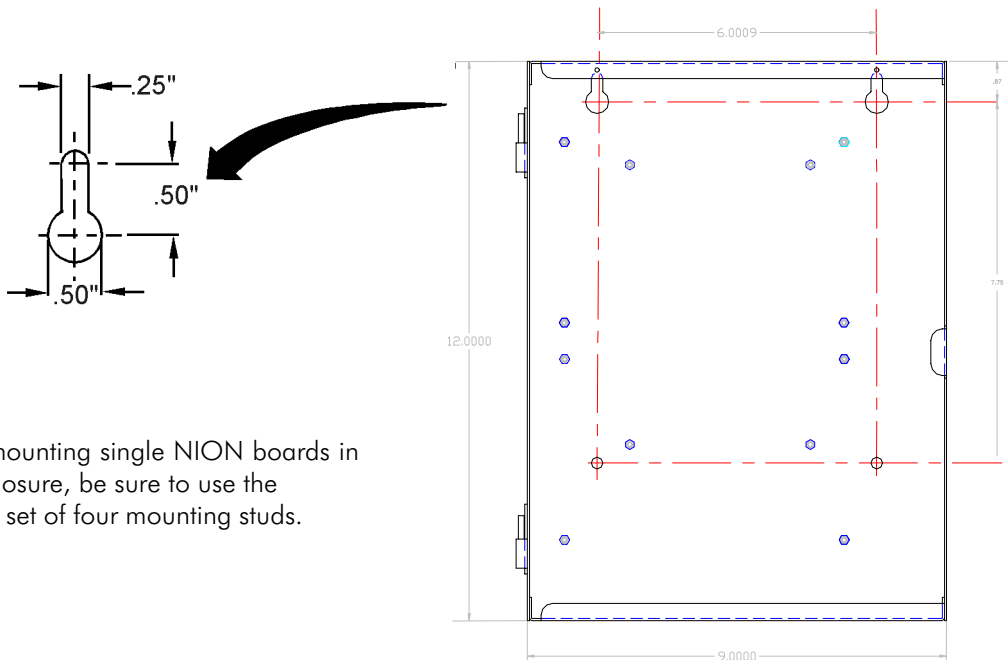


Figure 1-2: NION Stand-Alone Enclosure Mounting Hole Layout

1.6 Serial Communication Description

The baud rate, parity and data bits of the NION-232B must be equal to those of the EIA-232 serial port of the control panel. The NION-232B settings must be configured in the field for the application it was ordered to fill. These settings are made on switch S2.

If it becomes necessary to change any of these settings, use the chart below:

Baud Rate	Switch Position 4	Switch Position 5	Switch Position 6
600	Off	On	On
1200	On	Off	On
* 2400	Off	Off	On
4800	On	On	Off
9600	Off	On	Off

* Most NOTIFIER® equipment operates at 2400 baud. The AFC 600 operates at 9600 baud.

Parity	Switch Position 2	Switch Position 3
None	On	On
Odd	On	Off
Even	Off	Off

Data Bits	Switch Position 1
8	On
7	Off

Figure 1-3: Switch S2 Settings for the NION-232B EIA-232 Configuration



NOTE: If the device connected to the NION calls for 9 data bits, then the NION must be set to 8 data bits with either Even or Odd parity.

1.7 NION Power Requirements/Connection

The NION-232B requires +24VDC +/- 10% @ 0.080 A nominal and battery backup in accordance with local code requirements. It can be powered by any power limited, filtered source with battery backup which is UL or ULC listed, as appropriate for your area, for use with fire protective signaling units. All connections must be within 20ft of the NION and run in conduit.

The NION-MXL connects to a +24VDC power supply via its TB4 connector. See Figure 2-1 for more details on making power connections.



NOTES: It is recommended that the installer conform to local code requirements when installing all wiring. All power connections must be non-resettable. Refer to the current NOTIFIER® catalog for specific part numbers and ordering information for each NION. Always remove power from the NION before making any changes to switch settings and removing or installing option modules, SMX network modules and software upgrade chips or damage may result. Always observe ESD protection procedures.

1.8 NION-232B Operation

NION-232B LEDs

Five LEDs on the mother board of the NION-232B provide information about module operation. The table below explains the possible conditions.

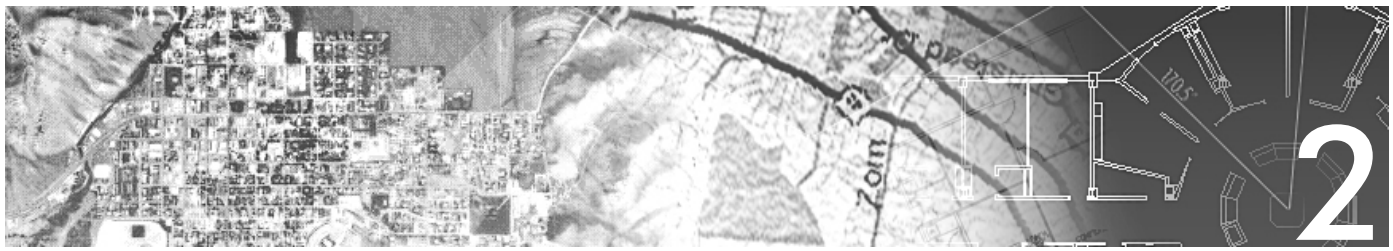
LED	Color	Description
Status	Green	This LED provides information on network communication and node binding by one of the three modes listed below: On or Off solid - NION is not bound. Flashing slow - NION is bound and communicating. Flashing fast - NION is bound but not communicating or the packet was lost.
Unbound	Yellow	This LED provides information on node binding by one of the three modes listed below: Off - NION is bound. Flashing - NION is not bound. Solid - NION is in a fault condition or the PROM chip is not installed.
Net Receive	Green	Flashes once when receiving a message from the Echelon network.
Serial Receive	Green	Flashes once when receiving an event message from the fire panel.
Serial Fail	Yellow	This LED provides information on serial communication by the two modes listed below (unless otherwise noted for a specific interface): On - Serial communication failure with the attached fire panel. Off - Serial communication is OK.



NOTE: Refer to Figure 1-1: NION-232B Board Layout for the position of each of the LEDs listed above.

Figure 1-4: NION-232B LED Status Information





Section 2: NION-MXL Configuration

2.1 Serial Connections with the MXL Control Panel

The NION-MXL must be connected to the EIA-232 port of a Pyrotechnics PIM-1 Peripheral Interface Module installed with the MXL Control panel. Jumper G1 on the PIM-1 module must be closed. For specific connections, refer to Figure 2-1. EIA-232 settings are: Baud Rate - 9600, Data Bits - 8, Stop Bits - 1, Parity - None.

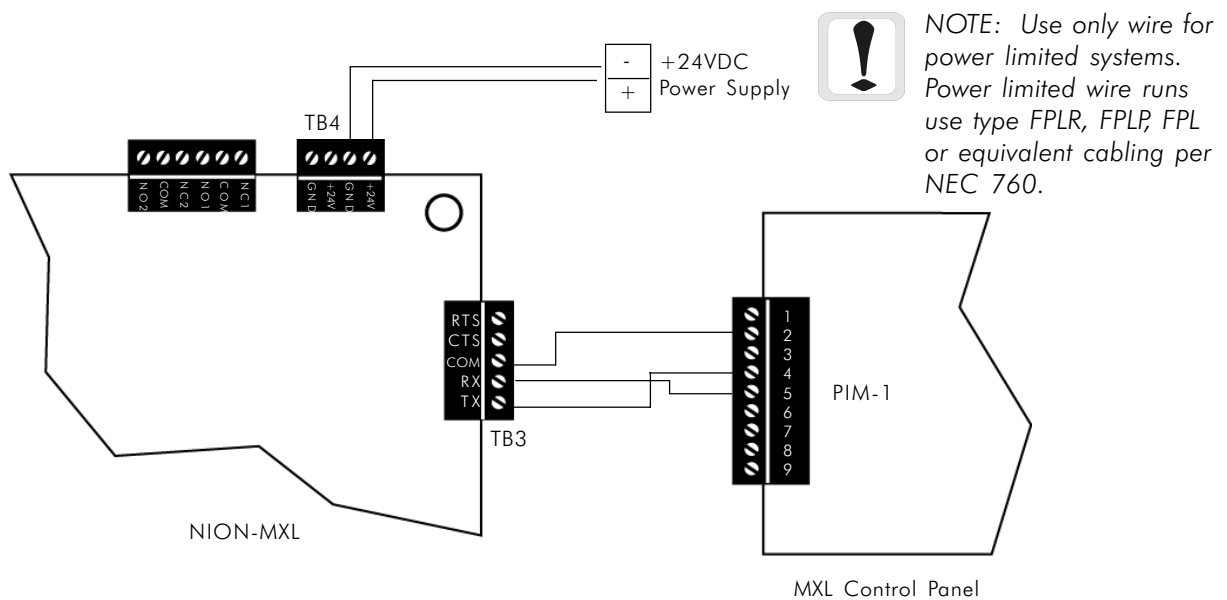
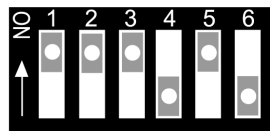


Figure 2-1: NION-MXL Wiring Diagram

2.2 Serial Communication DIP Switch Configuration

The baud rate, parity and data bits of the NION-232B must be equal to those of the RS-232 serial port of the control panel. The NION-232B settings must be configured in the field for the application it was ordered to fill. These settings are made on switch S2.

If it becomes necessary to change any of these settings, use the figure below:



NOTE: The above DIP switch settings are for the MXL interface and correspond to 9600 baud, 8 data bits, 1 stop bit, and no parity.

Figure 2-2: Switch S2 Settings for the NION-232B RS-232 Configuration

2.3 Configuring the MXL Panel for Communications

IMPORTANT: Before the NION can establish communication with the MXL panel, the following MXL panel settings must be made. Make panel settings according to Figure 2-3 below:

```
NET ADDR: 251 ==> MKB-1      Annunciator/Keypad Module

Hardware Type -----> LCD/Keypad
Usage -----> All Activity
Message -----> MKB MAIN KEYBOARD/ANNUNCIATOR
Display only Annunciator -----> NO
Printer Option -----> VDT 80
Supervised Operation -----> NO
Fault Detection -----> NO
Remote Diagnostic -----> NO

Printer Communication Parameters:

Serial Baud Rate -----> 9600 BAUD
Data Word Size -----> 8 bits
Parity -----> NO PARITY
Stop Bits -----> 1 bit
```

Figure 2-3: MXL Panel Settings

2.4 Device Addressing for the MXL Control Panel

MXL device addresses contain a loop number followed by the two digit individual device address.

<Loop><Address> XXXYY

Examples: 00101, 25305, Rly00403 (Relay address)

A Note on Device Addressing for Relays

To issue Enable/De-Energize and Disable/Energize commands, a device must be manually created in the Workstation with device ID RlyXXXXYY, where Rly is the prefix for a relay device type, XXX is the loop number, and YY is the address.

2.5 Software Replacement/Upgrade Installation

When replacing or upgrading the NION software chip, execute the following steps:

1. Disconnect all power to the NION-232B.
IMPORTANT: Always exercise ESD precautions when directly handling the NION-232B or any other hardware.
2. Place the flash module in its socket according to the figure below. Orient the notch on the chip with the notch in the socket.
3. Re-apply power to the NION.

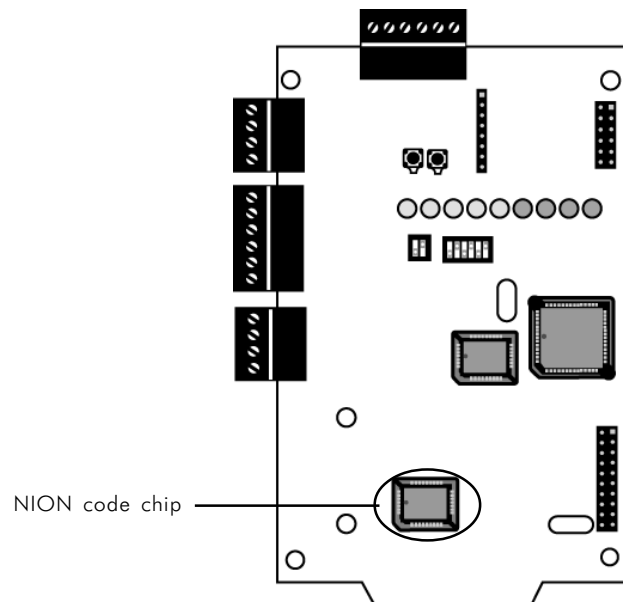
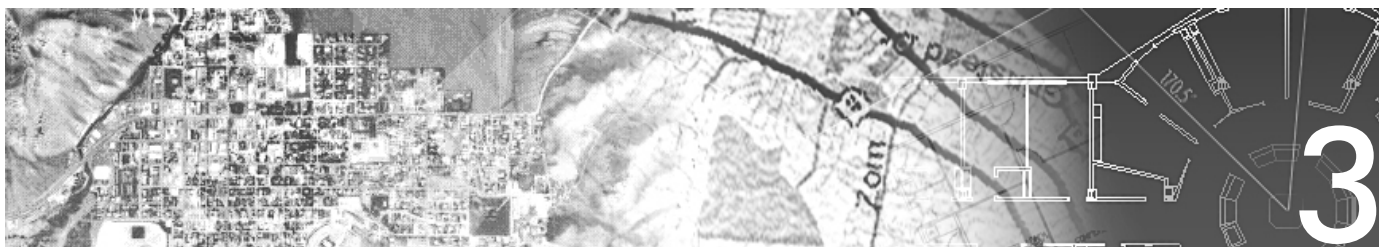


Figure 2-4: NION Software Replacement



Section 3: Plug-In Configuration and Operation

3.1 Plug-In Selection and Configuration

Plug-In applications are independently operating software applications that are linked to specific NION types. They interface with the workstation at the network level. Configuration (.cfg) files act to create new menu options by defining 'macro' commands or sequences of information for communicating with specific devices. Configuration files relate to specific devices, and their options are accessed through device menu options or macro definitions.

Plug-Ins and configuration files are designed to be configured automatically when the network monitoring system software is installed. There may be occasions, however, when a plug-in will need to be configured manually. This is done using the **NION Plug-In Application Selection and Configuration** form. To access this form, from the Workstation, select **Workstation Configuration, NION Applications**. To configure the NION-MXL Plug-In, follow these steps:

1. Select MXL in the **NION Type** combo box.



NOTE: The related hardware must be installed to utilize the related features provided by the plug-in.

Click Here to Change Current Linked Plug-In

Menu Items/Commands Available for Current Plug-In

Local Area Server and Wide Area Server are the two possibilities. If there is a restriction for the selected NION, it will be displayed here.

Figure 3-1: NION Plug-In Selection and Configuration Form

2. Click **Change...** to modify the current plug-in for the selected device. This will access a file selection dialog showing the Plugin directory. Select the **MXL.cfg** file associated with the desired plug-in and click on **OK**.
3. The commands associated with the selected configuration file will now appear in the **Available Icon Menus** display. These are the commands that can now be assigned to a macro function using the **Macro Editor**, or assigned to a **Functional Button** on the **Floor Plan Display**. These options will automatically appear on the pulldown menu for the selected device (provided the current workstation has control of the device).

Clicking on an available command will cause the **Device Type for Chosen Menu** display to show what devices are affected by the chosen command. Some commands will affect all device types, others will have specific types only. When creating devices to use plug-in commands be sure they are defined as one of the appropriate types.

When the plug-in has been configured, click **OK** to close the **Plug-In Selection and Configuration Form**.

3.2 Mapping Plug-ins With NIONs

In order for plug-in applications to function, they must be linked with the nodes or devices to which they correspond. In most cases this is done automatically, and each recognized node is linked to the appropriate plug-in application.

There may be times when nodes and devices are not automatically read and updated by the workstation, and links are not established. Therefore, it is advised that this one-time linking process be checked when assigning new plug-ins, and if the device type has not been automatically assigned, then assign it manually. This can be done in the Network Configuration Window. This window is opened by selecting **Tools, Network Administration**.

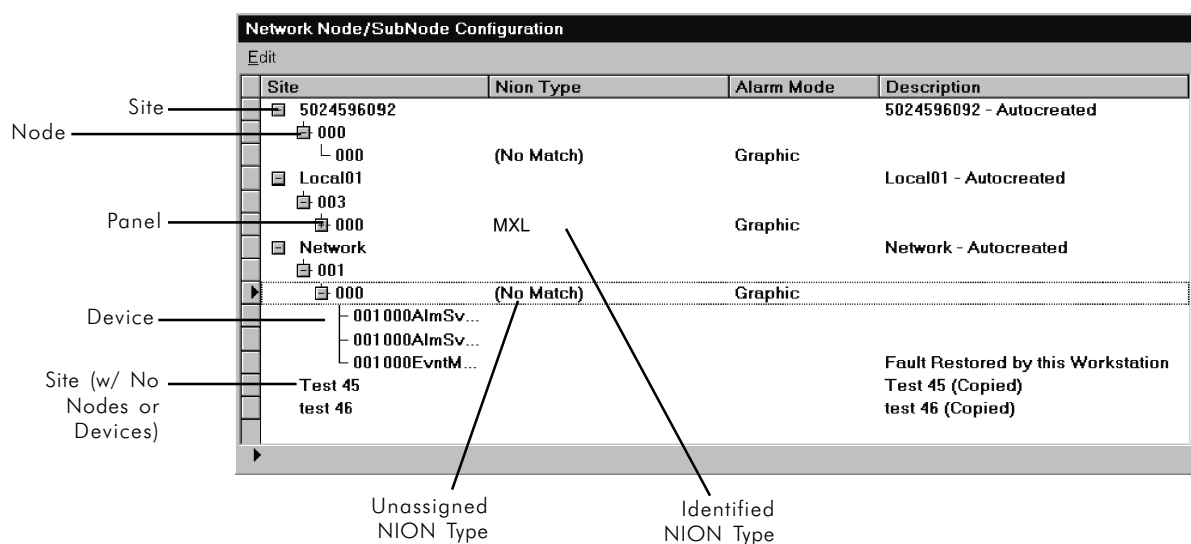
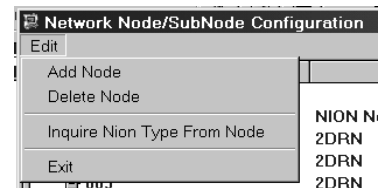


Figure 3-2: Network Configuration Window

To obtain information about a specific node, single click on the desired node, then select **Edit, Inquire NION Type From Node**, and the NION type will automatically be displayed. Add Node/Delete Node will add or delete a node from the list displayed in the window. Select Exit when finished.



NOTE: NIONs are often configured through plug-ins. These configuration tools can only be accessed from the device pop-up menus. Therefore, before any configuration of the NION can be done, a device must be created for the node.

3.3 Launching the Plug-In from the Workstation

To launch the NION-MXL plug-in, right click on the panel or a related device icon, or right click on an acknowledged event from the panel or related device. Then from the pop-up menu, select **Launch PlugIn**.

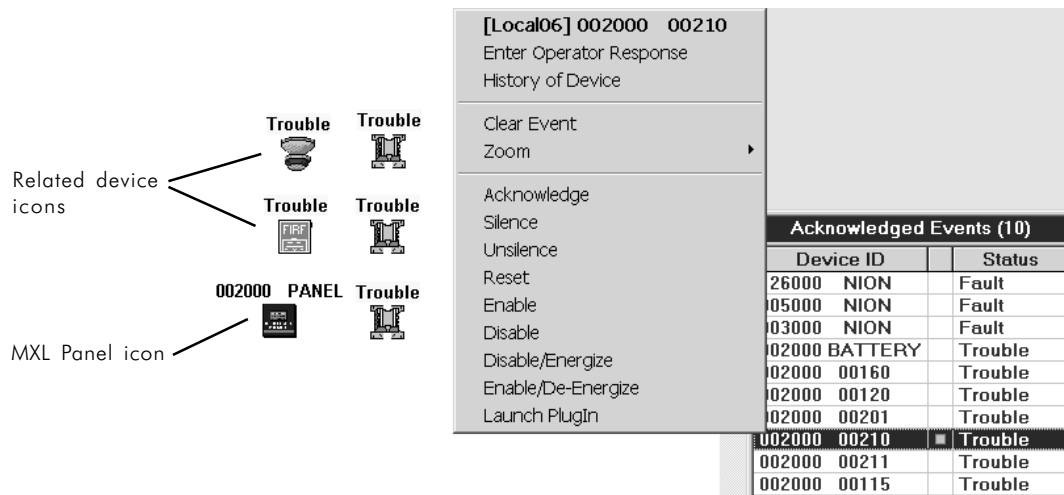


Figure 3-3: MXL Plug-In Right Click Menu

3.4 Establishing an Online Panel Session

Once the plug-in is running, you can establish an online panel session between the NION and the MXL panel. To do this, from the MXL-UniNet Communications screen, select **Command, Connect**. The online session will then be active. You will then be prompted for your password. After typing the password and hitting <Enter>, you will have access to online commands (see Figure 3-5.).

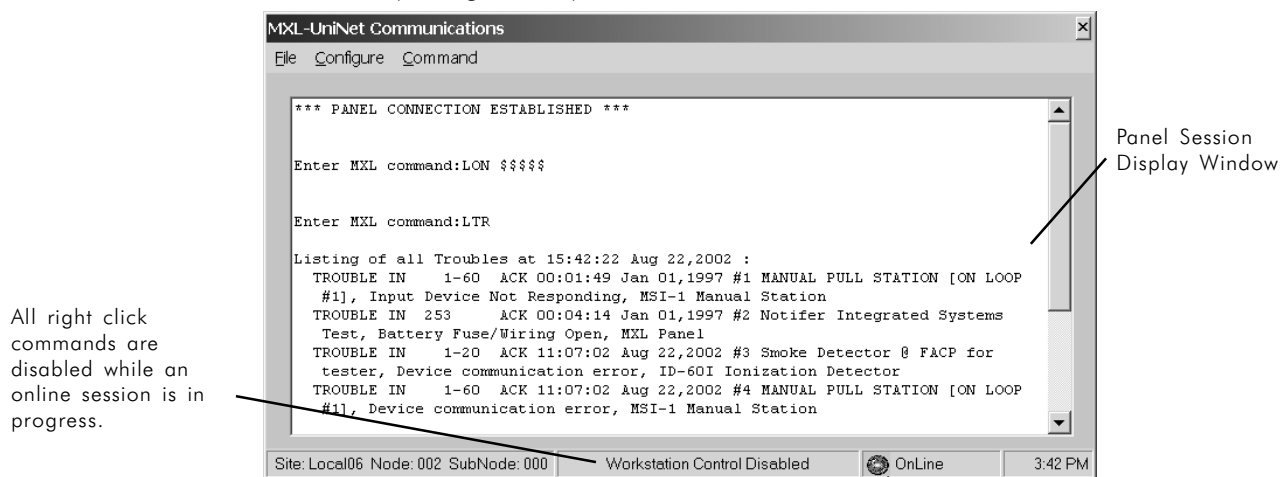


Figure 3-4: Online Panel Session

Menu Bar Options

File

Close - This will exit the plug-in, i.e., the online panel session screen.

Configure

Set Password - The default password is "44444." **IMPORTANT:** This password must be set to correspond to the password of the MXL panel.

Command

Clear Screen - This clears the panel session display window.

Print Screen - This will print the text currently displayed on the panel session screen.

Connect/Disconnect - This command will establish (connect) or terminate (disconnect) an online panel session.

Clicking on this icon will perform the same function as the Connect/Disconnect option under the Command menu.

3.5 Online Panel Session Commands

The following online panel session commands are available via the NION-MXL panel session. For a more comprehensive list and descriptions, consult your MXL documentation.

On-Line Session Command Table			
Acknowledge Commands		History Commands	
Command	Function	Command	Function
AAL	Acknowledge Alarm	HAL	Alarm history from time/date
ASP	Acknowledge Supervisory	HSP	Supervisory history from time/date
ATR	Acknowledge Trouble	HTR	Trouble history from time/date
ASC	Acknowledge Security	HSC	Security history from time/date
SUA	Silence/Unsilence Audibles	HAE	All events from time/date
List Commands		Control Commands	
Command	Function	Command	Function
LST	List Status	CRS	Reset MXL panel
LAL	List Alarms	LON	Log On
LSP	List Supervisory	LOG	Log Off
LTR	List Trouble	LMP	Lamp Test of MKB-1
LSC	List Security	LCD	Test LCD display on MKB-1
LSS m	List Sensitivity (m=module number)	PWR m	Power report (m - PSR-1 or MMB-1 module number)
LAV m	List Analog Voltage (m=module number)	MLT m	MOI-1 Lamp test
LTV m	List Threshold Voltage (m=module number)	DEV m-d x	Device LED Control m = module number d = sub-address device LED x = E for energize LED, D for de-energize LED
LMT m	List Module Type (m=module number)		
LDT m	List Device Type (m=device number)		
LMS m	List Messages (m=module number)		
LSW	List Software Version		
Miscellaneous Commands			
Command	Function	Command	Function
CTD hh:mm:ss nn-dd-yyyy	Reset time/date. hh = 2-digit number of hours (24-hr format) mm = 2-digit number of minutes ss = 2-digit number of seconds nn = 2-digit month of year dd = 2-digit day of month yyyy = 4-digits of year	CSS m-d x	Change Sensitivity m = module number d = sub-address of smoke detector x = desired sensitivity setting 0-low3; 1-low2; 2-low1; 3-Norm; 4-hi1; 5-hi2; 6-hi3
CIP m-d x	Change (Arm/Disarm) Input Point m = module number d = sub-address of smoke detector x = A for Arm, D for Disarm	COP m-d x	Change (Arm/Disarm) Output Point m = module number d = sub-address of smoke detector x = A for Arm, D for Disarm

Figure 3-5: Online Panel Session Commands





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