NOTIFIER UniNet 2000 NION-MXL Workstation Plugin Components Instruction Manual

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NOTIFIER UniNet 2000 NION-MXL Workstation Plugin Components

UniNet 2000 NION-MxL Instruction Manual

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 capabil- ity-can provide early warming of a developing fire. Such a sys tem, however, does not assure protection against property dam- age or loss of life resulting from a fire. The Manufacturer recommends that smoke and/or heat detec- tors be located throughout a protected premise following the rec ommendations of the current edition of the National Fire Protec- tion Association Standard 72 (NFPA 72), manufacturer's recom- mendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detec tors, which is made available at no charge to all installing deal- ers. A study by the Federal Emergency Management Agency (an agency of the United States govemment) 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 waning against fire, they do not guarantee warning or protection against fire. A fire alarm system may not provide timely or adequate waning, 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 sensea first-floor or basement fire.

Particles of combustion or "smoke" from a developing fire may not reach the sensing chambers of smoke detectors be cause:

- 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 ceilingor 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 alarmn smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. f such density levels are not created bya developing fire at the location of detectors, the de tectors will not go into alarm.
Smoke detectors, even when working properly, have sensing limitations. Detectors that have photoelectronic sensing cham- bers 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 detec- tor is necessarily best and a given type of detector may not pro- vide adequate warning of a fire. Smoke detectors cannot be expected to provide adequate warn- ing of fires caused by arson, children playing with matches (es- pecially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable mate- rials, 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 detec tors 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 lite.
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 wining9, communications, signaling, and/or power. If detectors are not so located, a devel- oping 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 mean- ing of the signal. It is the property owners 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 compat ible 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 inade- quate maintenance. To keep the entire fire alarm system in ex- cellent 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 mainte- nance agreement should be arranged through the local manufacturer's representative. Maintenance should be sched- uled 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.

Installation Precautions

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

WARNING- Several different sources of power can be con- nected 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. Re- acceptance testing is required after any change, addition or de- letion of system components, or after any modification, repair or adjustment to system hardware or wiring. All components, circuits, system operations, or software func tions 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 compo- nents 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% 1.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 light ning-induced transients. Although no system is completely im mune from lightning transients and interferences, proper ground ing 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 in- serting 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 modifica- tions, verity that they wil 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 re- moval.
Though designed to last many years, system components can fail at any time. This system contains static-sensitive com- ponents. Always ground yourself with a proper wrist strap be- fore handing 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 accor dance with the instruction manual, may cause interference to radio communications. It has been tested and found to com- ply with the limits for class A computing device pursuant to Subpart B of Part 15 of FCC Rules, which is designed to pro- vide 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 interfer- ence 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.

Foreword

The contents of this manual are important and must be kept in close proximity ot the hardware. It building owner ship is changed, this manual and all other testing and maintenance intormation must also be passed to the current owner of the tacility. A copy of this manual was shipped with the equipment and is also available from the manu-facturer.
This equipment has been designed to comply with standards set forth by the following regulatoy agencies:

Underwriters Laboratories U.S. Documents

- UL-864 Control Units for Fire Protetive 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 maltunction.

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 trom an XL panel. This system is suitable for proprietary systems listed under: .

- NFPA 72-1993 Proprietary Service.

UniNef consists ot 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. tach Local Area Server (LAS) has a maximum capacity of 200 nodes, using twisted pair or tiber-optic cabling. A twisted pair network topology (F1-10) may be a maximum length ot 6000 teet 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. iber-optic cable runs can be contigured in either a bus or ring topology with up to 8db of attenuation between nodes. The network is supervised tor shorts, opens and node tailures as dictated in Style 4 wiring.
The network power is 24 VDC nominal and receives operating power troma power limited, tiltered source listed tor use with fire protecfive signaling units.

Netw ork Installation M anual	51539		UniLogic	51547
Workstation	51540		A M 2020 /AFP1010 Instruction M anual	52020
S ystem U tilities	51592		UniTour	51550
B C I v er. 3-3	51543		IRM /IM	51591
Local Area Server	51544		UniN et O nline	51994

Deseription and Installation

General Description

The NION-MXL interfaces to a Pyrotronics MXL control panel to provide monitoring and control of the FACP to a UniNet 2000 network. The NION is based on the NION-2328 motherboard hardware and communicates with the FACP via the EIA-232 connection.

Deseription 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-2328 provides transparent or interpreted communications between the workstation and control panels. Unless otherwise noted, Acknowledge, Silence, and Reset are available tor each intertace. Check specitic connections tor 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 specitic to the type of network to which they connect (FT-10 or tiber). The transceiver type must be specitied and ordered separately when ordering the NION. For intormation regarding network transceivers see the 51539 Network Installation manual section 1.1.3.
- The NION can be powered by any power limited, tiltered source with battery backup which is UL or ULC Tisted, as appropriate tor your area, tor use with tire protective signaling units.
- The NION mounts in an enclosure (NISCAB-1 or CHS-4L in CAB-3 series enclosure) with conduit knockouts.

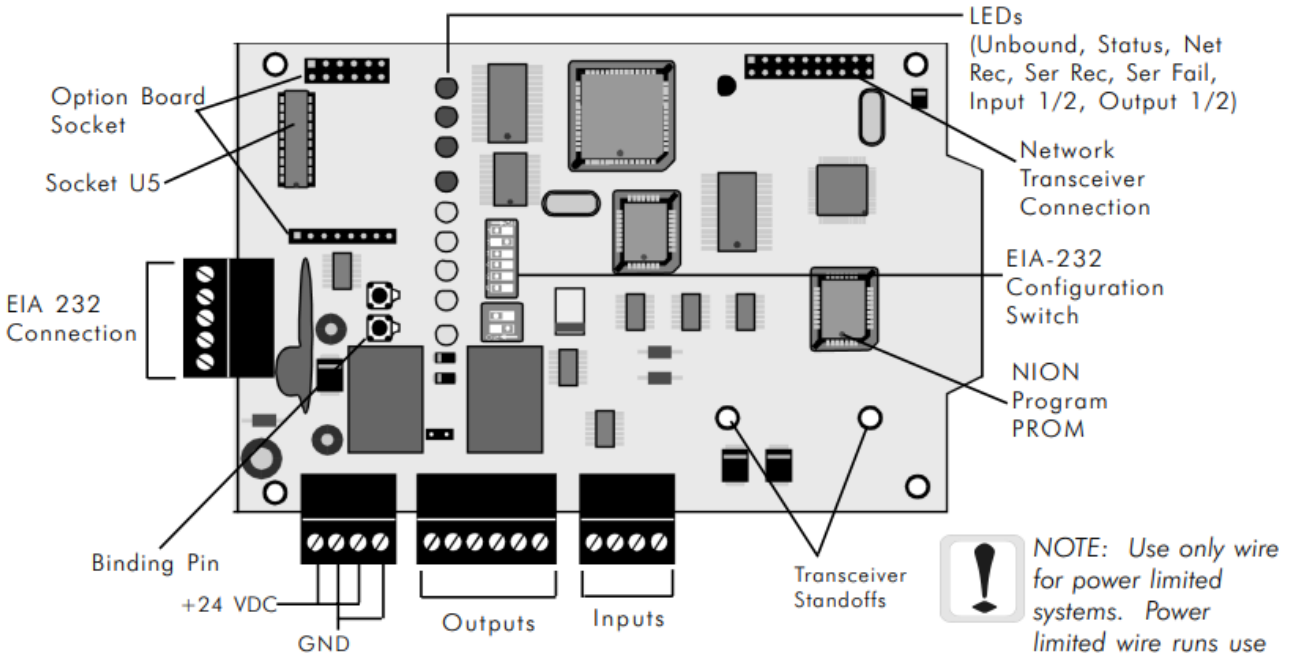


Figure 1-1: NION-232B Board Layout

Required Components

The NION-MXL requires the tollowing equipment:

- NION-232B
- SMX Transceiver ($7FTXC, 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 MM. All ot the items described must be ordered separately.

site Requirements
The NION-2328 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 (86F).

Cabinet Installation
The NION-232B is designed to be installed on a wall within 20 teet 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-2328 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. Reter to the enclosure mounting hole layout below.

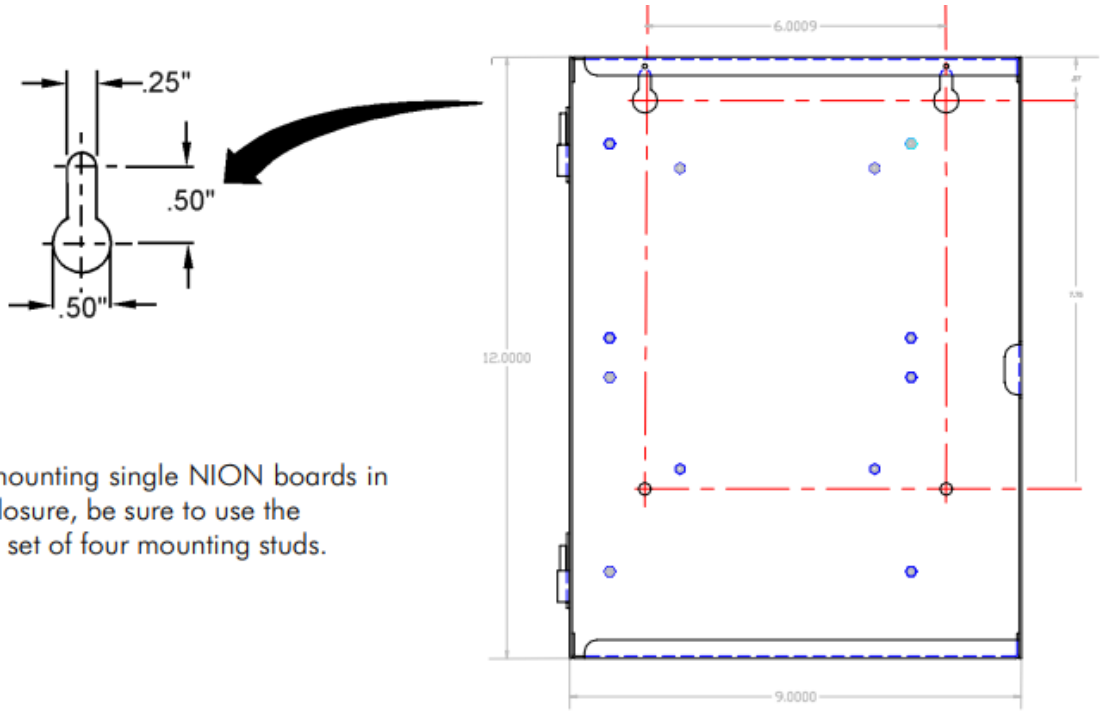


Figure 1-2: NION Stand-Alone Enclosure Mounting Hole Layout

Serial Communication Deseription
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-2328B settings must be contigured in the tield tor the application it was ordered to till. These settings are made on switch S2.
It it becomes necessary to change any of these seings, 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.

NION Power Requirements/Connection

The NION-2328 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 tor your area, tor use with tire protective signaling units. All connections must be within 20tt 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: # is recommended that the installer contorm to local code requirements when instaling all wiring. All power connections must be non-resettable. Reter to the current NOIIFIER® Catalog tor specitic part numbers and ordering intormation for each NION. Aways remove power trom 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. Aways observe ESD protection procedures.

NION-232B Operation

NION-232B LEDs

Five LEDs on the mother board of the NION-2328 provide intormation about module operation. Ihe 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

NION-MXL Configuration

Serial Connections with the MXL Control Panel

The NION-MXL must be connected to the EIA-232 port ot a Pyrotronics PIIM-I Peripheral Intertace Module installed with the MXL Control panel. Jumper GI on the PIM-I module must be closed. For specitic connections, refer to Figure 2-1. EIA-232 settings are: Baud Rate 9600, Data Bits – 8, Stop Bits – 1, Parity – None.

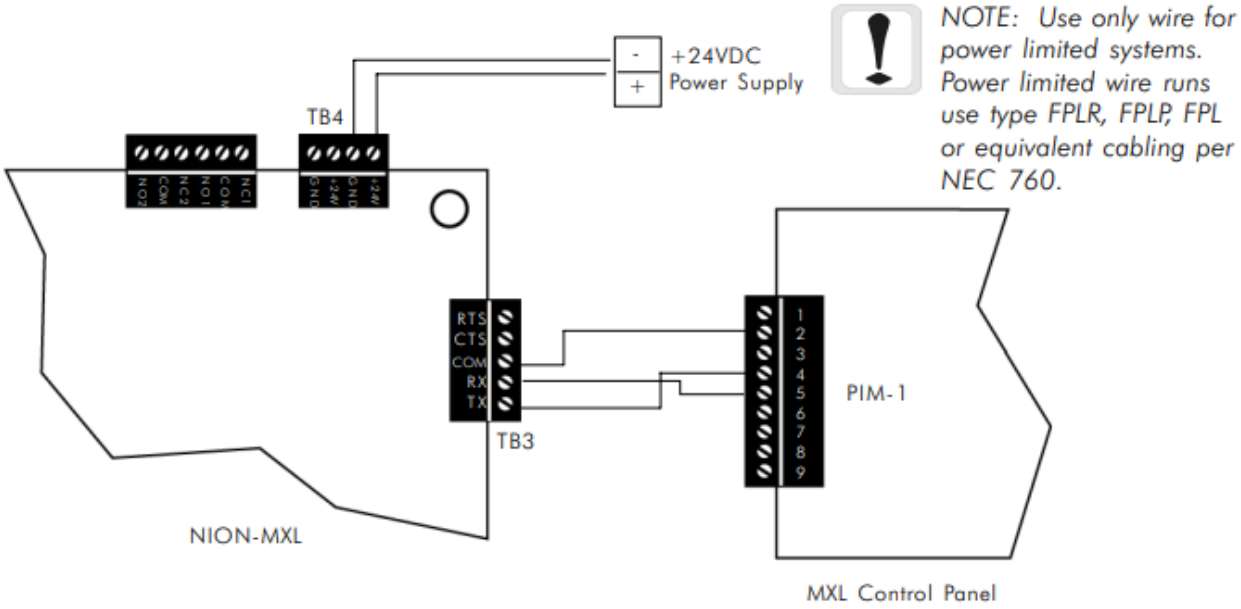
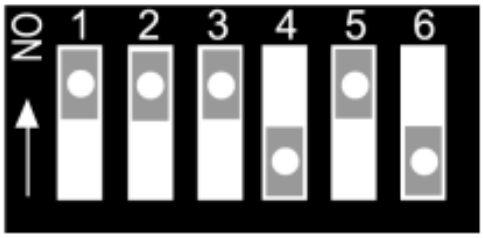


Figure 2-1: NION-MXL Wiring Diagram

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 ot the control panel. Ihe NION-2325 settings must be contigured in the field for the application if was ordered to till. These settings are made on switch S2. it becomes necessary to change any of these settings, use the tigure 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 $2 Settings for the NION-232B RS-232 Configuration

Configuring the MXL Panel for Communications
IMPORTANT: Before the NION can establish communication with the MXL panel, the following MXL panel seftings must be made. Make panel settings according to igure 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

Device Addressing for the MXL Contrel Panel
MML device addresses containa loop number tollowed 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 Worksta- tion with device ID RlyXXXYY, where Rly is the prefix for a relay device type, XXX is the loop number, and YY is the address.

Software Replacement/Upgrade Installation
When replacing or upgrading the NION software chip, execute the following steps:

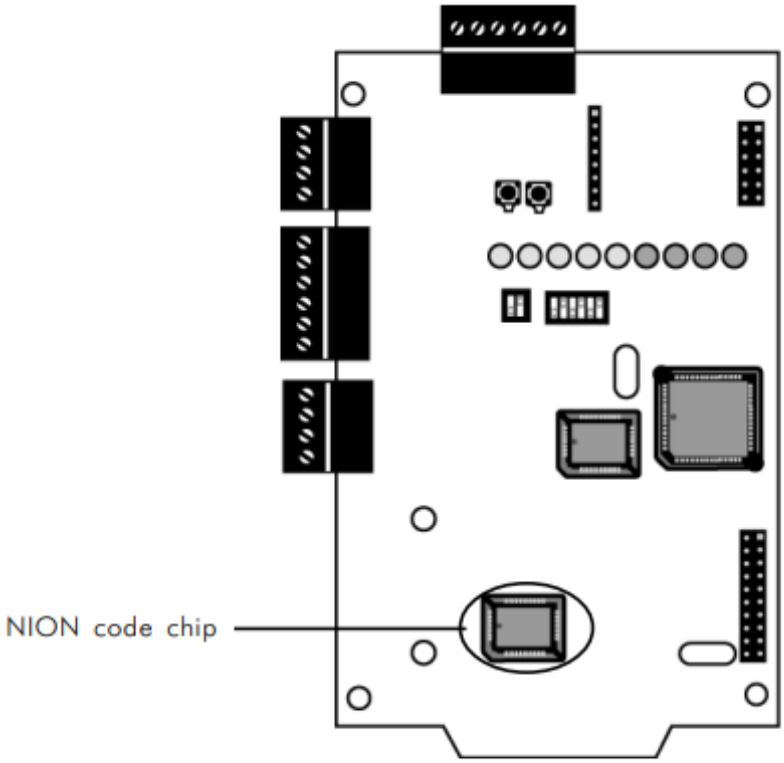


Figure 2-4: NION Software Replacement

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.

Plug-In Configuration and Operation

Plug-In Selection and Configuration

Plug-In applications are independently operating software applications that are linked to specific NION types. hey intertace with the workstation at the network level.Contigurafion (.ctg) files act to create new menu options by detining ‘macro commands or sequences of intormation tor communicating with specitic devices. ontiguration tiles relate to specitic devices, and their opfions are accessed through device menu options or macro definifions. Plug-Ins and contiguration tiles are designed to be contigured automatically when the network monitoring system sottware is installed. There may be occasions, however, when a plug-in will need to be contigured manually. This is done using the NION Plug-In Application Selection and Contiguration torm. lo access this torm, trom 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.

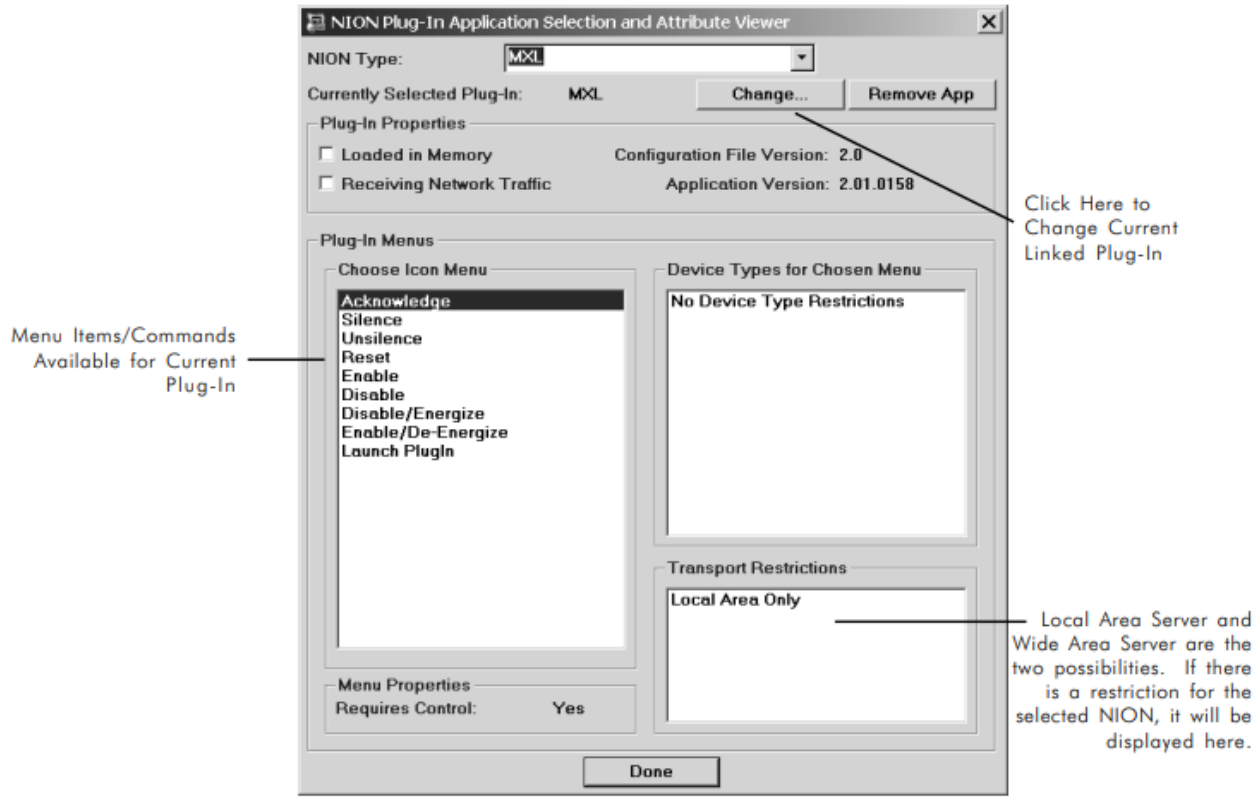


Figure 3-1: NION Plug-In Selection and Configuration Form

2. Click Change… to modity the current plug-in for the selected device. This will access a file selection dialog showing the Plugin directory. Select the MXL.cfg tile associated with the desired plug-in and click on OK.
3. The commands associated with the selected contiguration tile will now appear in the Available Icon Menus display. These are the commands that can now be assigned to a macro tunction using the Macroo Editor, or assigned toa Functional Button on the Floor Plan Display. These options will automatically appear on the pulldown menu tor 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 attected by the chosen command. Some commands will attect all device types, others will have specitic types only. When creating devices to use plug-in commands be sure they are detined as one of the appropriate types. When the plug-in has been configured, click OK to close the Plug-In Selection and Configuration Form.

Mapping Plug-ins With NIONs

In order tor plug-in applications to tunction, 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 it the device type has not been automatically assigned, then assign it manually. This can be done in the Network Contiguration Window. This window is opened by selecting Jools, Network Administration.

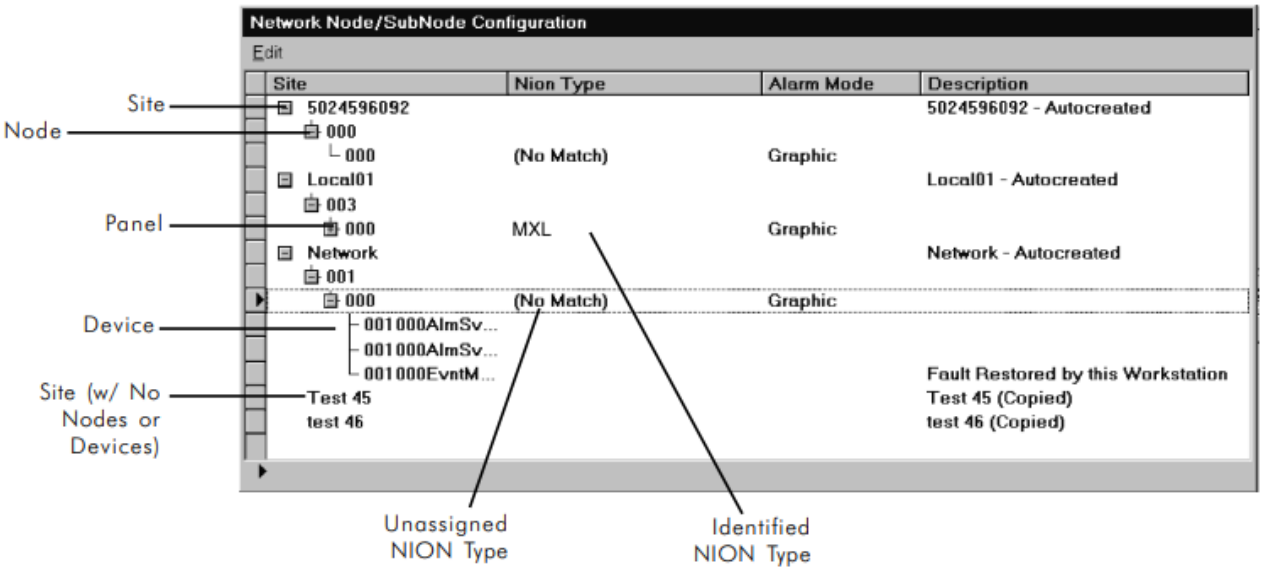
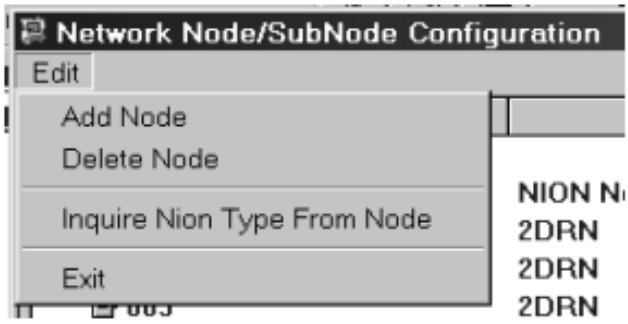


Figure 3-2: Network Configuration Window

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 otten contigured through plug-ins. These contiguration tools can only be accessed from the device pop-up menus. Therefore, before any configurafion of the NiON can be done, a device must be created for the node.

Launehing the Plug-In from the Workstation

lo launch the NION-MXL plug-in, right click on the panel or a related device icon, or right click on an acknowl-edged event trom the panel or related device. Then trom the pop-up menu, select Launch PlugIn.

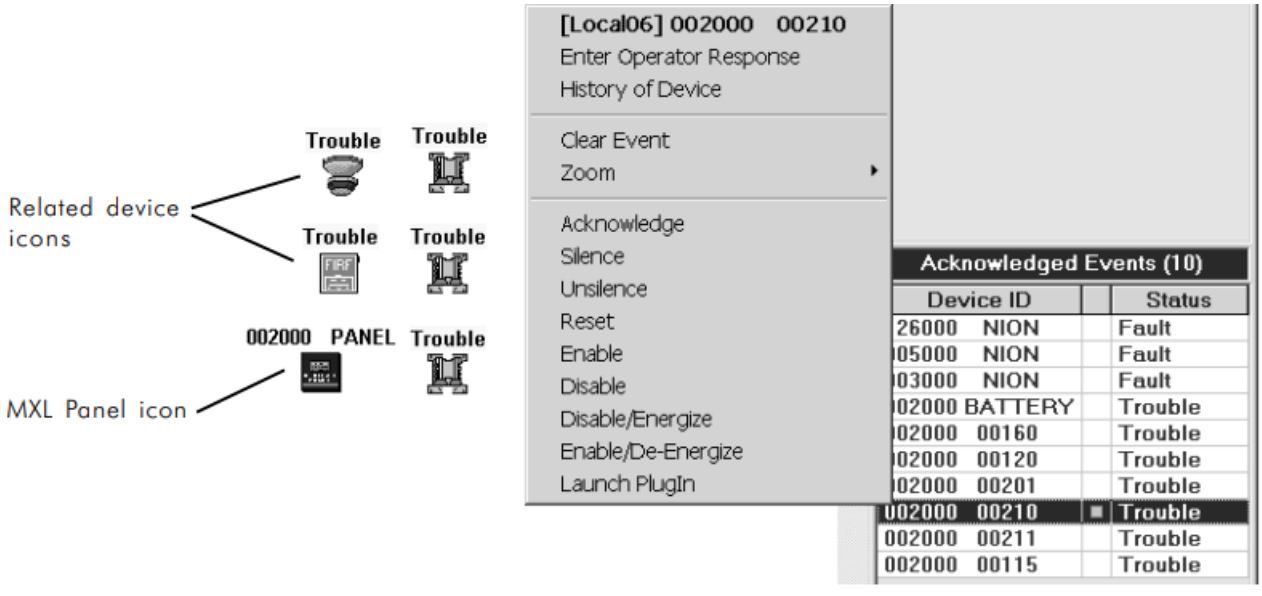


Figure 3-3: MXL Plug-In Right Click Menu

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 hiting <Enter>, you will have access to online commands (see Figure 3-5.).

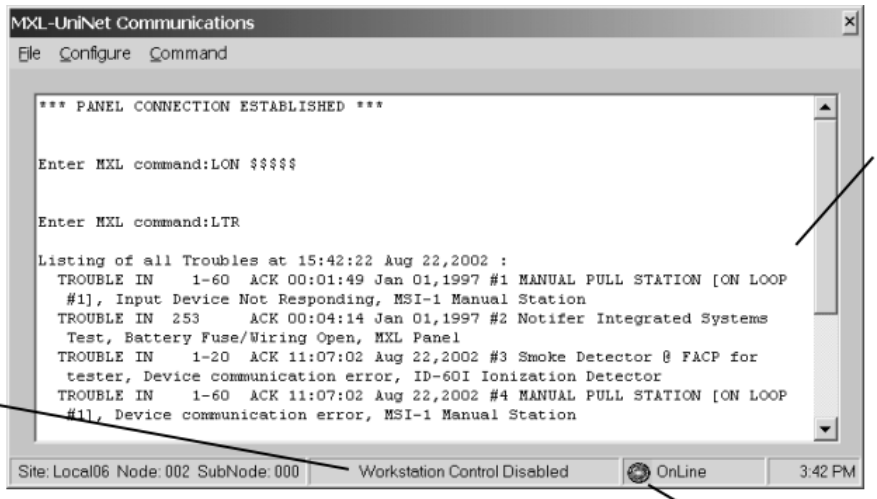


Figure 3-4: Online Panel Session

Menu Bar Options

File

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

Contigure

Set Password The detault password is “44444.”

IMPORTANT: This password must be set to corre- spond 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/LDisconnect – This command will establish (connect) or terminate (disconnect) an online panel session.

Online Panel Session Commands

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

Command	Acknowledge Commands Function	Command	History Commands 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 m odule number)
LAV m	List Analog Voltage (m=module numb er)	MLT m	MOI-1 Lamp test
LTV m LMT m LDT m LMS m LSW	List Threshold Voltage (m=module nu mber) List Module Type (m=module number List Device Type (m=device number) List Messages (m=module number) Li st Software Version	DEV m-d x	Dev ice LED Control m = module numb er d = sub-address device LED x = E for e nergize LED, D for de-energize LED

B

C

D

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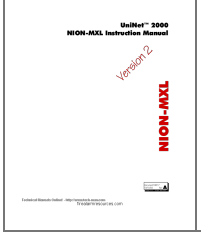
Limited Warranty

NOTIFIER° warrants its products to be free from defects in materials and workmanship for eighteen (18) months from the date of manufacture, under normal use and service. Products are date stamped at time of manufacture. The sole and exclusive obligation of NOTIFIER° is to repair or replace, at its option, free of charge tor parts and labor, any part which is derective in materials or workmanship under normal use and service. For products not

under NOTIFIER° manufacturing date-stamp control, the warranty is eighteen (18) months from date of original purchase by NOTIFIER°s distributor unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. This warranty is void if the product is altered, repaired or serviced by anyone other than NOTIFIER° or its authorized distributors or if there is a failure to maintain the products and systems in which they operate in a proper and workable manner. In case of detect, secure a Return Material Authorization form from our customer service department. Return product, transportation prepaid, to NOTIFIER°, One Fire-Lite Place, Northford, Connecticut 06472-1653. This writing constitutes the only warranty made by NOTIFIER° with respect to its products. NOTIFIER° does not represent that its products will prevent any loss by fire or otherwise, or that its products wil in all cases provide the protection for which they are installed or intended. Buyer acknowledges that NOTIFIER° is not an insurer and assumes no risk for loss or damages or the cost of any inconvenience, transportation, damage, misuse, abuse, accident or similar incident.NOTIFIER° GIVES NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR OTHERWISE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF UNDER N CIRCUMSTANCES SHALL NOTIFIER° BE LIABLE FOR ANY LOSS OF OR DAMAGE TO PROPERTY, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE NOTIFIER° PRODUCTS. FURTHERMORE, NOTIFIER° SHALL NOT BE LIABLE FOR ANY PERSONAL INJURY OR DEATH WHICH MAY ARISE IN THE COURSE OF, OR ASA RESULT OF, PERSONAL, COMMERCIAL OR INDUSTRIAL USE OF ITS PRODUCTS. This warranty replaces all previous warranties and is the only warranty made by NOTIFIER°. No increase or alteration, written or verbal, of the obligation of this warranty is authorized. “NOTIFIER” is a registered trademark.

Documents / Resources

	**NOTIFIER UniNet 2000 NION-MXL Workstation Plugin Components** [pdf] Instruction Manua l NION-MXL, UniNet 2000 NION-MXL, UniNet 2000 NION-MXL Workstation Plugin Components Workstation, NION-MXL Workstation Plugin Components, Workstation Plugin Components, Plu gin Components

References

- **Fire Alarm Resources | Download fire alarm documents**
- **tech-man.com**