(N) NOTIFIER®

NAM-232
Network Adapter Module

Section: Network Systems

GENERAL

The NAM-232 Network Adapter Module functions as an interface between the AFP-200, AFP-300, and AFP-400 Fire Alarm Control Panels and the **NOTI•FIRE• NET™**. The control panels each consume a single-node address on the network. The NAM-232 interfaces to the control panels through the EIA-232 serial communications port.

NOTI•FIRE•NET™ is a series of systems that allow a group of Fire Alarm Control Panels and other control equipment to connect together to form a true peer-to-peer network. Equipment that connects to **NOTI•FIRE• NET™** and communicates with other equipment using the network may be referred to as a network node. An NFS-3030/NFS-640 Fire Alarm System with an NCM Network Control Module installed; an NCA Network Control Annunciator with an NCM installed; an AM2020/AFP1010 Fire Alarm System with a SIB-NET Serial Interface Board installed; an NCS Network Control Station; an INA Intelligent Network Annunciator; and an AFP-200/300/400 with a NAM-232 may all be network nodes. The network supports communications over a twisted-pair wire or fiber-optic medium. A network combination of both wire and fiber may exist in the same network.

NOTE: Refer to manual network configuration section for panel compatibility.

NOTI•FIRE•NET™ is a trademark of NOTIFIER, 1994.

NETWORK FEATURES

AFP-200:

1. The network has the ability to send Acknowledge, Silence, and Reset commands to the AFP-200.
2. Limited cooperative control-by-event (CCBE). Zones 1-45 are network independent. Zones 46-89 are initialized as one (1) "OR" equation.
3. The local node can send or receive network zone activations.

AFP-300/AFP-400:

1. Read/Alter Status; Group Enable/Disable; Individual Point Enable/Disable.
2. The network has the ability to send Acknowledge, Silence, and Reset commands to the AFP-300/AFP-400.
3. Cooperative control-by-event (CCBE). Zones 1-99 are network independent.
4. The local node can send or receive network zone activations.
5. Remote ACS control via the INA EIA-485 port. Two (2) annunciator addresses for a total of 128 annunciator points per AFP-300/AFP-400 system.

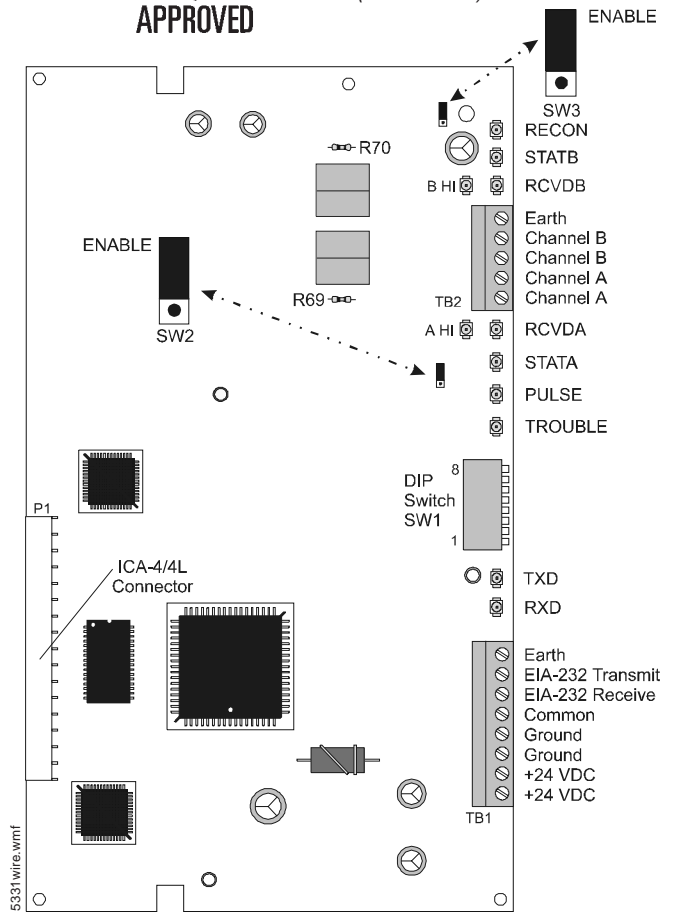## FEATURES

NAM-232W: Network Adapter Module (Wire)

• Supports twisted-pair wire medium.
• Data is regenerated at each node.
• DIP switch selectable single-port or dual-port monitoring.

California State Fire Marshal
7165-0028:164
7165-0028:181
7170-0028:182

UL LISTED S635

ULC CS118

FM APPROVED

MEA
104-93-E Vol. VIII
(NAM-232W)

▲ **Network Adapter Module Wire (NAM-232W)**

• DIP switch selectable network drill option.
• Selectable Earth Fault detection per channel.
• Provides electrical isolation between nodes.
• Transmission rate of 312.5 Kbaud.
• Compatible with **NOTI•FIRE•NET™** Release 2.5 (or higher).
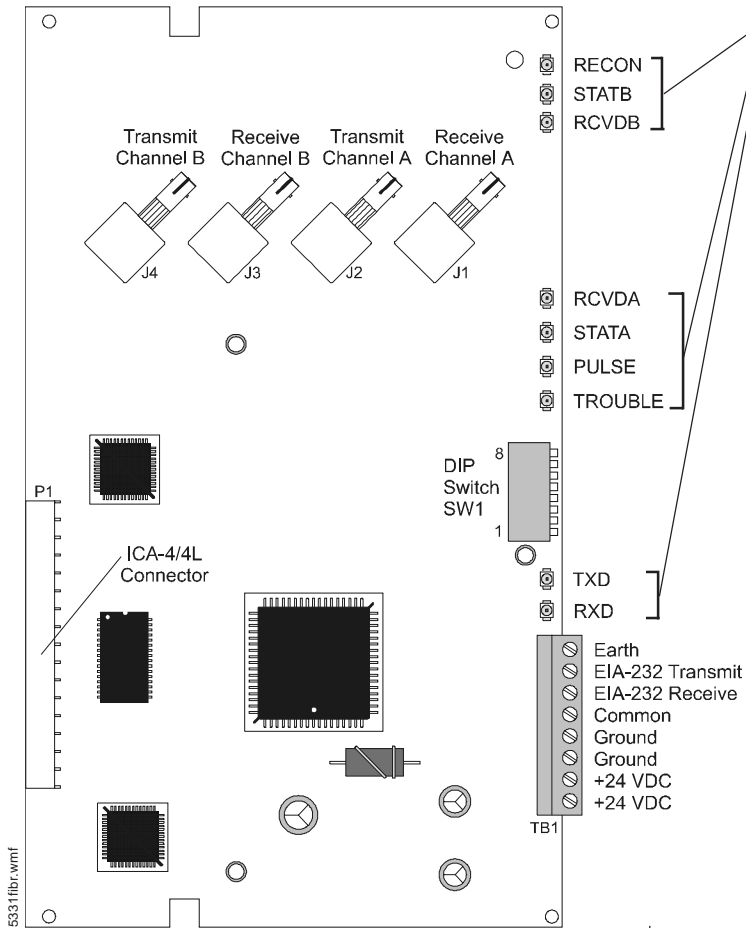• Diagnostic LED indicators.

ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

Made in the U.S.A.

Network Adapter Module Fiber (NAM-232F)

LED INDICATORS

- **RECON:** This yellow LED should remain off at all times when the network is operating properly. If it illuminates periodically, check the network media and thresholds using the MET-1 (Media Evaluation Tool).

- **STATB:** This yellow LED illuminates when the NAM-232 is not receiving valid data from NOTI•FIRE•NET™ on Port "B".

- **RCVDB:** This green LED illuminates when the NAM-232 is receiving data from the NOTI•FIRE•NET™ on Channel "B" (wire or fiber connection).

- **B HI *(NAM-232W only)*:** This green LED illuminates to indicate the NAM-232W Channel "B" is set for high threshold *(N/A on NAM-232F)*.

- **A HI *(NAM-232W only)*:** This green LED illuminates to indicate the NAM-232W Channel "A" is set for high threshold *(N/A on NAM-232F)*.

- **RCVDA:** This green LED illuminates when the NAM-232 is receiving data from the NOTI•FIRE•NET™ on Channel "A" (wire or fiber connection).

- **STATA:** This yellow LED illuminates when the NAM-232 is not receiving valid data from NOTI•FIRE•NET™ on Port "A".

- **PULSE:** This green LED illuminates when the NAM-232 is transmitting data to NOTI•FIRE•NET™.

- **TROUBLE:** This yellow LED indicates that the NAM-232 is not functioning.

- **TXD:** This green LED indicates when the NAM-232 is transmitting data over the EIA-232 interface to the AFP-200, AFP-300, AFP-400 FACP.

- **RXD:** This green LED indicates when the NAM-232 is receiving data over the EIA-232 interface from the AFP-200, AFP-300, AFP-400 FACP.

- NFPA Style 4 & 7 network operation.

FEATURES, *continued*

NAM-232F: Network Adapter Module (Fiber)
- Supports fiber optic medium.
- Transmission rate of 312.5 Kbaud.
- DIP switch selectable single-port or dual-port monitoring.
- DIP switch selectable network drill option.
- Data is regenerated at each node.
- Data is immune to all environmental noise.
- Diagnostic LED indicators.
- Optical isolation prevents ground loops.
- High level of data security.
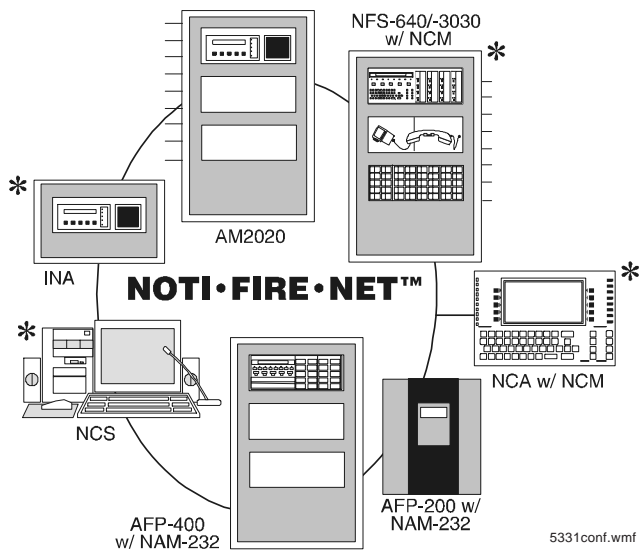- NFPA Style 4 & 7 network operation.

MOUNTING

The NAM-232 normally mounts inside the back of the control panel cabinet. The NAM-232 can also mount in the cabinet of other nodes on the network, provided that the distance between the NAM-232 and its host node is not greater than 50 feet (15.24 m).

GENERAL NOTES:

1) AFP-200, AFP-300, and AFP-400 lose local CRT capability when connected to the NAM-232.

2) AFP-200 system loses local printer and CRT capability when connected to the NAM-232.

NETWORK CONFIGURATION EXAMPLE

*NOTE, NOTI•FIRE•NET™:

NOTI•FIRE•NET™ version 3.0 network will not support the ONYX™ Series of products (NFS-640, NFS-3030, NCA, NCS-W/F-ONYX, or NWS). *NOTI•FIRE•NET™ version 4.0* network will not support the INA, NFS-3030, or NWS. *NOTI•FIRE•NET™ version 5.0* network will not support the INA.

*NOTE, NAM-232 FIRMWARE UPGRADE:

*The NAM-232 comes from the factory with firmware for a version 3.0 network. To upgrade the NAM-232 for a **version 4.0** network, order **NROM-NAM4.0M**. To upgrade the NAM-232 for a **version 5.0** network, order **NROM-NAM5.0M**.*