VESDA-HLI-GW

VESDA Gateway with VHX-1420-HFS

NOTIFIER® by Honeywell

Network Systems

General

The VESDA Gateway provides a communication link between the Xtralis™ VESDAnet network, and the NOTI•FIRE•NET™ network (NFN) via the VHX-1420-HFS High Level Interface (HLI). The VESDA-HLI-GW translates VESDAnet protocol to NFN protocol, enabling events on the VESDAnet to be annunciated on compatible fire network annunciators.

The VESDA-HLI-GW connects to the standard or high speed NOTI•FIRE•NET™ and enables event notification and control of VESDA detectors on the VESDAnet through a supervised HLI VHX-1420-HFS.

Event notifications for up to 100 detectors are displayed on the fire network annunciators with a device type of "Aspiration." Control can be initiated from these annunciators.

Features

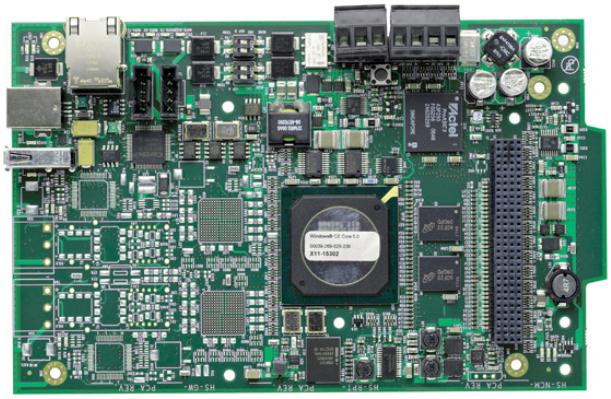
The VESDA-HLI-GW:

- Communicates with the VHX-1420-HFS using Modbus protocol via RS-232 connection.
- Supervises the communications to the VHX-1420-HFS.
- Monitors up to 100 detectors.
- Displays VESDA detectors as type "Aspiration" on the display nodes.
- Monitors VESDAnet detector events from NCA-2, LCD-160, ONYXWorks, and NFS2-3030 configured for Network Display Mode.
- Controls VESDAnet detector functions from NCA-2, ONYXWorks, or NFS2-3030 configured for Network Display Mode.
- Performs Read Status of VESDAnet detectors from NCA-2, LCD-160, ONYXWorks, and NFS2-3030 configured for Network Display Mode.
- Enables zone mapping.
- Provides DCC mode as required for Canadian applications.
- The VESDA-HLI-GW translates VESDAnet protocol to NFN protocol, enabling events on the VESDAnet to be annunciated on compatible fire network annunciators, including FACP.

For detailed feature information, see the VESDA-HLI-GW Installation and Operation Manual.

Compatibility

- High-speed NOTI•FIRE•NET™ network.
- Standard NOTI•FIRE•NET™ network.
- 9th edition Fire Alarm Control Panels: NFS-320, NFS2-640, and NFS2-3030. NCA-2 Network Control Annunciator.
- ONYXWorks Workstation.
- PC NFN Gateways (NFN-GW-PC-F, NFN-GW-PC-W, NFN-GW-PC-HNMF, NFN-GW-PC-HNSF, NFN-GW-PC-HNW).
- Embedded NFN Gateway (NFN-GW-EM-3
- NOTI•FIRE•NET™ Web Server NWS-3.
- LCD-160.
- Verifire™ Tools.
- The VESDA Gateway is compatible with the following VESDA detectors:
- VESDA VLF.
- VESDA VLC.



VESDA-HLI-GW

- VESDA VLP.
- VESDA VLS.
- VESDA VLI.
- VESDA-E VEP.
- VESDA-E VEU.
- VESDA-E VEA.

Additional equipment may exist on the network. For the complete list of compatible equipment and minimum release versions, see the VESDA-HLI-GW Listing Document.

Specifications

- **Power input:** 24 VDC Input current: 460 mA @ 24 VDC with or without Network Communications Module.
- **Temperature:** 0°C to 49°C (32°F - 120°F).
- **Relative Humidity:** 93 ±2% non-condensing at 32 ±2°C (90 ±3°F).

NOTE: *It is recommended that this product be installed in an environment with a normal room temperature of 15-27º C (60-80º F).*

Product Line Information

For detailed information about required components, see the VESDA-HLI-GW Installation and Operation Manual.

Equipment ordered from Notifier

All made in USA except VHX-1420-HFS.

VESDA-HLI-GW: VESDA Gateway. Includes circuit board and all required cables. Requires VHX-1420-HFS, a Network Communications Module, and a Network Display Node (NCA-2, ONYXWorks, or NFS2-3030 in Network Display Mode); all ordered separately. Also requires a customer-supplied computer and Ethernet network cable (see specifications below). Made in USA.

VHX-1420-HFS: VESDAnet Network Interface Card. Includes DB-9 Connector.

NCM-W: Network Communications Module, wire version.

NCM-F: Network Communications Module, fiber version.

HS-NCM-SF: High-Speed Network Communications Module, fiber-optic cable interface.

HS-NCM-MF: High-Speed Network Communications Module, fiber-optic cable interface (multi-mode).

HS-NCM-W: High-Speed Network Communications Module, twisted-pair wire interface.

HS-NCM-MFSF: High-Speed Network Communications Module, fiber-optic cable interface (multi-mode fiber to single-mode fiber).

HS-NCM-WMF: High-Speed Network Communications Module, wire and fiber-optic cable interface (wire/multi-mode).

HS-NCM-WSF: High-Speed Network Communications Module, wire and fiber-optic cable interface (wire/single-mode).

EQUIPMENT SUPPLIED BY CUSTOMER

- **Computer:** PC running Microsoft Internet Explorer version 8 or later with the latest version of Java (required to configure VESDA-HLI-GW).
- **Ethernet cable:** Standard Ethernet network cable with RJ45 to RJ45 connectors.
- **VESDA Detectors:** Order directly from Xtralis.

Standards and Codes

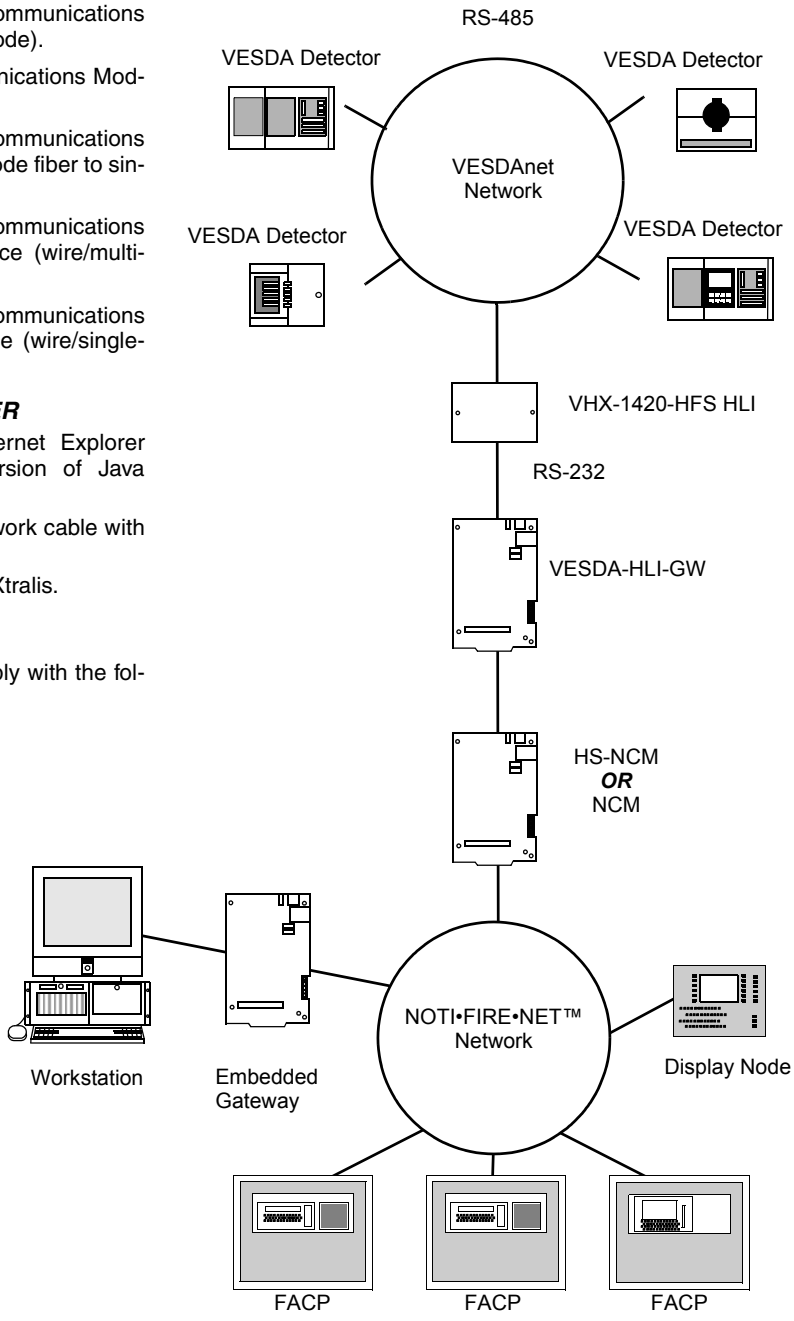
VESDA-HLI-GW and VHX-1420-HFS comply with the following standards and requirements:

- **NFPA 72** National Fire Alarm Code.
- **UL 864, 9th Edition:** Control Units for Fire Alarm Systems.
- **CAN/ULC S527-11, 3rd Edition:** Standard for Control Units for Fire Alarm Systems.
- **CAN:** CSA C22.1.
- **VESDA-HLI-GW only:**
- **UL 2017, 1st Edition:** General Purpose Signaling Devices and Systems.
- **CAN/ULC S559-13, 2nd Edition:** Standard for Equipment for Fire Signal Receiving Centres and Systems.
- **VHX-1420-HFS only:**
- **CAN:** ICES-003.

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL / ULC:** S635.



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ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

This document is not intended to be used for installation purposes.
We try to keep our product information up-to-date and accurate.
We cannot cover all specific applications or anticipate all requirements.
All specifications are subject to change without notice.

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