

MODBUS HIGH LEVEL INTERFACE (P/N 68-517)



Features

- Direct access and monitoring of the entire VESDAnet system
- Seamless data transfer
- Mounted in same room and within 20 feet (6.1 m) of the host control panel
- Easily configured using Xtralis configuring and monitoring software packages
- Compatible with Cheetah Xi and CyberCat control panels with Firmware version 7.2 or greater
- Can communicate with old and new VESDA detectors on the same VESDAnet
- Supports up to 100 VESDA detectors on a single VESDAnet network and still meet the response times required by UL 864 and NFPA 72

General

The Modbus High Level Interface (HLI) is used to intelligently link VESDA devices connected to the VESDAnet with Fike's Cheetah Xi and CyberCat control panels. A single HLI can be connected to the host control panel via its dedicated RS232 connection. Through this connection, the HLI will transmit all VESDAnet events (e.g., current airflow status, smoke level status, fault status, etc.) intelligently to the control panel where it will be displayed and the panel will respond to the events based on system programming.

The HLI assembly consists of the following components:

- Steel enclosure with cover, painted grey
- Printed carrier circuit board with PC Link Modbus HLI attached
- Communication cable, HLI to host control panel

Operation

The Modbus HLI allows each VESDA detector to report as a virtual address on the host control panel's addressable communication loop. This enables each detector to be independently programmed to the panel's "alarm only" zone, "suppression zone", or multiple zones of operation. The panel also make it possible for each detector to take part in functions such as cross-zone, count-zone, or single detector release in a suppression zone, or act as an early warning in an alarm only zone.

The HLI supports bi-directional communication to each Vesda detector. System control functions, such as Reset and Silence, can be initiated by each VESDA detector depending upon the detector type. The HLI allows the host control panel to supervise each Vesda detector for trouble (fault), pre-alarm or alarm conditions. Events are displayed on the host control panel and can also be displayed by Fike's computer graphics package Precise Vision®.

Approvals

For exact certification listings, please reference the respective agency web site.

- Underwriters Laboratories (UL)
- Factory Mutual Approved (FM)
- New York Certificate of Approval (COA)
- California State Fire Marshal (CSFM)

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Specifications

Enclosure (box and cover plate)	
Material	16 gauge carbon steel
Finish	Gray polyester powder coat
Knockouts	All four sides
Weight	6.8 lbs. (3.08 kg), with electronics
Mounting	Surface or recess
HLI	
Current	101 mA (standby and alarm) ¹⁾
Power	18-30 Vdc ²⁾
Operating temperature	32 - 120°F (0 - 49°C)
Humidity	93% relative
Panel connection	20 ft (6.1 m) RS232 serial communication cable, RJ11 connector
VESDAnet connection	Class A wiring Belden 9841 wiring or equivalent 100Ω maximum impedance 100 VESDA detectors maximum
Compatible detectors	VLC, VLP, VLS, VLF, VLI, VFT-15, VEP, VEP-1, VEP-2, VEU, VEA-40, VEA-60, VEA-80, VEA-100, VEA-120 and VES

1) Includes current draw of HLI and carrier board.

2) Supplied by host control panel or separate (standalone) power supply capable of ground fault detection and that has a ground fault relay that can be monitored by the host control panel.

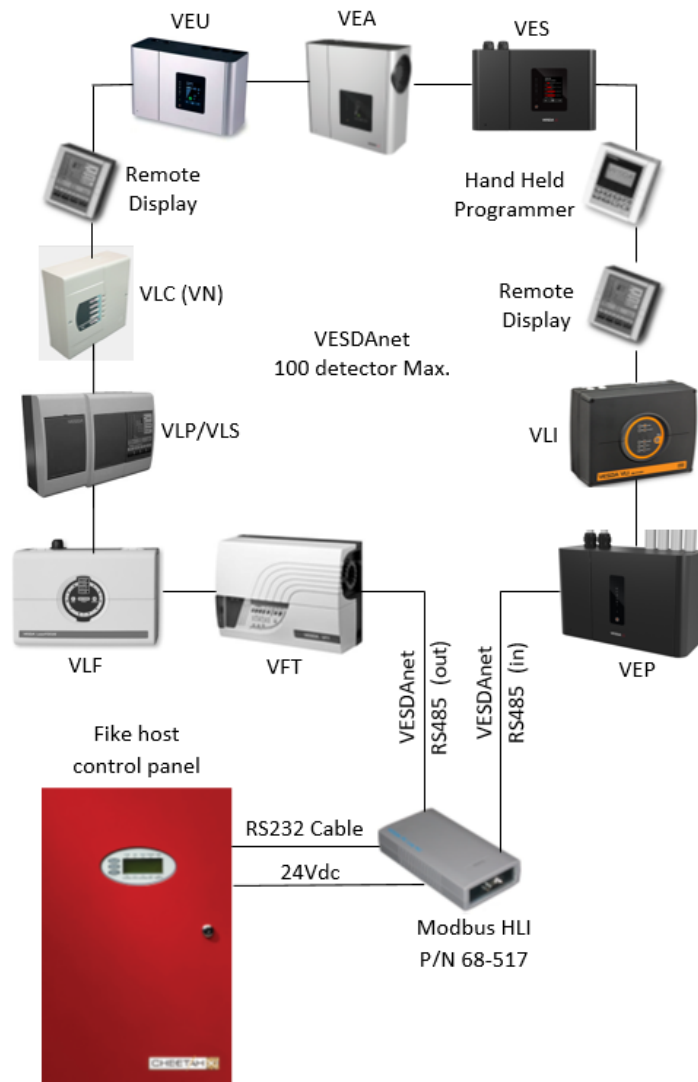
Ordering

Part Number	Description
68-517	Modbus HLI Assembly (includes enclosure, HLI, carrier board and interface cable)
10-2946	HLI Carrier Board
VHX-0420-FIK	Xtralis Modbus HLI
02-4551	HLI Enclosure, Gray
02-15802	RS232 Interface Cable, 20 feet (6.1 m) long, RJ11 connection

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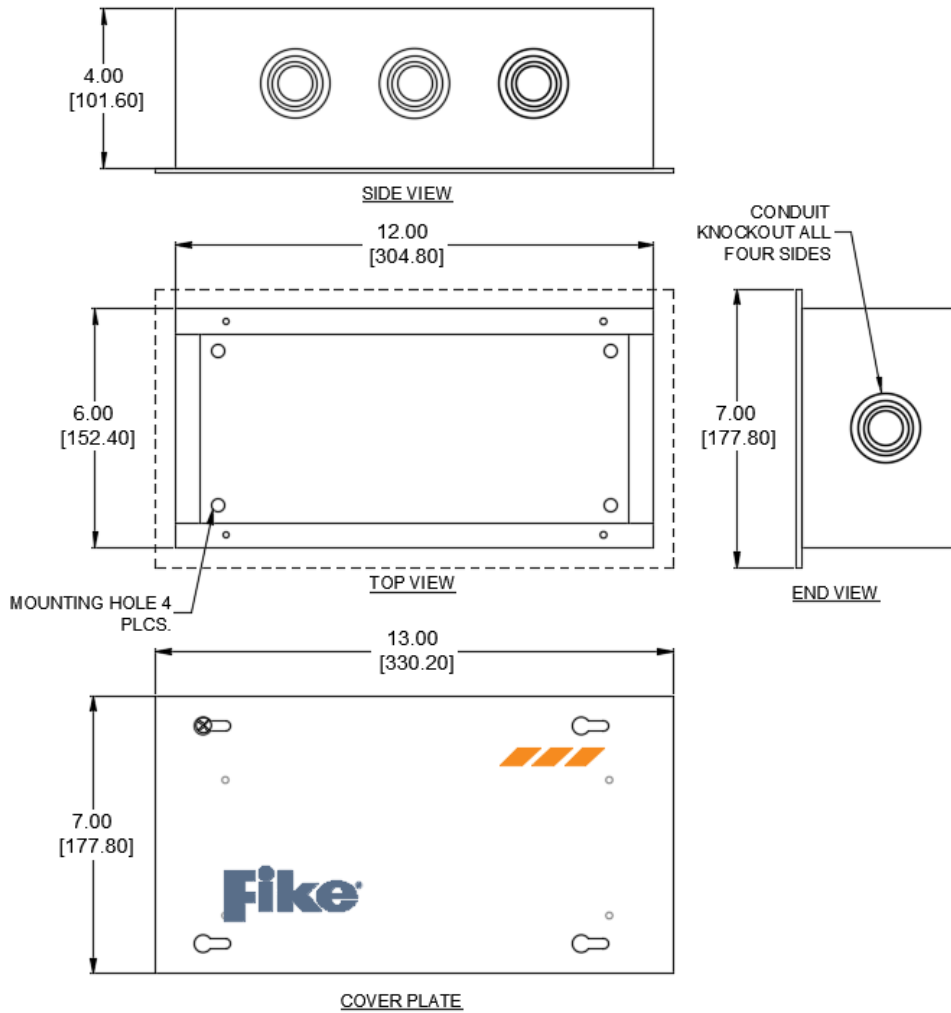
Typical VESDAnet Connection

The Fike PC Link HLI can be connected at any point on the VESDAnet network within 4000 ft. (1219 m) of the VESDA devices it's connected to.



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HLI Enclosure Dimensions



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