# Cerberus® PRO Modular system

## VESDA High-Level Interface Equipment
### Models VPM | VPM-MP and VESDA-HLI-KIT

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## Architect & Engineer Specifications

☐ **Addressable | intelligent and supervised module**

☐ **Allows for a single point of control at the Cerberus PRO Modular system panel with bi-directional data to multiple VESDA networks**

☐ **Capability for Cerberus PRO Modular system to annunciate `Alert,' `Action,' `Fire 1,' and `Fire 2' levels from any zone on any VESDA network**

☐ **Supports two (2) independent VESDA networks with up to 100 VESDA detectors each**

☐ **Downloadable module firmware**

☐ **Main-panel-enclosure or remote-panel mounting**

☐ **UL 864 Listed, ULC Listed;**

## Product Overview

The Very Early Smoke Detection Apparatus (VESDA) Peripheral Module (Model VPM) and the VESDA High-Level Interface Kit (Model VESDA-HLI-KIT) are all optional modules that work in correlation to provide bi-directional communication between the Cerberus PRO Modular system fire alarm control panel (FACP) and multiple VESDA detection networks for the following types of VESDA detectors:

- FireTRACER
- LaserCOMPACT
- LaserFOCUS
- LaserINDUSTRIAL
- LaserPLUS
- LaserSCANNER

Model VPM allows each Cerberus PRO Modular system FACP to annunciate 'Alert' | 'Action' | 'Fire 1' and 'Fire 2' levels, as well as provide 'faults' from any zone on a connected VESDA network.

Additionally, Model VPM allows a Model FCM2041-U3 Operator Interface (OI) to annunciate detailed Trouble-event codes sent by VESDAnet. When used with a VESDA LaserSCANNER, a Model FCM2041-U3 OI displays the events to an individual pipe.


Model VESDA-HLI-KIT

The VPM Mounting plate (Model VPM-MP) allows the mounting of one (1) Model VPM and two (2) of Model VESDA-HLI-KIT inside a standard Cerberus PRO Modular system Model CAB1 | Model CAB2 or Model CAB3 enclosure. Model VPM-MP utilizes two (2) module spaces on a single row of each enclosure.

The VESDA net Socket Card provides the terminals to connect the VESDAnet field wiring as well as the 24VDC power for the high-level interface (HLI) board.

The card is mounted on a Model VPM-MP stand-offs. Additional stand-offs are available on Model VPM-MP should a second card be needed.


Model VPM-MP

## Specifications

The Model VPM contains two (2) RS–232 serial ports for connection to two (2) independent VESDA high-level interfaces. Model VESDA-HLI-KIT includes one (1) set of the following devices:

- VESDA HLI
- VESDAnet socket
- 10-position, 9" (22.9 cm.) cable
- 3-wire, 6" (15.24 cm.) cable

- ☐ The 9-inch (22.9 cm.) cable is for connection between Model VPM and Model VESDA HLI.
- ☐ The 6" (15.24 cm.) cable connects a Model VESDA HLI to the VESDAnet socket.
- ☐ The VESDAnet socket is for connection to the VESDA network (VESDAnet).

Each VESDA high-level interface supports up to 100 VESDA detectors of the following types:

- FireTRACER
- LaserCOMPACT
- LaserFOCUS
- LaserINDUSTRIAL
- LaserPLUS
- LaserSCANNER

Model VPM connects to a FACP via a RS–485 interface connection to the Cerberus PRO Modular system Network Interface Card (Model NIC-C), allowing a Model VPM and Model VESDA-HLI-KIT combination to be mounted up to 2,000 feet (609.6 m.) from the main FACP.

Regulated power of 24VDC, nominal, is required to run Model VPM, and can be provided from either a Model PSC-12 Power Supply or Model PSX-12 Power Supply Extender located within the Cerberus PRO Modular system enclosure. Model VPM can also be powered by the Siemens auxiliary power supply.

## Electrical Ratings

| | |
|---|---|
| **24V BACK PLANE CURRENT:** | 0 |
| **SCREW TERMINAL 24V CURRENT:** | 150mA |
| **6.2V BACK PLANE CURRENT:** | 0 |
| **24V STANDBY CURRENT:** | 150mA |

**NOTES**: For power-supply loads, as well as battery-size calculations, each Model VPM module draws 150mA (24V screw terminal current), plus 70mA for each Model VESDA- HLI-KIT inserted under each Model VPM.

## Compatibility of Devices
— For use with **VESDA** detectors —

| DETECTOR MODEL | DETECTOR TYPE |
|---|---|
| **VFT** | FireTRACER |
| **VLC** | LaserCOMPACT |
| **VLF** | LaserFOCUS |
| **VLI** | LaserINDUSTRIAL |
| **VLP** | LaserPLUS |
| **VLS** | LaserSCANNER |

## Temperature and Humidity Range

Products are UL | ULC Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

## Details for Ordering

| MODEL OR TYPE | PART NUMBER | PRODUCT |
|---|---|---|
| VPM | S54430-F93-A2 | VESDA Peripheral Module |
| VPM-MP | S54430-F95-A2 | Mounting Plate for VESDA Peripheral Module |
| VESDA-HLI-KIT | S54430-F99-A2 | VESDA High-Level Interface |

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