Versatile
VM Mid-range Life Safety Solutions
Vigilant VM Series represents the latest generation of life safety control panels for mid to large sized applications. With large multi-message displays, intuitive interfaces, and stylish contoured cabinets — these systems capture the imagination, and catch the eye. But behind the LCD display is where they really shine.

New TCP/IP-enabled microprocessors and chipsets take full advantage of the latest advances in computing technology, leading to smarter, faster, higher-capacity processing and more efficient designs. VM Series’s patented **Voltage Boost™** technology, for example, delivers constant voltage on NAC and AUX circuits – even at low battery power – resulting in lighter cable requirements and longer runs. That saves time and money.
Go further.

VM Series delivers high performance features exactly where you need them because flexibility is where VM’s leading edge computing power is put to best use. In fact, VM Series can handle jobs that range from a single stand-alone control panel, to a sophisticated network comprising as many as eight control panels processing data from up to 4,000 devices. Optional voice evacuation bridges the gap left by other mid-range systems, and makes these panels a cost-effective solution for most applications.

Power that goes the distance
Edwards' patented Voltage Boost™ technology delivers a constant 22.5 V on NAC and AUX circuits – even at low battery power. This means lighter gauge cable can be used for equivalent distances compared with conventional power supplies, or longer wire runs on the same gauge cable. Either way, this breakthrough technology saves time and equipment costs, making VM not only a high-performance solution — but a cost-effective one as well.

Networking at the speed of light
Networking is among VM Series’ strong suits. A simple VM network can comprise up to eight panels – enough to serve the needs of most campuses and larger buildings. Highly efficient RS485 connectivity, plus fiber-optic communications deliver faster response times and more sophisticated diagnostic capabilities, while cost-effective remote annunciation solutions keep basic monitoring and control always within reach.

Tuned up and in synch
VM’s four on-board Notification Appliance Circuits are fully synchronized to UL 1971 standards — without the need for external modules or other electronics. It’s ample 10-amp power supply is finely tuned to get the most out of Edwards’ widely-acclaimed low profile Genesis notification appliances.

The smart choice
Electronic addressing eliminates the tedium of setting dipswitches, and automatic device mapping ensures that each device resides on the system at its correct location. Meanwhile, innovative programming features allow the system designer to customize powerful built-in features to precisely suit the needs of the building owner.

Versatility built right in
The VM control panel has room for three fully-programmable front panel switch/LED strips. Each strip includes 12 switches with two associated LEDs (one quad-color, and one yellow), and a custom label area. LED color designations are assigned by the installer.

Perfect for retrofits
VM Series is particularly well-suited to retrofit applications. All connections are made over standard wiring – no shielded cable required. This means that in most situations existing wiring can be used to upgrade a legacy control panel to VM Series technology without the expense or disruption of rewiring the entire building.

Face time:
VM features large tactile control buttons, quad-color LED indicators, and a 24-line by 40-character backlit LCD capable of displaying eight simultaneous events.

VM Series’ modular design makes system configuration quite literally a snap. With a range of option cards that extend networking, audio, and communications capabilities — VM control panels can easily keep pace with even the most demanding jobs. Ethernet programming and diagnostics makes these panels accessible any time, from anywhere — so service personnel can spend more time doing, and less time looking... and that makes for fewer disruptions and happier building owners.
VM option cards allow you to fine tune any application to deliver exactly the features you need at the lowest possible price.

- **VM-SLC Signaling Line Circuit Card** provides one Class B or Class A signaling line circuit loop on a VM-CPU main board that supports up to 125 detector and 125 module addresses. The card also provides resettable 24 VDC for powering conventional two-wire smoke detector circuits on V-Series modules.

- **PS10-4B Power Supply Board** provides the required power and related supervision functions for the control panel as well as filtered, regulated power. It also provides 24 VDC for operating ancillary equipment.

- **VM-PMI Paging Microphone Interface** provides controls for emergency voice/alarm communication and two-way firefighters' telephone communication. The VM-PMI consists of an audio mounting bracket, EAEC Emergency Audio Evacuation Controller card, enclosure, and paging microphone.

- **VM-MFK Master Firefighters' Telephone** adds two-way firefighters' telephone capability to a VM-PMI Paging Microphone Interface. The VM-MFK and the VM-PMI comprise the fire command center.

- **EAEC Emergency Audio Evacuation Controller Card** provides the audio source interface for emergency voice/alarms communication and two-way firefighters' telephone communication. In addition, the card includes an RJ-11 connection for downloading an audio database.

- **VM-REMICA Remote Microphone** provides remote paging capability throughout a building or campus. Each VM-REMICA has two inputs for connecting other remote microphone units. The paging circuit supports up to 63 interconnected remote paging stations.

- **VM-NOCF Fiber Network Option Module** provides a fiber optic, or combination fiber optic and RS-485 communication path, for VM-1 control panels.

- **VM-NOC RS-485 Network Option Card** is used to connect up to eight VM-1 panels. The card enables two independent RS-485 circuits for network data and digital audio communications. Class B and Class A wiring is supported.
Facilities will benefit from a sophisticated system designed and tuned to function as a whole. That's because VM features control components and field devices engineered and manufactured by Edwards to the highest standards of interoperability.

**Audio that speaks for itself**
VM Series features three channels of integrated digital audio with up to two minutes of on-board programmable message storage. Its optional paging control center includes a high quality paging microphone to which can be added a firefighters’ telephone. Auxiliary inputs are available for mass notification operations and connection to external systems.

**Economical annunciation**
Up to 30 R-Series LCD, LED annunciators and driver interface cards may be configured for each control panel on the VM Series network. Compatible annunciators include a range of LED and LCD models that provide zone or point annunciation, as well as common control capabilities. VM Series also supports graphic annunciation with optional graphic annunciator interface modules. Each interface provides common control, indicators, and 32 LEDs. Expansion units provide 48 led outputs.

**Detection you can count on**
Vigilant V-Series intelligent detectors are meticulously engineered to deliver high-performance features, superb reliability, and unbeatable quality. These detectors resist air movement caused by heating and air conditioning, making them reliable performers ideally suited to modern building interiors. All detectors feature comprehensive self-diagnostics, and continuously adjust their sensitivity to compensate for changes in the environment such as the presence of dirt, smoke, temperature, and humidity.

**Small signals, big splash**
VM’s Genesis notification appliances represent the rebirth of emergency signals with looks and features ideal for life safety and mass notification applications. Field-configurable wall strobes, horns, and chimes about the size of a deck of playing cards offer a discreet alternative to bulky devices, while speakers and ceiling models with clean modern lines blend inconspicuously with any surrounding.

**A complete system finely tuned for seamless interoperability.**
VM Series: A comprehensive suite of options, accessories, and related equipment...

VM-1 Intelligent Control Panel
Complete Fire Alarm Control Panel with user interface, CPU, one addressable loop, four Class B NACs, Universal 110/220v 10 Amp power supply. Specify VM-SLC for second loop.

Standard Features
- One Class A or Class B intelligent device loop standard, optional second loop
- 24-line by 40-character backlit LCD capable of displaying eight events
- Optional voice evacuation and firefighters’ telephone
- Three Form C relays: alarm, trouble and supervisory
- Electronic addressing with automatic device mapping
- Optional Ethernet port for diagnostics and programming
- Supports system-wide strobe synchronization
- Supports up to 30 R-Series remote annunciators
- Networkable up to eight VM control panels monitoring 4,000 intelligent points
- Patented Voltage Boost™ technology delivers constant voltage on NAC and AUX circuits — even at low battery power
- 10 Amp power supply with universal 94 to 264 Vac input voltage
- Four on-board NACs

Option Cards
- VM-SLC Signaling Line Circuit Card
- CLA-PS10 Class A Adapter, PS10 NACs
- VM-MFK Master Firefighters’ Telephone
- VM-PMI Paging Microphone Interface
- VM-REMICA Remote Microphone
- EAEC Emergency Audio Evacuation Controller
- VM-NOCF Fiber Network Option Module
- VM-NOC RS-485 Network Option Card

System Accessories
- City Tie Module. Provides connection to a local energy fire alarm box.
- Isolator Module - RS232. For use with short haul modems.
- Reverse Polarity Module.
- Single and Dual Input Signal Modules.

Intelligent Detectors & Bases
- Intelligent Multisensor Analog Optical/Fixed Temperature Detector
- Intelligent Analog Optical Smoke Detector
- Intelligent Analog Rate-of-Rise Heat Detector
- Intelligent Analog Fixed Temperature Heat Detector
- Standard Base
- Relay Detector Base
- Isolator Detector Base
- Audible (Sounder) Detector Base

Intelligent Modules
- Control Relay Modules
- Polarity Reversal Relay Modules
- Single and Dual Input Modules
- Fault Isolator Module
- Monitor Module
- Waterflow/Tamper Module
- Single and double action pull stations

Annunciators & Graphics Drivers
- Remote LCD annunciator, 4X20 display with common Indicators
- Remote LCD annunciator, 4X20 display with common Indicators and common controls
- Remote LED annunciator, 16 zones (two LEDs each) with common indicators
- Remote LED annunciator, 16 zones (two LEDs each) with common indicators and common controls
- Remote LED annunciator zone expander, 24 zones (two LED each)
- Graphic annunciator driver with outputs for 32 zones, common indicators and, common controls

Field-configurable Signaling Appliances
- Genesis Wall & Ceiling Horns, Horn-strobes
- Genesis Wall & Ceiling Speakers, Speaker-strobes
- Genesis Wall Chimes, Chime-strobes

Related Literature
- Data Sheet M85005-0133 – VM Series Life Safety Control System
- Data Sheet M85001-0592 – Intelligent Detectors and Bases
- Data Sheet M85005-0128 – R-Series Remote Annunciators
- Technical Reference 3101753 VM-1 UL Listing Document
Aim higher.

VM Series: A comprehensive suite of options, accessories, and interface requirements.

VM’s four on-board Notification Appliances provide zone or point annunciation, as well as a high-quality paging microphone to which can be added a fire fighters’ telephone. Auxiliary inputs are programmable for a variety of annunciator functions. VM control panels can easily interface with a host computer or network for As-Is documentation, reporting and wide area surveillance. VM control panels can be used as a master node or attached to a network. VM’s control panels offer a combination of cost-effective remote annunciator and communication units that are easily time and labor saving.

Stay tuned.

A complete system finely tuned for seamless interoperability.

Shine brighter

Vigilant VM Series represents the latest generation of fire safety control panels for mid-sized applications. With large multi-message displays, intuitive interfaces, and stylishly designed cabinets—these systems captivate the imagination, and catch the eye. But behind the LCD display is where they really shine.

Now CLHR-enabled transmitters and detectors take full advantage of the latest advances in computing technology, including smaller, faster, higher-quality processing and more efficient design. VM Series’ patented Voltage Boost™ technology, for example, delivers consistent voltage— even at low battery power—resulting in lighter cable requirements and longer runs. That saves time and money.

Go further.

VM Series offers high performance digital signal processing to optimize event capture and deliver high-quality audio to remote annunciators—no matter the location. VM Series provides an advanced feature set designed to foster system excellence. Field configurable Signaling Appliances make the system finery, providing an array of options for system configuration and device mapping.

Highly efficient RS-485 connectivity, networking at the speed of light, and that makes for simultaneous events.

Related Literature

• Standard Features

• Complete Fire Alarm Control Panel with user interface, accessories, and related equipment...

• Precedent Series

• Edwards’ patented Single and Dual Input Signal Modules.

• Isolator Module - RS232. For use with short loop and multiple detectors...

• City Tie Module. Provides connection to a local fire alarm panel...

• VM-NOC RS-485 Network Option Card

• 10 Amp power supply with universal 94 to 264 VAC...

• Supports system-wide strobe synchronization...

• Electronic addressing with automatic photoelectric and ionization smoke detectors...

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