

VoiceAlert

Voice Evacuation System



VF9700 Master Panel

VF9755 Distributed Panel

Standard Features

- True Multiplex 6 Channel Distributed Audio
- Integrated Fire Phone, Area of Rescue and Fan & Damper Control capability
- Modular System - components added as needed
- Integrated 2 Channel Digital Message Repeater
- Live Microphone Page to any zone
- Fast RS-485 Communication Protocol
- Easy Installation and Operation
- Natural Sound Voice Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panel
- Listed with for use with the Elite FACP
- 3 Minute Message Restart on Microphone Key
- Fully Supervised

Operation - Basic System includes

Master Panel (VF9700)

- Master Mic Control
- 16 switch control points
- Dual Channel DMR
- High speed communication loop

Distributed Panel (VF9755)*

- 4 Output Zones (may be configured for 8)
- Dual Channel Audio Interface
- Dual Channel Amplification

Optional

- Integrated Fire Phone
- Area-of-Rescue
- Fan and Damper system control

Maximum System Configuration

- Up to 256 Distributed Panels (VF9755)
- Up to 2028 monitor and control points

*Number of distributed panels to be determined by building specifications

Product Overview

- The VES VoiceAlert High Rise Evacuation System operates in conjunction with the Elite Fire Alarm Control Panel (FACP) in a building to provide automatic response to life safety emergencies. The VoiceAlert system includes all necessary features to provide an effective voice evacuation system. The VoiceAlert can be custom configured to satisfy the needs of any high rise application.
- Fire department authorities can easily take command of evacuation or relocation procedures and emergencies. Building management and fire brigades can monitor and control emergency response even before the professionals arrive. The VoiceAlert system includes capacity for 6 Channels of simultaneous audio. This provides for evacuation, stay-in-place, or other public address announcements and automatic messages.
- Fire Fighter Phones or Warden Stations may be included as required. Area-of-Rescue stations can reassure handicapped occupants that help is on the way. Smoke control, stair pressurization, and HVAC shutdown can be completely automatic, unless controlled manually by management or fire authorities.
- **Military Emergency VoiceAlert Systems - DOD Compliant**
- The U.S. Department of Defense is requiring mass notification systems in inhabited buildings.
- The ability to quickly broadcast pre-recorded and live warnings to all personnel is considered essential in reducing casualties in the event of attack on DOD facilities.
- The VoiceAlert VMX supervised emergency voice alert system meets or exceeds DOD Minimum Anti-terrorism Standards for Buildings, UFC 4-010-01. It is also compliant with UFC 4-021-01, Design and O & M Mass Notification Systems.

Voice Alert Panel Options

VF9520	Mother Board
VF9521	Fire Phone Input Card
VF9522	Fire Phone Output Card
VF9524	Warden Station
VF9535	Extended Input Interface
VF9558	Class A Return Module
VF9720	Master Panel, 16 Zone, Red
VF9722	Master Panel, 32 Zone, Red
VF9724	Master Panel, 48 Zone, Red
VF9726	Master Panel, 64 Zone, Red
VF9728	Master Panel, 80 Zone, Red
VF9730	Master Panel, 96 Zone, Red
VF9740	Master Panel, 16 Zone, w/Phone, Red
VF9742	Master Panel, 32 Zone, w/Phone, Red
VF9744	Master Panel, 48 Zone, w/Phone, Red
VF9746	Master Panel, 64 Zone, w/Phone, Red
VF9748	Master Panel, 80 Zone, w/Phone, Red
VF9750	Master Panel, 96 Zone, w/Phone, Red
VF9760	Distributed Panel, Single, 25W, Red
VF9762	Distributed Panel, Single, 50W, Red
VF9764	Distributed Panel, Single, 100W, Red
VF9768	Distributed Panel, Single, 50W, w/Phone, Red
VF9770	Distributed Panel, Single, 100W, w/Phone, Red
VF9774	Distributed Panel, Dual, 50W, Red
VF9776	Distributed Panel, Dual, 100W, Red
VF9778	Distributed Panel, Single, 25W, w/Phone, Red
VF9780	Distributed Panel, Dual, 50W, w/Phone, Red
VF9782	Distributed Panel, Dual, 100W, w/Phone, Red
VF9793	Distributed Panel, Dual, 200W, w/Phone, Red
VF4405	Speaker, Wall Red (E50)
VF4409	Speaker Ceiling 2 Watt Red (E60)

VoiceAlert Voice Evacuation System Components

VF9315 Audio Module Interface

Controls two VF9212/9236/9256 amplifier modules in remote distribution panels. One required when adding back up amplification to a Dual channel system. Uses an addition slot on a VF9227.

VF9316 Audio System Control

Provides digitally stored Message Control. Has two RS232 com ports.

VF9546 Back-up Amplifier switching relay

One required for each Distributed Amp when automatic switching / redundant amplification is needed. On a single Channel system the back up amplifier can be located in any 9755 Series panel. On a Dual Channel system an additional VF9315 card, and Amplifier assembly is required (the # represents the largest power amplifier in the system 25/50/100).

VF9547 Back-up Amplifier switching relay Class "A"

One required for each Distributed Amp plus the "spare" amplifier when automatic switching / redundant amplification is needed Class "A" wiring. On a single Channel system the "spare" amplifier can be located in any 9755 Series panel. On a Dual Channel system an additional VF9315 card, and Amplifier assembly is required (the # represents the largest power amplifier in the system 25/50/100).

VF9525 Break Out Card

Used to provide terminal connections from 10 Pin ribbon cable for wiring termination. (2 required) Needed when Dual Channel Back-Up Amplification is required.

VF9545 Data Communications Controller

A VF9545 is located in the Master Panel and each Distributed Panel the VF9545 is the connection point for the NETCOMM communications. The Data loop must be wired style 6 or 7 (Style 7 preferred) (must have return data loop). Replacement Card, typically preprogrammed from the factory.

VF9537 Fiber Optic Transceiver

Provides termination for Fiber Optic communications between the Master Panel and the Distributed Panels.

VF9548 Fiber Optic Style 7 card

Master Panel Fiber Optic card (1 per system) required when Style 7 Fiber Optic communications is used. The VF9548 card converts the secondary (style 7) data loop to a data signal that can be sent on the Fiber Optic secondary loop.

VF9521 Fire Phone Interface

Provides 4 supervised Class "B" Fire Phone circuits in distributed panel (4max 16 circuits). When more then one is used in a 9755 Series panel a VF9522 card is required for each.

VF9522 Fire Phone Output Adapter

Extra terminal card that must be used with the 2nd, 3rd & 4th VF9521 cards in a 9755 Series panel.

VF9549 Fire Phone Output Adapter

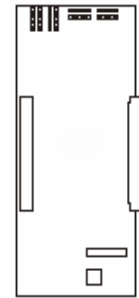
Extra break out card that must be used with the 2ND, 3RD & 4TH MX-FPI cards in a 9755 Series panel. This card aligns all 4 Fire Phone circuits vertically.

VF9318 Fire Phone Relay

Warden station reverse polarity relay for NYC applications.

VF9541 Isolated Network Bridge

Network interface when a Master Panel is needed to communicate with remote Master Panels running their own systems.



VF9315



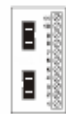
VF9316



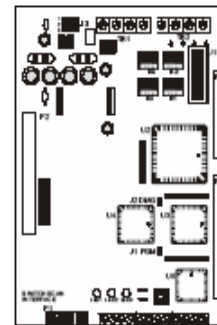
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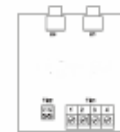
VF9547



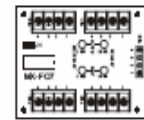
VF9525



VF9545



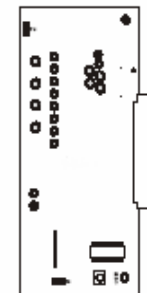
VF9537



VF9548



VF9549



VF9521



VF9522



VF9318



VF9526



VF9541

VF9526 Input Interface Card

Hardwired conventional control input interface/trigger. Required when using any triggers other the VES Intelligent Interface. Provides 16 inputs and control for up to 7 additional input cards (128 inputs). System capacity for up to 16 VF9526cards (2048 inputs). TTL or dry contract input. Also accepts a reverse polarity NAC circuit trigger.

VF9240 VoiceAlert Voice Evacuation System

Features

- Clean Dead-front Construction
- Digitally Recorded Automatic Evacuation Message
- (Up to 4 Minutes of Message Capacity)
- 100 Watt High Efficiency Digital Amplifier
- 25 or 70 VRMS Field Selectable
- 120 VAC Power Supply and Battery Charger
- Live Microphone Override of Message and Tone
- Analog Addressable Compatible
- High Reliability, No Maintenance,
- Fully Supervised
- Easy Installation and Operation
- Natural Sound Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panels
- Works with Analog/Addressable and
- Microprocessor based Fire Alarm Panels.
- 3 Minute Message Restart on Microphone Key
- 24 Hour Backup with two 12V 7AHr Batteries
- Made in the USA.

Description

The VF9240 Voice Evacuation System provides 100 Watts of speaker power.

The VF9240 includes all necessary features to provide an effective voice evacuation system. With the addition of zone splitters, remote microphone panels and expander modules, VF9240 can be custom configured to satisfy the needs of most applications.

The VF9240 has its own power supply and battery charger. Panel must be wired with 120VAC and standby batteries connected.

A digital message repeater (DMR) is built into the VF9240. The selection of alarm tone and automatic message repeats, as well as the 6 Hour delay of the AC power failure reporting feature are all field configurable.

The paging microphone is an integral component. Trouble” condition which will be reported locally, as well as through the FACP.



VF9240 shown with key-lock-door removed

Listings:

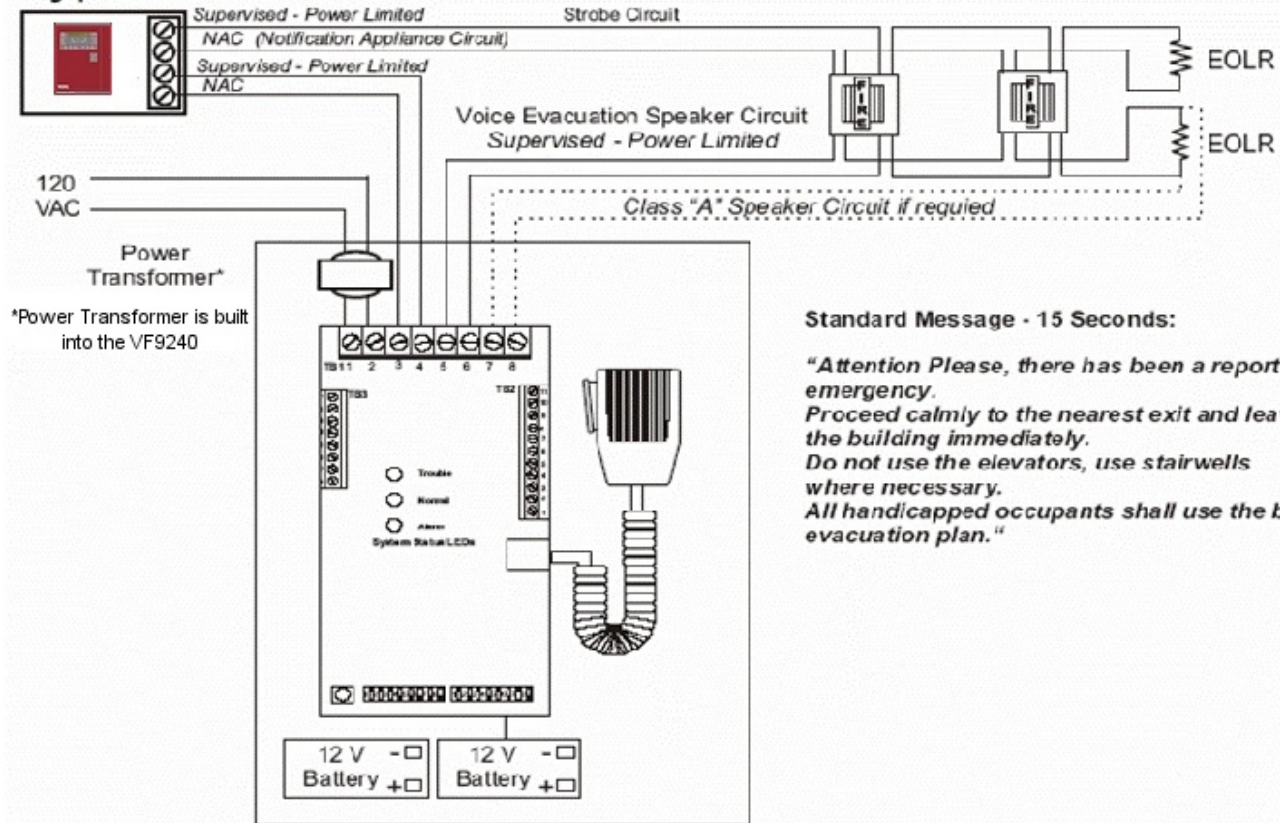


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Model Number	Description
VF9240	100W Voice Evacuation System with Power Supply / Battery Charger Paging Microphone Digital Message Repeater
VF9241	100W Voice Evacuation System with 4 Speaker Zones
VF9242	100W Voice Evacuation System with 8 Speaker Zones
VF9243	100W Voice Evacuation System with 12 Speaker Zones in a Large Cabinet 14.5 x 27 x 4” w*h*d*
VF9244	100W Voice Evacuation System with 16 Speaker Zones in a Large Cabinet 14.5 x 27 x 4” w*h*d*

Color— VFXXXX-10 for Red and VFXXXX- 20 for Charcoal

Typical Installation:



Standard Message - 15 Seconds:

"Attention Please, there has been a report of an emergency. Proceed calmly to the nearest exit and leave the building immediately. Do not use the elevators, use stairwells where necessary. All handicapped occupants shall use the building evacuation plan."

Technical Characteristic

Primary Power:	120VAC @ 2A
24 VDC Battery Power:	0.180A Standby 2.5A Alarm
Output:	100 Watts @ 25/70 VRMS Tone and Voice
Backbox Dim:	14.5 x 18 x 4" w-h-d
Color:	Charcoal Grey-std Red-optional

Engineers Specification

The Voice Evacuation system shall be VES VF9240 or approved equal.

The voice evacuation system shall provide 100 watts signal power and 100 watts voice power, and shall be UL listed. All speaker circuits shall be field selectable for 25 or 70 Vrms and shall be power limited.

The voice evacuation system shall be micro-processor based, and shall contain an integral microphone, 100 watt audio amplifier, tone generator, digital message repeater, 120VAC power supply and battery charger.

Engineers Specifications (Continued)

The voice evacuation message/signal shall be broadcast until the Fire Alarm Control Panel (FACP) is reset, or until fire emergency personnel interrupt the broadcast with a manual page. On reset system shall automatically return to standby (normal operating) condition.

A secondary message shall be provided which can be triggered by the closure of a contact from either the FACP or from any normally open contact device.

Remote paging microphone (s) will be supported by the system through a supervised circuit. Remote microphone (s) may be mounted up to 5,000 feet away from the voice evacuation panel.

VF9220 VoiceAlert Voice Evacuation System

Features

- Clean Dead-front Construction
- Digitally Recorded Automatic Evacuation Message
- (Up to 4 Minutes of Message Capacity)
- 50 Watt High Efficiency Digital Amplifier
- 25 or 70 VRMS Field Selectable
- 120 VAC Power Supply and Battery Charger
- Live Microphone Override of Message and Tone
- Analog Addressable Compatible
- High Reliability, No Maintenance,
- Fully Supervised
- Easy Installation and Operation
- Natural Sound Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panels
- Works with Analog/Addressable and
- Microprocessor based Fire Alarm Panels.
- 3 Minute Message Restart on Microphone Key
- 24 Hour Backup with two 12V 7Ahr Batteries

Description

The VF9220 Voice Evacuation System provides 50 Watts of speaker power.

The VF9220 includes all necessary features to provide an effective voice evacuation system. With the addition of zone splitters, remote microphone panels and expander modules, the VF9220 can be custom configured to satisfy the needs of most applications.

The VoiceAlert 50 has its own power supply and battery charger. Panel must be wired with 120VAC and standby batteries connected.

A digital message repeater (DMR) is built into the VF9220. The selection of alarm tone and automatic message repeats, as well as the 6 Hour delay of the AC power failure reporting feature are all field configurable.

The paging microphone is an integral component. Trouble" condition which will be reported locally, as well as through the FACP.



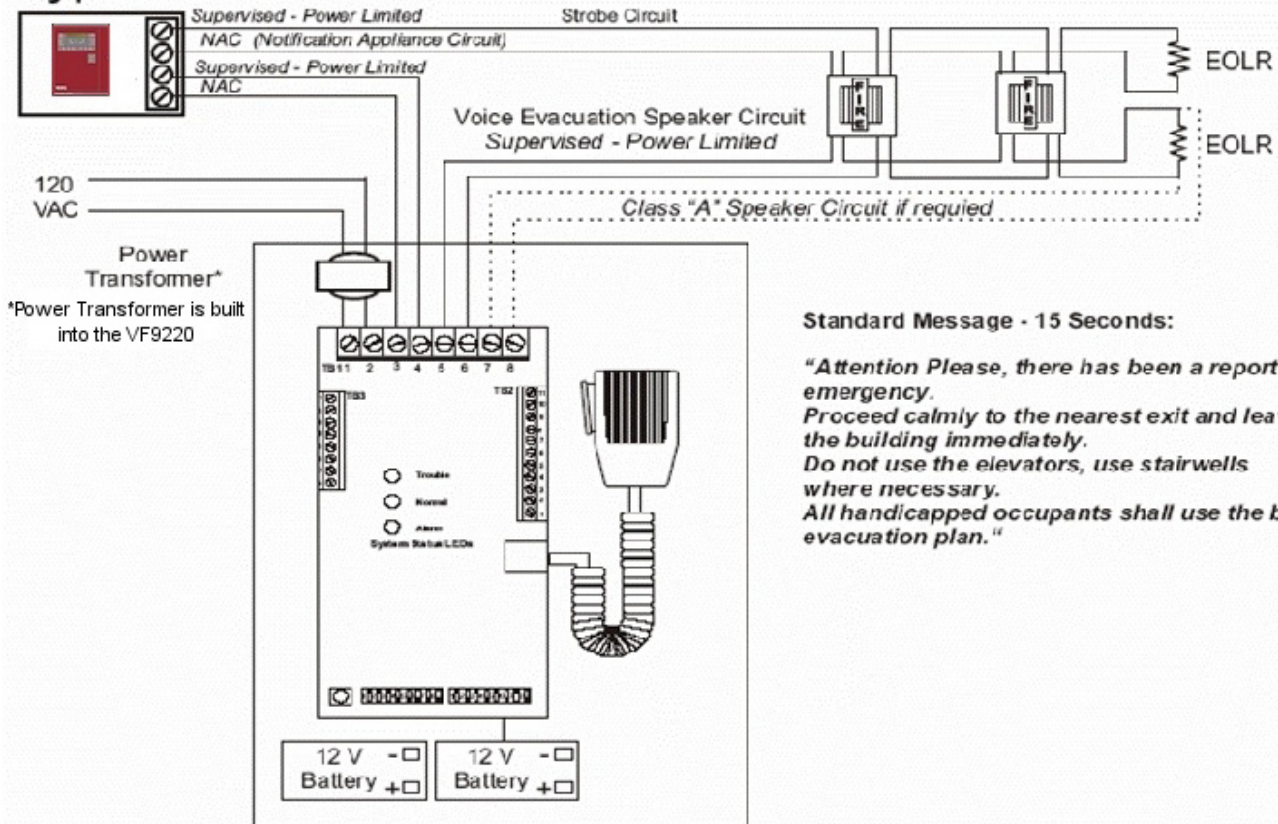
VF9220 is shown above with door removed. The door of the VF9220 contains a key-lock for security.

Listings:



Model Number	Description
VF9220	50W Voice Evacuation System with Power Supply / Battery Charger Paging Microphone
VF9221	50W Voice Evacuation System with 4 Speaker Zones
VF9222	50W Voice Evacuation System with 8 Speaker Zones
VF9223	50W Voice Evacuation System with 12 Speaker Zones
VF9224	50W Voice Evacuation System with 16 Speaker Zones

Typical Installation:



Standard Message - 15 Seconds:

*"Attention Please, there has been a report of an emergency.
Proceed calmly to the nearest exit and leave the building immediately.
Do not use the elevators, use stairwells where necessary.
All handicapped occupants shall use the building evacuation plan."*

Technical Characteristic

Primary Power:	120VAC @ 0.6A
24 VDC Battery Power:	0.130A Standby 1.0A Alarm
Output:	50 Watts @ 25/70 VRMS Tone <i>and</i> Voice
Backbox Dim:	14.5 x 18 x 4" w·h·d
Color:	Charcoal Grey·std Red·optional

Engineers Specification

The Voice Evacuation system shall be VES VF9220 or approved equal.

The voice evacuation system shall provide 50 watts signal power and 50 watts voice power, and shall be UL listed.

The voice evacuation system shall be micro-processor based, and shall contain an integral microphone, 50 watt audio amplifier, tone generator, digital message repeater, 120VAC power supply and battery charger.

Engineers Specifications (Continued)

The voice evacuation message/signal shall be broadcast until the Fire Alarm Control Panel (FACP) is reset, or until fire emergency personnel interrupt the broadcast with a manual page. On reset system shall automatically return to standby (normal operating) condition.

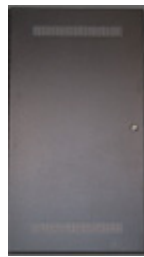
A secondary message shall be provided which can be triggered by the closure of a contact from either the FACP or from any normally open contact device.

Remote paging microphone (s) will be supported by the system through a supervised circuit. Remote microphone may be mounted up to 5,000 feet away from the voice evacuation panel.

VoiceAlert VMX Voice Evacuation System



Master Panel



Distributed Panel

Fire Phone Station



Fire Phone Jack

Application

The VES VoiceAlert High Rise Evacuation System operates in conjunction with the Elite Fire Alarm Control Panel (FACP) in a building to provide automatic response to life safety emergencies.

The VoiceAlert system includes all necessary features to provide an effective voice evacuation system. The VoiceAlert can be custom configured to satisfy the needs of any high rise application. Fire department authorities can easily take command of evacuation or relocation procedures and emergencies.

Building management and fire brigades can monitor and control emergency response even before the professionals arrive. The VoiceAlert system includes capacity for 6 Channels of simultaneous audio. This provides for evacuation, stay-in-place, or other public address announcements and automatic messages.

Fire Fighter Phones or Warden Stations may be included as required. Area-of-Rescue stations can reassure handicapped occupants that help is on the way. Smoke control, stair pressurization, and HVAC shutdown can be completely automatic, unless controlled manually by management or fire authorities.

Operation

Basic System

- Master Panel (VoiceAlert)
- Master Mic Control
- 16 switch control points
- Dual Channel DMR
- High speed communication loop
- Distributed Panel
- 4 Output Zones (may be configured for 8)
- Dual Channel Audio Interface
- Dual Channel Amplification

Optional

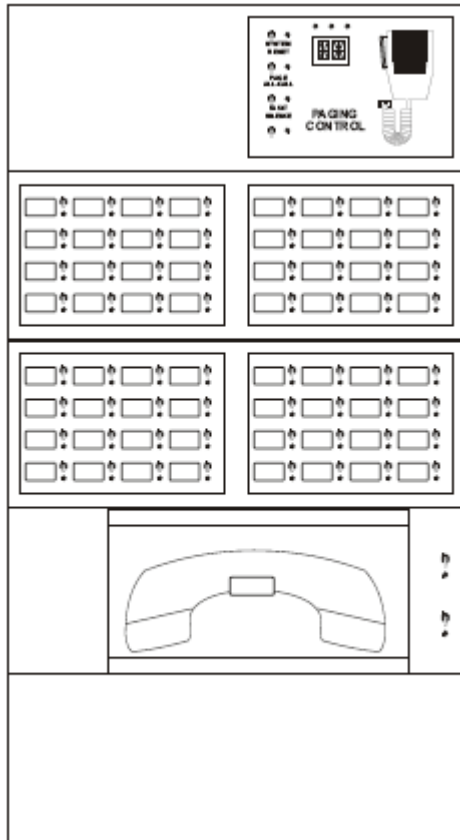
- Integrated Fire Phone
- Area-of-Rescue
- Fan and Damper system control
- Number of distributed panels to be determined by building specifications*
- Maximum System Configuration
- Up to 256 Distributed Panels
- Up to 2028 monitor and control points

Standard Features

- True Multiplex 6 Channel Distributed Audio
- Integrated Fire Phone, Area of Rescue and Fan & Damper Control capability
- Modular System - components added as needed
- Integrated 2 Channel Digital Message Repeater
- Live Microphone Page to any zone
- Fast RS-485 Communication Protocol
- Easy Installation and Operation
- Natural Sound Voice Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panel
- Listed with for use with the Elite FACP
- 3 Minute Message Restart on Microphone Key
- Fully Supervised



System Diagram



Basic System Configuration

Basic System

- Master Panel
- Master Mic
- 16 Switch Control Module
- Dual Channel DMR
- High Speed Communications Loop

Distributed Panels

- 4 Output Zones
- Dual Channel Audio Interface
- Dual Channel Amplification
- Optional Intergrated Fire Phone
- Area-of- Refuge
- Fan and Damper System Control



VoiceAlert VMX Fire Phone Equipment

Description

Fire Phone accessories give the VMX system two-way communication capability.

Fire Phone jacks are mounted on a single gang plate. Fixed telephone and warden stations are available in surface / semi-flush mount cabinet with a thumb-turn-latch.

MEA



VF9512

Ordering Information

Model Number	Description
VF9512	Telephone Jack Brushed Stainless Steel Single Gang Plate
VF9511	Portable Handset Color - Red (6 mount in VF9510 cabinet)
VF9510	Telephone Cabinet Holds 6 VF511 Portable Handset Cabinet: Charcoal Gray std. -10 Red (Surface / Semi-Flush Mount / Key Lock 27 x 14-1/2 x 4" h-w-d)
VF9514	Fire Phone Station Coil cord / Thumb Turn Latch Cabinet: Red (Surface / Semi-Flush Mount 12-3/4 x 7-1/4 x 3-3/4" h-w-d)
VF9517	Warden Station Armored cable / Thumb Turn Latch Cabinet: Red (Surface / Semi-Flush Mount 12-3/4 x 7-1/4 x 3-3/4" h-w-d)



VF9511



VF9510



VF9514 - VF9517

VF9260 and VF9280 VoiceAlert Voice Evacuation System

Features

- Dead-front Construction
- Digitally Recorded Automatic Evacuation Message
- (Up to 4 Minutes of Message Capacity)
- 50/100 Watt Bullet-Proof Amplifier
- 25 or 70 VRMS Field Selectable
- 120 VAC Power Supply and Battery Charger
- Live Microphone Override of Message and Tone
- Analog Addressable Compatible
- High Reliability, No Maintenance,
- Fully Supervised
- Easy Installation and Operation
- Natural Sound Recordings
- Built in Alarm and Alert Signals
- Up to 4 Minute Message Capacity
- Works with 12VDC or 24VDC Fire Alarm Panel
- Works with Analog/Addressable and
- Microprocessor based Fire Alarm Panels.

Description

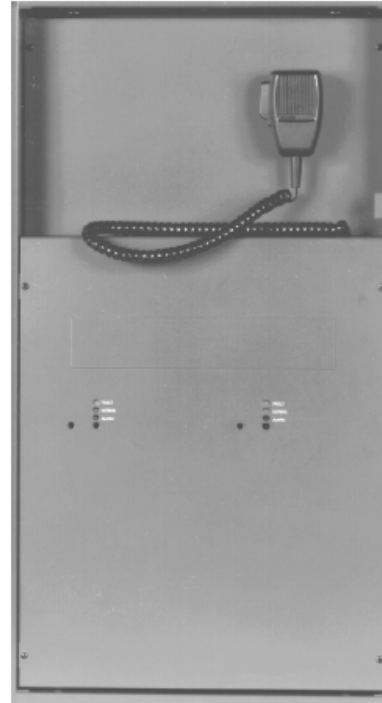
The VF9260 / VF9280 panels provide 200W and 150W of speaker power respectively. Speaker zones can be configured for general alarm or alarm by zone operation as required.

Digital message repeater, microphone, 120 VAC power supply and battery charger are all built in.

VoiceAlert voice evacuation panels can be configured for Churches, Restaurants, Movie Theaters, Auditoriums and High Rise buildings.

The VF9260 / VF9280 panels are an attractive surface or semi-flush mounted back boxes, with a hinged and key locked door.

Model Number	Description
VF9260	150W Voice Evacuation System with 2 Speaker Circuits 1 - 100W 1 - 50W Power Supply / Battery Charger Paging Microphone Digital Message Repeater
VF9261	150W Voice Evacuation System with 8 Speaker Zones 100W / 4Z 50W / 4Z
VF9262	150W Voice Evacuation System with 12 Speaker Zones 100W / 8Z 50W / 4Z
VF9263	150W Voice Evacuation System with 16 Speaker Zones 100W/8Z 50W/8Z



The VoiceAlert device above is shown with the key-lock-door removed.

Listings:

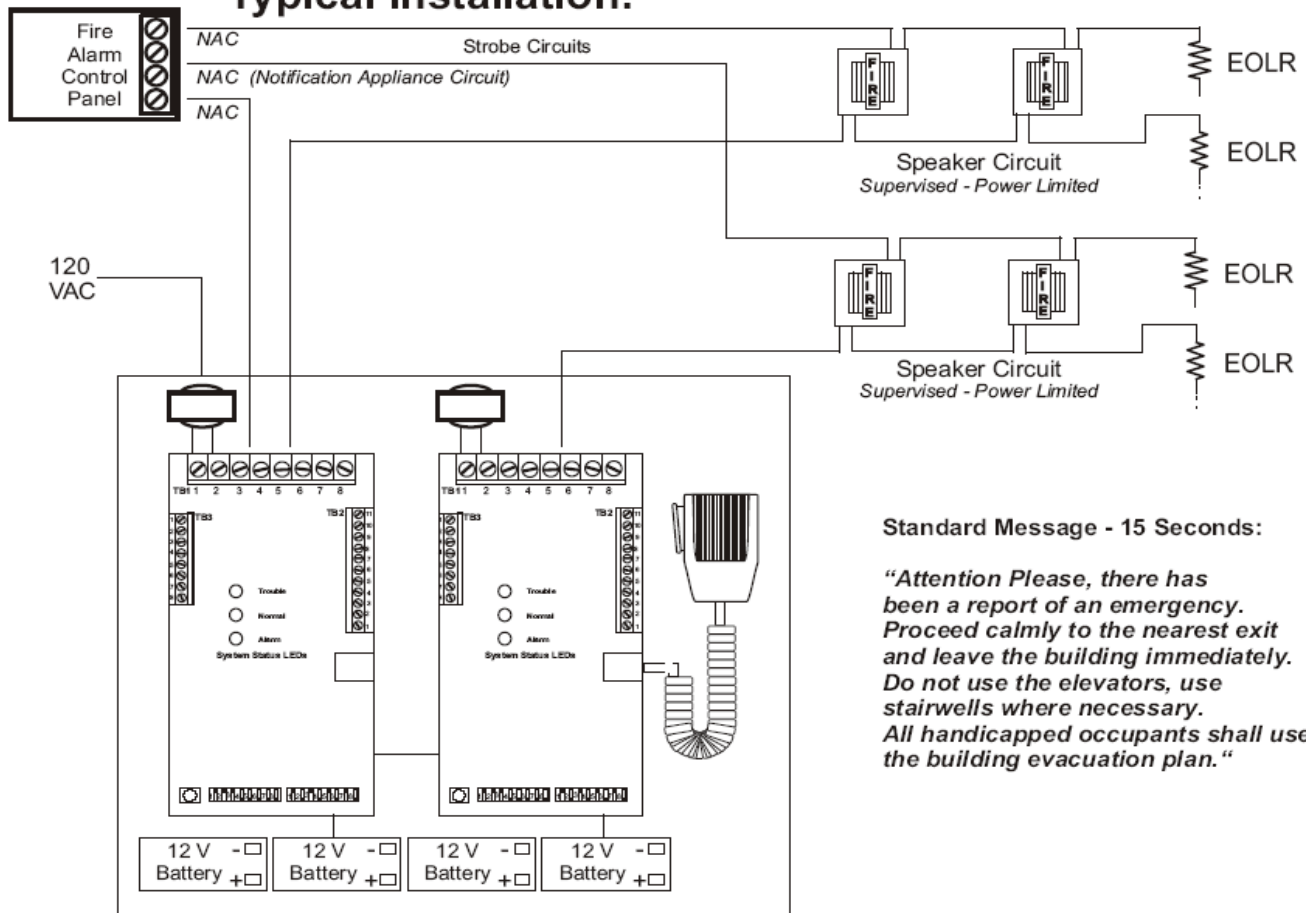


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Model Number	Description
VF9280	200W Voice Evacuation System with 2 Speaker Circuits 100W each Power Supply / Battery Charger Paging Microphone Digital Message Repeater
VF9281	200W Voice Evacuation System with 8 Speaker Zones 100W / 4Z 100W / 4Z
VF9282	200W Voice Evacuation System with 12 Speaker Zones 100W / 8Z 100W / 4Z
VF9283	200W Voice Evacuation System with 16 Speaker Zones 100W / 8Z 100W / 8Z

Color— VFXXXX-10 for Red, VFXXXX-20 for charcoal

Typical Installation:



Standard Message - 15 Seconds:

“Attention Please, there has been a report of an emergency. Proceed calmly to the nearest exit and leave the building immediately. Do not use the elevators, use stairwells where necessary. All handicapped occupants shall use the building evacuation plan.”

Technical Characteristic

100W VoiceAlert Module

Primary Power	120VAC @ 2A
24 VDC Battery Power	Standby 0.18A Alarm 2.5A
Output	100 Watts @ 25/70 VRMS Tone and Voice

50W VoiceAlert Module

Primary Power	120VAC @ 2A
24 VDC Battery Power	Standby 0.13A Alarm 1.0A
Output	50 Watts @ 25/70 VRMS Tone and Voice
Backbox Dim	14.5 x 27 x 4" w h d
Color	Charcoal Grey <i>std</i> Red <i>optional</i>

The specifications listed above are provided per module.

Engineers Specification

The Voice Evacuation system shall be VES or approved equal.

The voice evacuation system shall provide 100 watts signal power **and** 100 watts voice power, and shall be UL listed. All speaker circuits shall be field selectable for 25 or 70 Vrms and shall be power limited.

The voice evacuation system shall provide 200 / 150 Watts of signal **and** voice power, and shall be UL listed. All speaker circuits shall be field selectable for 25 or 70 Vrms operation and shall be power limited.

The voice evacuation system shall be micro-processor based, and shall contain an integral microphone, audio amplifier, tone generator and digital message repeater.

A 120 VAC Power Supply and battery charger for standby batteries shall be included.

The voice evacuation message/signal shall be broadcast until the FACP is reset, or until fire emergency personnel interrupt the broadcast with a manual page. Remote paging microphone will be supported through a supervised circuit.