### NFVP Series Voice Evacuation System

#### NFVP-25/50/100

**Features**
- Clean Dead-Front Construction
- 8 Megabyte MP3 Driver with Message Capacity of 20 Minutes
- 25/50/100 Watt Bulb-Proof Amplifier
- 25 or 70 V RMS Field Selectable Class A / B Speaker Circuit
- 240 VAC Power Supply and Battery Charger
- Live Microphone Volume of Message and Tone
- Analog Addressable Compatible
- High Reliability, No Maintenance, Fully Supervised
- Easy Installation and Operation
- Studio Quality Voice Recordings Built-In Alarm and Alert Signals
- Works with 12VDC or 24VDC Fire Alarm Panels Works with Microprocessor based and Networked Fire Alarm Systems
- 3 Minute Message Record on Microphone Key
- 24 Hour Backup with two 12V 7Ah Batteries
- Made in the USA

**Description**

The NFVP-25, NFVP-50 & NFVP-100 panels operate with any Fire Alarm Control Panel (FACP) and provide 25, 50 or 100 Watts of speaker power. The NFVP panel has its own power supply and battery charger. The panel must be wired with 240 VAC and standby batteries connected. The NFVP panel is housed in a surface or semi-flush mounted back box with a hinged and key locked door.

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

The paging microphone is an integral component. Removal of the microphone from the panel will cause a "Trouble" condition which will be reported locally, as well as through the FACP.

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

#### Technical Specifications

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>Primary Power</th>
<th>240VAC Battery Power</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFVP-25</td>
<td>0.65A Standby</td>
<td>0.6A Alarm</td>
<td>25 Watts @ 25/70V RMS</td>
</tr>
<tr>
<td>NFVP-50</td>
<td>0.27A Standby</td>
<td>0.9A Alarm</td>
<td>50 Watts @ 25/70V RMS</td>
</tr>
<tr>
<td>NFVP-100</td>
<td>0.53A Standby</td>
<td>0.6A Alarm</td>
<td>100 Watts @ 25/70V RMS</td>
</tr>
</tbody>
</table>

#### Back Box
- Dimensions: W: 38.83cm (14.5 inches), H: 45.72cm (18 inches), D: 10.16cm (4 inches)
- Color: Charcoal Grey (Standard) / Red (Options)

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### Ordering Information

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>LB (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFVP-25/8Z</td>
<td>Available with: 8 Speaker Zones [62]</td>
<td>29 (13.2)</td>
</tr>
<tr>
<td>NFVP-30</td>
<td>50 W Voice Evacuation System with: Power Supply / Battery Charger / Paging Microphone / Digital Message Repeater</td>
<td>32 (14.5)</td>
</tr>
<tr>
<td>NFVP-30/8Z</td>
<td>Available with: 8 Speaker Zones [62]</td>
<td>32 (14.5)</td>
</tr>
<tr>
<td>NFVP-50</td>
<td>100 W Voice Evacuation System with: Power Supply / Battery Charger / Paging Microphone / Digital Message Repeater</td>
<td>32 (14.5)</td>
</tr>
<tr>
<td>NFVP-100</td>
<td>200 W Voice Evacuation System with: Power Supply / Battery Charger / Paging Microphone / Digital Message Repeater</td>
<td>32 (14.5)</td>
</tr>
</tbody>
</table>

**Note:** The 42/82/122/62 models require the included NFVP-2Z-ASSM cardbyp.
**Typical Wiring NFVP-25/50/100**

- **Fire Alarm Control Panel**
  - Supervised - Power Limited
  - Voice Evacuation Speaker Circuit
  - Supervised - Power Limited
- **12 V Battery**
- **240 VAC**
- **Power Transformer** (NAC, Notification Appliance Circuit)

**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 elevator, use stairwells where necessary. All handicapped occupants shall use the building evacuation plan."

**NFVX Accessory Equipment**

- **NFVX-ZM - Supervised Zone Module**
- **NFVX-SLB - LED Switch Card**
- **NFVX-ILB - LED Input Card**
- **NFVX-OLB - LED Output Card**

- All cards connect and communicate over 10 pin ribbon cable.
- Up to 16 total cards per panel in any combination.

**NFVX - ZM Supervised Zone Module**

- Current draw (24VDC input): 51mA (Standby), 130mA (All Call)
- 4 Class B or 2 Class A speaker circuits (Field selectable)
- 25/70 Vrms Field selectable
- Compatible with NFVX-ILB for zone selection
- Circuits rated up to 50W @ 70V and 40W @ 25V

The NFVX-ZM Supervised Zone Module is used in conjunction with the NFVP Series Voice Evacuation Panels to provide separately supervised and protected circuits from a single speaker output. The NFVX-ZM is default configured for 4 Class B circuits, but may be converted to 2 Class A with the flip of a switch. The NFVX-ZM can be ganged together to provide a maximum of 64 Class B circuits.

The NFVX-ZM in standard operating mode is strictly All Call. On any page, alarm, or message function all circuits activate. If separate zoning is required, the NFVX-ZM has zone selection inputs which may be activated by a N.O. (any contact). Additionally, the NFVX-ILB (LED Switch Card) may be employed to provide both Zonal and Message selection by switch. Each speaker circuit employs analog power metering to assure short circuit conditions are isolated from the other circuits. Each circuit is rated 50W @ 70V and 40W @ 25V.

**Engineering Specifications**

The voice evacuation system shall be NFVP Series NFVP-25, NFVP-50, NFVP-100 or approved equal. The voice evacuation system shall provide 25, 50, or 100 watts signal power and 25, 50, or 100 watts voice power, and shall be UL Listed. The voice evacuation system shall include processor based, and shall contain an integral microphone, 25, 50, or 100W audio amplifier, tone generator, digital message repeater, 240VAC power supply and battery charger.

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 5000 feet away from the voice evacuation panel.
**NFVX - IL8 LED**

**Input Module**

Current draw (on primary module battery back-up): 3mA (Standby), 5.2mA (All Call)

- 8 points
- 8 Red LEDs
- Programmable for multiple functions

The NFVX-IL8 LED Input Module can be used for page zone control, message selection, and control functions. The inputs monitor an external N.O. dry contact. NFVX-4.8’s are typically used for message/zone activation from an outside system such as Sover Weather Warning. They can also be used to activate corresponding outputs on the NFVX-OL8. On activation, the corresponding LED will indicate red.

**NFVX - OL8 LED**

**Output Module**

Current draw (on primary module battery back-up): 3mA (Standby), 26mA (All Call)

- 8 points
- 8 Red LEDs
- N.O. Dry contacts rated at 30mA @ 0-24VDC

The NFVX-OL8 LED Output Module provides solid state N.O. dry contacts. It can also be separately tied to a voltage (0-24VDC), with that voltage used as a drive point or trigger. Outputs 1-4 and 8-16 may use different voltage references if desired. The NFVX-OL8 outputs may be programmed to follow message activation, page zones, or specific functions like P/T, alarm, or control.

**NFVX - SL8 LED**

**Switch Card**

Current draw (on primary module battery back-up): 3mA (Standby), 5.16mA (All Call)

- 8 Momentary switches
- 8 Tri-color LED’s (green/red/amber)
- Programmable for multiple functions

The NFVX-SL8 LED Switch Module provides switch selection for message activation, paging, and control functions. When used in conjunction with the NFVX-7M zone module, the SL8 can be programmed for page zone control. LEDs for switches assigned to page zones will indicate green for page and flashing red for alarm. The LED will indicate amber if the associated speaker circuit is in a fault condition. Switches can be programmed to control corresponding points on the NFVX-OL8. Switch LEDs will indicate steady red on activation.
NFVX - RM
Remote Microphone

The NFVX-RM is a supervised remote microphone for use with the NFVX-25, 50, 100, 150, & 200 voice evacuation panel. The microphone provides crystal-clear live voice messages over the system speakers.

Up to 5 NFVX-RM Panels may be connected to a single NFVX-SC Supervisory Card. This provides supervision of the wires to the NFVX-RM and they may be located up to 5000 feet away.

The NFVX-RM features dead front construction, a microphone with a "Press-to-Talk" button, and discreet LEDs to display "In-Use" and "Fault" status.

NFVX - BA100
Backup Amplifier Switching Card

The NFVX-BA100 switching card continually monitors the primary amplifier for signs of failure. Should the amplifier fail, the NFVX-BA100 automatically activates a backup amplifier. A single amplifier can be used to back up one or more primary amplifiers. The backup amplifier does not require its own microphone and digital message reloop unless a fully redundant voice evacuation system is required.

NFVX - ATM
Audio Transponder Module

The NFVX-ATM provides a method of interfacing audio either into the evacuation system or from the evacuation system into an external paging system like a phone system.

It is capable of being activated by either contact closure or signal presence by use of a VOX, Voice Activation Circuit. Its input may be Balanced Line, 1 Vrms into 600 Ohms, 25 Vrms or 70 Vrms. The input and output signals are isolated so systems will not experience ground loop problems.

External Audio into the NFVP System

External Audio Input with VOX