

NFV-25/50DAZS

(FireVoice-25/50DAZS)

Distributed Audio Panel



Voice Control Systems

General

The Notifier FireVoice-25/50DAZS (NFV-25/50DAZS) is a compact, distributed audio (DAZS) panel that expands the eight speaker circuits found in the **FireVoice-25/50ZS** (NFV-25/50ZS) audio control panel with an additional eight speaker circuits. Up to two NFV-25/50DAZS units wired Class B or up to five NFV-25/50DAZS units wired Class A can be linked to a master NFV-25/50ZS providing a total capacity of 24 speaker circuits. The speaker circuits can be manually activated via the switch module on the master NFV-25/50ZS panel or automatically via the serial communications link.

The audio riser input provides automatic gain control (AGC) which compensates for any audio signal loss due to circuit loading or cable length, to ensure delivery of a full output signal to the speakers. For systems requiring 24-hour backup, the built-in power supply and battery charger are able to charge up to 18 AH batteries.

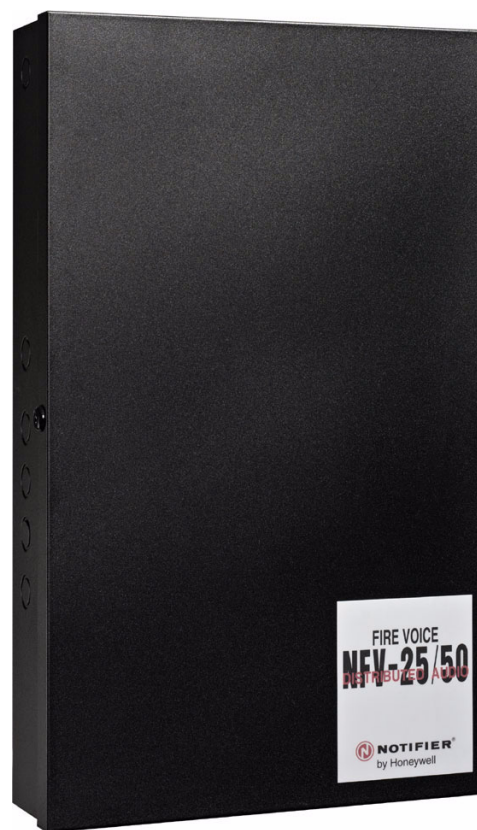
Other options include a 25 Watt, 25 VRMS audio amplifier for system expansion to 50 Watts (providing dual 25 Watt speaker circuits) or as a secondary, backup amplifier. Optional 70.7 VRMS conversion modules are available for applications requiring 70.7 VRMS speakers.

Significant technological enhancements, set the NFV-25/50DAZS Series apart from other voice panels. The NFV-25/50DAZS has full supervision in both active alarm and standby conditions. Independent power feeds to each amplifier ensures that a short circuit in one amplifier will not shut down the other. Full output power (25 watts per amplifier) is generated with the optional 70.7 VRMS transformer module during low battery conditions. Additionally, modern integrated circuits, as opposed to transformer technology, amplifies audio for very low signal distortion.

Suitable applications include, but are not limited to: schools, auditoriums, dormitories, theaters, restaurants, places of worship, motels/hotels, office buildings, and factories.

Features

- 25 watts of 25 VRMS audio power (expandable to 50 watts) per panel.
- Up to four Style Z (Class A) or eight Style Y (Class B) speaker circuits with zone splitter module (ACC-ZSM).
- Automatic gain control (AGC).
- Optional 70.7 VRMS conversion module available for each amplifier.
- Integral primary AC power supply and secondary battery charging circuit.
- Unobstructed module access and removable terminal blocks for ease of service and maintenance.
- Optional digital message generator module (FC-MGM) with factory-prerecorded emergency evacuation message or custom 60-second recorded message capacity.
- Field-selectable message and field recording capability using optional FC-MGM's RCA jack or mini audio input jack for connection to a personal computer.



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- Built-in alert tone generators with steady, slow whoop, high/low or chime tones.
- Alert tone selection may be field-programmed to conform with ANSI S3.41 Audible Emergency Evacuation Signal (Temporal Pattern), per NFPA.
- Integral diagnostic LEDs include: Power, System Trouble, Active, Message Generator Trouble, Tone Generator Trouble, Amplifier Fault and others.
- Independent Form-C trouble relay allows FACP to monitor voice system while in active (alarm) state.
- 35 mA Special Application auxiliary power output for addressable modules and End-of-Line power supervision.
- Optional local playback speaker for use with optional message generator module.
- Can be controlled by the NFV-25/50ZS via the Zone System serial link (EIA-485) to the ACC-ZPM.
- Activation by the FACP using the ACS serial link and/or the five Command (CMD) inputs.
 - ACS serial link activation with compatible FACPS: such as NFW2-100, NFS-320 and NFS2-640.
 - CMD activation compatible with any FACPS.

Standard Modules

ACC-AAM25 - AUDIO AMPLIFIER MODULE

- Installed in the Distributed Audio Panel.
- Provides 25 watts of power at 25 VRMS and one fully supervised and power-limited speaker circuit that can be wired for Style Y (Class B) or Style Z (Class A) operation.
- Two LEDs to indicate amplifier supervision.

ACC-ZPM - AUDIO ZONE PAGE MODULE

- Annunciates and controls speaker circuit selection.

ACC-ZSM - AUDIO ZONE SPLITTER MODULE

- Provides connections for four Style Z (Class A) or eight Style Y (Class B) speaker circuits.

Optional Modules

ACC-AAM25 - AUDIO AMPLIFIER MODULE

- Optional second audio amplifier can expand system power to 50 watts (providing dual 25 watt speaker circuits).
- Can also be used as a backup amplifier.

FC-XRM70 - TRANSFORMER MODULE 70.7 VRMS

- Converts 25 VRMS to 70.7 VRMS at full rated 25 watt output power.

FC-MGM - MESSAGE GENERATOR MODULE

- Provides custom message recording capabilities and system audio backup.
- Custom messages may be recorded from audio sources connected to audio jack on FC-MGM.
- Built-in tone generators provide tones before and after messages as well as backup on message failure.

FC-LPS - LOCAL PLAYBACK SPEAKER

- Allows local review of digital messages (no need to broadcast over system speakers).

NOTE: The FC-LPS is not intended for permanent installation.

Specifications

Primary (AC) Power: Supervised, nonpower-limited circuit. 2.0 Amp maximum @ 120 VAC, 50/60 Hz. Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation.

Secondary Power (Battery) Charging Circuit: Maximum Charging Circuit: Normal Flat Charge - 27.6 VDC @ 800 mA. Maximum Battery Charger Capacity: 18 Amp Hour (cabinet holds maximum of two 18 Amp Hour batteries). Nonpower-limited, supervised. Supports lead acid batteries only.

AC Loss Relay: Relay contact rating: 2.0 amps @ 30 VDC (resistive), 0.6 amps @ 30 VAC (resistive). Non-supervised circuit.

Backup Audio In (on ACC-AAM25): A second optional ACC-AAM25 can be installed as a backup to the primary or to expand speaker power to 50 watts.

Speaker Circuit (on ACC-AAM25): Power-limited, supervised circuitry. Operation: Circuit can be wired Style Y (Class B) or Style Z (Class A). Normal Operating Voltage: 25 VRMS @ 1 amp max. and maximum load impedance of 25 Ohms (70.7 VRMS @ 350 mA max. with maximum load impedance of 200 Ohms operation possible by plugging optional FC-XRM70 conversion module into P1 of audio amplifier). Maximum total capacitance for each AAM-25/50: 250 uF.

Master CMD Bus: Supervised and power-limited circuitry. Normal Operating Voltage: 24 VDC regulated, filtered. Maximum Voltage: 25.4 VDC. Reverse Polarity Current: 125 mA maximum. Maximum Load Resistance: 200 ohms.

Special Application Power (Aux. Power): Non-Supervised and Power-limited circuitry. Up to 35 mA @ 24 VDC special application power is available for powering addressable modules and associated End-of-Line power supervision relays.

Form-C Trouble Relay: Form-C relay contact rating: 2.0 amps @ 30 VDC (resistive), 0.6 amps @ 30 VAC (resistive).

External Audio Inputs (on optional FC-MGM): RCA

Audio Jack Input (female connector): Input Impedance: 30 Kohms maximum. Input Voltage: 700 mVRMS maximum. Input Current: 1 mA maximum @ 700 mV. Requires preamplifier output. Mates to an RCA phono 'plug' - 3mm diameter, 10mm length, 9mm shell diameter. **3.5 mm PC Audio Jack Input (female connector):** Input Impedance: 150 Kohms maximum. Input Voltage: 700 mVRMS maximum. Input Current: 1 mA maximum @ 700 mV. Requires preamplifier output.

Audio Riser: Magnetically isolated input utilizes signals up to 70.7 VRMS with a frequency range of 400 Hz to 4 KHz.

Trouble Contact Input: Non-supervised, non-isolated trouble input that can be used by chargers, power supplies, etc. Contact Closure Operation Current: 1.2 mA maximum.

CABINET SPECIFICATIONS

Door: 0.174" (0.44 cm) high x 0.28" (0.71 cm) wide x 0.05" (0.08 cm) deep.

Backbox: 26.0" (66.04 cm) high x 15.50" (39.37 cm) wide x 4.218" (10.71 cm) deep.

Trim ring: Outer measurement 21.62" (54.92 cm) high x 18.62" (47.30 cm) wide; inner opening 18.63" (47.31 cm) high x 15.63" (39.69 cm) wide; with six holes for #8-32 screws and cutouts for hinges.

Controls and Indicators

LED INDICATORS

- **Main Circuit Board**
 - Power On (green)
 - AC Power (green)
 - Active (green)
 - System Trouble (yellow)
 - Tone Generator Trouble (yellow)
 - Battery Trouble (yellow)
 - Charger Trouble (yellow)
 - Ground Fault (yellow)
- **ACC-AMM25**
 - Amplifier Supervision (green)
 - Circuit Trouble (yellow)
- **ACC-ZPM**
 - ACC Comm (green)

Product Line Information

NFV-25/50DAZS: Single channel, 25 Watt, 25 Vrms, emergency voice evacuation panel. Can be automatically activated via the Zone System serial communication link from the NFV-25/50ZS.

ACC-AAM25: 25 Watt, 25 Vrms Audio Amplifier Module with single Style Z (Class A) or Style Y (Class B) speaker circuit.

ACC-ZPM: Replacement Zone Page Module, addressable, communicates over EIA-485 to interface with NFV-25/50ZS via Zone System serial link.

ACC-ZSM: Replacement Zone Splitter Module with up to eight Style Y (Class B) or up to four Style Z (Class A) speaker circuits.

FC-XRM70: Optional 70.7 Vrms Converter Module (one required per amplifier).

FC-MGM: Optional Message Generator Module.

FC-LPS: Optional Local Playback Speaker, used with FC-MGM.

NFV-TR: Trim Ring, semi-flush mounting.

BAT-1270: Battery, 12 volt, 7.0 AH (two required for stand-alone applications).

BAT-12120: Battery, 12 volt, 12.0 AH, (two required for stand-alone applications; requires BB-17F Battery Box.)

BAT-12180: Battery, 12 volt, 18.0 AH, (two required for stand-alone applications, cabinet holds maximum of two 18 Amp Hour batteries).

Standards and Codes

The NFV-25/50DAZS complies with the following standards: NFPA 72 National Fire Alarm Code; NFPA 101 Life Safety Code; UL 864 Standard for Control Units for Fire Alarm Systems.

Agency Listings and Approvals

These listings and approvals apply to the NFV-25/50DAZS. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S635 Standard UL 864 9th Edition Listed
- **CSFM:** 6911-0028:241
- **MEA:** 341-03-E Vol. 4

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