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FIRE•COMMAND•25/50DA Distributed Audio Panel

Section: Emergency Voice Evacuation

GENERAL

The Fire•Lite FIRE•COMMAND•25/50DA is a state-of-the-art, compact, DA (Distributed Audio) panel. The FIRE•COMMAND•25/50DA is offered in a self-contained, cost-effective design and includes a 25 Watt, 25 V_{RMS} audio amplifier and integral tone generator. Additionally, an optional digital message generator module provides a factory-prerecorded voice announcement and field record and playback capability.

The FIRE•COMMAND•25/50DA is suitable for use as an adjunct to Fire•Lite UL-listed Fire Alarm Control Panels, including the Audio Command Center ACC25/50 and ACC25/50ZS Voice Evacuation Control Panels. The built-in power supply and battery charger provides up to 18 AH for systems requiring 24-hour backup. Other options include a 25 Watt, 25 V_{RMS} audio amplifier for system expansion to 50 Watts (providing dual 25 Watt speaker circuits) or as a secondary, backup amplifier in jurisdictions requiring such. A 70.7 V_{RMS} converter is also available for independently converting amplifiers to meet retrofit needs.

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

STANDARD FEATURES

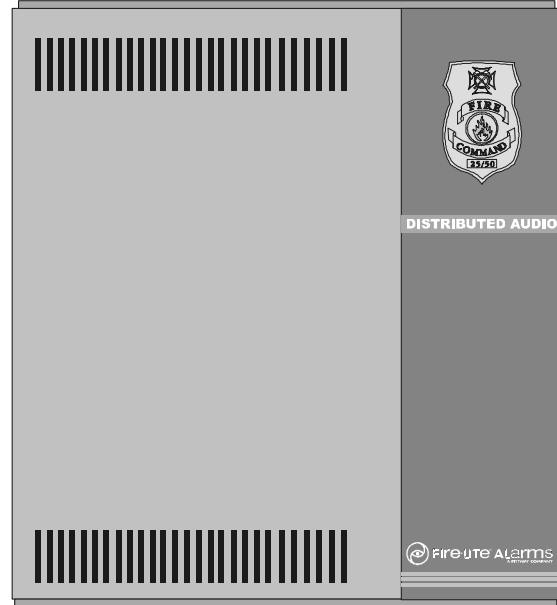
- Integral 25 Watt, 25 V_{RMS} audio amplifier with single Class A (Style Z) or Class B (Style Y) speaker circuit.
- Optional digital message generator module with factory-prerecorded emergency evacuation message.
- Optional message generator module includes 60-second recorded message capacity.
- Custom messages are field recordable with the use of microphone (from FC-25/50), mini audio input jack, or a PC audio output.
- Digital message may be field-selected for 3, 4, 6, 8 or infinite repeat.
- Built-in alert tone generators with steady, slow whoop, high/low or chime tone capability.
- Field-selectable lead-in/trailing tone selection.
- Alert tone selection may be field-programmed to conform with ANSI S3.41 *Audible Emergency Evacuation Signal* (Temporal Pattern), per NFPA.
- Dual-optically-isolated, trigger input circuits are independently field-programmable for activation by polarity reversal (host FACP NAC) or dry contact-closure.
- Integral diagnostic LEDs include: Power, System Trouble, ALARM, Message Generator Trouble, Tone Generator Trouble, Amplifier Fault and others.
- For ease of service and maintenance, plug-in style terminal blocks are utilized for most field-wiring terminations.
- Independent Form-C trouble relay allows FACP to monitor voice system while in active (alarm) state.



MEA
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California
State Fire
Marshal
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- Fully supervised, including amplifier output, optional message generator, speaker wiring, and tone generators, in *Standby* and *Active* states.
- **Independent** amplifier supervision: current limit, audio level, short circuit protection.
- All outputs fully power-limited to meet latest UL requirements.
- Auxiliary power output provides local power for addressable control modules when used to activate FIRE•COMMAND.
- Unique amplifier design features high signal-to-noise ratio.
- Utilizes Surface Mount Technology.
- Compatible with ALL Fire•Lite Fire Alarm Control Panels, as well as other manufacturers'.
- Aesthetically pleasing design has similar look and feel to Fire•Lite's popular FACPs.
- Background music capability (requires AHJ approval).
- When employing background music option, total output power, per amplifier, is reduced to 20 watts.

STANDARD MODULE

FC-PSM

- Power supply/battery charger module.
- Ground fault detection with diagnostic LED (yellow).
- Brownout detection with battery transfer.

Fire•Lite® Alarms is a Honeywell company.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information, contact Fire•Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS



Made in the U.S.A.

- Battery trouble detect with diagnostic LED (yellow).
- Battery saver operation.
- Independent AC loss relay provides AC loss delay per UL, for independent monitoring by DACT (2 Amps at 24 VDC).
- AC power on LED (green).
- 18 AH battery charging capacity — 7AH to 12 AH may be utilized in FIRE•COMMAND•25/50DA enclosure. More than 12 AH, up to 18 AH batteries require Fire•Lite BB-17F battery box.
- Large, teeter-plate terminal blocks easily accept up to 12 AWG for power terminations.

OPTIONAL MODULES

FC-MGM

- Message generator module; provides custom message recording capabilities and system audio backup.
- For message recording; audio inputs include an RCA jack, PC audio output, and microphone input (FC-25/50).
- Includes a factory-prerecorded message that can be changed in the field.
- Diagnostic LEDs include: yellow LED for MGM trouble.
- Includes a Record Bypass switch; when placed in the down position, it prevents accidental erasure of stored voice message.

FC-AAM25

- 25 Watt, 25 V_{RMS} audio amplifier module.
- Field-programmable for system expansion to 50 Watts (providing dual 25 Watt speaker circuits) or as a backup to the primary 25 Watt amplifier, where required.
- Provides single Class A or Class B speaker circuit.
- Utilizes plug-in style terminal blocks for ease of service and maintenance.
- Fully supervised and power-limited.
- Diagnostic LEDs include: yellow trouble LED (cable fault, 70 V_{RMS} fault, amp fault) and green, amp functional LED.

FC-XRM70

- Converts 25 V_{RMS} audio outputs to 70.7 V_{RMS} for retrofit applications.
- Plugs directly on FC-AAM25 module(s), allowing independent conversion to 70.7 V_{RMS}.

FC-LPS

- Provides local digital message playback for user review of field-recorded custom messages.
- Connects to FC-MGM.

STANDARDS AND CODES

The FIRE•COMMAND•25/50DA 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.

SPECIFICATIONS

STAND-ALONE APPLICATIONS

Primary (AC) Power - Stand-alone applications:

- 1.0 Amp maximum @ 120 VAC, 50/60 Hz.

Secondary Power (Battery) Charging Circuit:

- Supports lead acid batteries only.
- Float charge voltage: 27.6V.
- Maximum charge current: 800 mA.
- Maximum battery charging capacity: 18 AH (batteries greater than 12 AH require BB-17F battery box).

CABINET SPECIFICATIONS

Door: 18.65" (473.71 mm) high x 15.65" (397.51 mm) wide x 1.08" (27.43 mm) deep.

Backbox: 18.50" (469.90 mm) high x 15.50" (393.70 mm) wide x 4.25" (107.95 mm) deep.

Trim ring: outer measurement 21.62" (549.15 mm) high x 18.62" (472.95 mm) wide; **inner opening** 18.625" (473.07 mm) high x 15.625" (396.87 mm) wide; with six holes for #8-32 screws and cutouts for hinges.

CONTROLS AND INDICATORS

LED INDICATORS

1. Power On (green).
2. ALARM (red).
3. System Trouble (yellow).
4. Message Generator Trouble (yellow) **on FC-MGM**.
5. Tone Generator Trouble (yellow).
6. Record (green) **on FC-MGM**.
7. Playback (green) **on FC-MGM**.
8. Ground Fault (yellow).
9. Battery Trouble (yellow).

SWITCH CONTROLS

1. Record **on FC-MGM**.
2. Playback **on FC-MGM**.

PRODUCT LINE INFORMATION

FC-25/50DA 25 Watt, 25 V_{RMS}, Distributed Audio (DA) Panel, with integral tone generator and single Class A (Style Z) or Class B (Style Y) speaker circuit.

FC-PSM Standard 120 VAC, 60 Hz Power Supply/Battery Charger Module for stand-alone applications.

FC-AAM25 Optional 25 Watt, 25 V_{RMS} Audio Amplifier Module with single Class A or Class B speaker circuit.

FC-XRM70 Optional 70.7 V_{RMS} Converter Module (one required per amplifier).

FC-MGM Optional Message Generator Module.

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

FC-TR Trim Ring, semi-flush mounting.

FC-RMM **Remote microphone** for field recording.

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; requires BB-17F Battery Box).

BB-17F Battery Box, required to mount PS-12120 or PS-12180 batteries.