

DAA2 Series

Digital Audio Amplifiers



Evacuation Systems

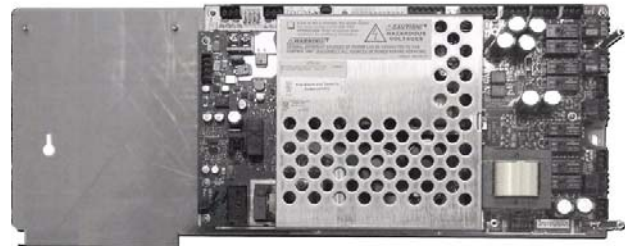
GENERAL

The DAA2 Series Amplifiers are multi-featured amplifiers with digital audio functionality. Each DAA2 is capable of accessing and processing one of up to eight audio channels on the DVC audio loop, amplifying the signal, and distributing it via four speaker outputs. A DAA2 is capable of mounting an optional backup digital amplifier (BDA), which can be used to provide one-to-one amplifier backup, or to support two-channel operation.

The DAA2 has two wire digital audio ports to connect to wire DAL (digital audio loop) segments. Either or both ports may be converted to fiber using fiber option modules. Up to 32 devices, such as DAA2 amplifiers, can be connected to the DAL on one DVC Digital Voice Command unit. DAA2 amplifiers may be mixed with DAX series amplifiers on the same DAL. A DAA2 also supports use of an RM-1 remote microphone. DAA2 amplifiers can store backup alarm and trouble messages, and provide an adjustable background music input.

FEATURES

- 50 W total output power at 25\70 VRMS
- Supports up to 4 monitored speaker outputs
- An optional back-up digital amplifier (BDA) will provide either one-to-one amplifier backup or two-channel operation.
- Supports one-to-many amplifier backup applications using the same model DAA2.
- Remote microphone paging option with RM-1.
- Audio output activation via network control-by-event equations resident within the DVC.
- Two wire digital audio ports that can be converted to fiber using fiber option modules.
- Auxiliary input for 1 VRMS, to be used for background music input, an interface with a telephone paging source, or other compatible audio sources. Audio levels can be adjusted by end user. Optional supervision through programming.
- Isolated alarm bus input, to be used for backup activation of alarm messages when normal digital communication is lost.
- Programmable through VeriFire® Tools.



Digital Audio Amplifier - DAA2

- Up to 106 seconds of backup digital message storage for use in the event of communication loss (from the VeriFire® Tools message library, or created by the installer).
- Battery charger disable provides battery sharing option for up to four DAA2s.
- Disconnect of deeply-discharged battery (low battery disconnect).

INSTALLATION

The DAA2 can be fitted inside a standard U series FACP enclosure or fitted into a self contained 610mm wide enclosure. One or two fibre option modules will plug directly onto a DAA2 for simple installation. A BDA backup amplifier mounts directly onto a DAA2.

PRODUCT LINE INFORMATION

DAA2-5070E: 220-240 VAC Digital Audio Amplifier (50 W, 70 VRMS)

DAA2-5025E: 220-240 VAC Digital Audio Amplifier (50 W, 25 VRMS)

BDA-70: Backup Digital Amplifier, 70.7VRMS, can be configured to act as a one-to-one backup for DAA2 series amplifiers. For DAA2 Series only, supports alternative second channel operation.

BDA-25: Backup Digital Amplifier, 25VRMS, can be configured to act as a one-to-one backup for DAA2 series amplifiers. For DAA2 Series only, supports alternative second channel operation.

DS-FM: Fibre option module for multi-mode fibre. Converts a wire DAP (digital audio port) to a multi-mode fibre port.

DS-SFM: Fibre option module for single-mode fibre. Converts a wire DAP (digital audio port) to a single-mode fibre port.

SPECIFICATIONS

Electrical Specifications

CPS-24 POWER SUPPLY BOARD

AC power (TB1): 220-240 VAC, 50/60 Hz input: DAA2-5070E - 2.68A max.

Recommended wiring: 1.6 mm O.D with 600 VAC insulation.

Secondary Power 5V and 24V AUX Outputs (TB2): 24 V AUX: Power-limited, 24V @ 0.5A, utilizes wire sizes 3.00 mm2 - 2.00 mm2.

Battery Connections: Supplied cable connections to batteries.

Battery Charger: Current-limited sealed lead acid battery charger which charges two 12 volt batteries in series, up to 200 AH.

Battery Charging Capabilities: DAA2 cannot act as battery charger when fitted with a BDA-70 programmed as a second channel.

DAA2 BOARDS

Digital Audio Ports, wire media, A and B (TB2, TB3): Maximum distance per segment is 500m on 0.75 mm2 twisted-pair, unshielded cable.

Digital Audio Ports, fibre media, fibre option modules: Digital audio loop connectors support single- and multi-mode fibre with the use of fibre option modules. Refer to the Digital Voice Command datasheet for fibre specifications.

Alarm Bus: Power-limited, supervised by source. Recommended wiring: 0.75 mm2 twisted-pair. Requires 16VDC minimum @ 20mA across the terminals to activate. Nominal 24VDC.

Remote Microphone Interface: RMI power: +24VDC, power-limited @ 100mA. Supervised. Recommended wiring: 0.75 mm2 twisted-pair Nominal AC signal strength 2.5VRMS, 3VRMS Max. Maximum distance between remote microphone and DAA2: 300 m).

Auxiliary Input: Signal strength from low-level analog audio input (such as background music or telephone paging): 1Vp max. Optional supervision through programming. Recommended wiring: 0.75 mm2, twisted-pair. Auxiliary input source must be within 7.6 m of the DAA2, and within the same room.

Speaker circuits: Power-limited outputs. . Supervision determined by programming. DAA2-5025/70, Each circuit rated up to 50 watts*. Recommended wiring: 0.75mm2 twisted-pair (shielded recommended). Open or Closed circuit: Open requires 20k end-of-line resistors. Closed requires 10k end-of-line resistors on the return.

Backup: High-level audio input: 25 VRMS (DAA2-5025), 70 VRMS (DAA2-5070). Not supervised when inactive. Supervised by backup source when active. Must be in same room or enclosure.

Temperature And Humidity

This system has been certified for operation at 0° to 49°C and at a relative humidity 93% +/- 2% at 32°C



This document is not intended 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.

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