Axis AX

Audio Converter

The Advanced AV-V70 is a Universal Audio Converter that converts any ANSI/UL Listed, maximum 40 Watt, 25 Vrms speaker circuit to a 40 Watt 70 Vrms speaker circuit. It is ideally suited to interface with the Advanced 40 Watt, 25 Vrms output off the AV-AMP-80 amplifier. The AV-AMP-80 amplifier is integral to the Advanced Axis AX “V” Series panels, AV-VBM Audio Panel, AV-VB Audio Booster and the Axis AX Series Command Centers.

The AV-V70 includes a 40 Watt, 70 Vrms Speaker Circuit Interface Module, an Audio Converter Transformer and a LED Power/Trouble Indicator Card, all mounted in an attractive, lockable enclosure. Each AV-V70 enclosure is capable of supporting two (2) 40 Watt, 70 Vrms Speaker Circuit Interface Cards and Audio Converter Transformers with the addition of an AV-V70-KIT. The maximum total available wattage is 80Watts @70 Vrms and two (2) independent Class A or Class B speaker circuits.

The enclosure can be supplied in either red or gray and can be located remotely from the 25 Vrms audio source. Remote mounting offers installation advantages, especially in retrofit applications.

All wiring between the AV-AMP-80 amplifier and the AV-V70 Audio Converter is fully supervised. In addition to getting wired to an existing speaker circuit, each 70 Vrms Speaker Circuit Interface Card requires power from either the “Host” fire alarm control panel or an ANSI/UL Listed 24 VDC nominal power supply

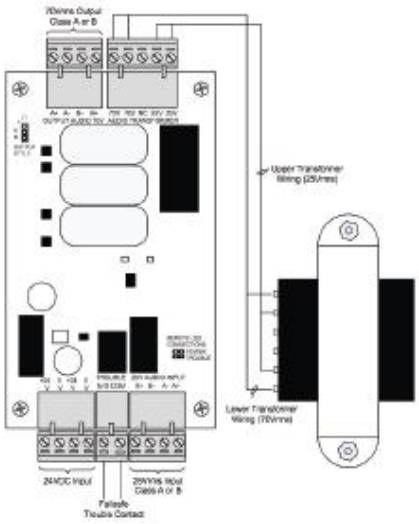
Features

- 25 Vrms to 70 Vrms Converter
- Fully Supervised - Allows Remote Mounting Options
- Single or Dual 40 Watt Speaker Circuits
- Class A or B Wiring
- Can Interface to any ANSI/UL Listed 25 Vrms Speaker Circuit (40 watt maximum)
- Attractive Lockable Enclosure
- Integral External Power & Trouble LEDs
- Numerous Internal Diagnostic LEDs
- Ideally Suited to Interface to AV-AMP-80 Amplifier

Listings and Approvals

- ETL ANSI/UL 864/1711/1481 Listed: 101564744NYM-001, 100027836NYM-001c

Wiring Diagram



Specification

Input Voltage (DC)	24 VDC (Wired from FACP or ANSI/UL listed power supply)
Operating Current	60mA
Trouble Contact	Failsafe, 1A @ 30VDC
Temperature	Indoor/dry Environment, 32-120°F (0-49°C)
Relative Humidity	93% Non Condensing (Max)
Dimension	12”H x 9”W x 3”D
Input Speaker Circuit	25 Vrms @ 40 Watt (max), Class A or B
Output Speaker Circuit	70 Vrms @ 40 Watt (max), Class A or B, End-of-line 100K

Order Codes and Options

AV-V70*	70 Vrms Universal Audio Converter
AV-V70-KIT	70 Vrms Speaker Circuit Interface Card and Audio Converter Transformer

* For gray enclosure, add the suffix “G” to the part number.

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As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis AX

Microphone with Enclosure

The Advanced AV-MIC Microphone with Enclosure provides live voice communications capabilities to Advanced Axis AX “V” Series and Axis AX Command Centers. The AV-MIC provides a supervised microphone mounted to an enclosure that mounts to a single aperture location on Advanced audio products.

When utilized with Advanced switch/LED products, the AV-MIC can provide uncomplicated live voice paging via “All Call Paging,” “Page Evacuation Areas,” “Page Alert Areas,” “Page Inactive Areas” and/or Selective Area Paging buttons.

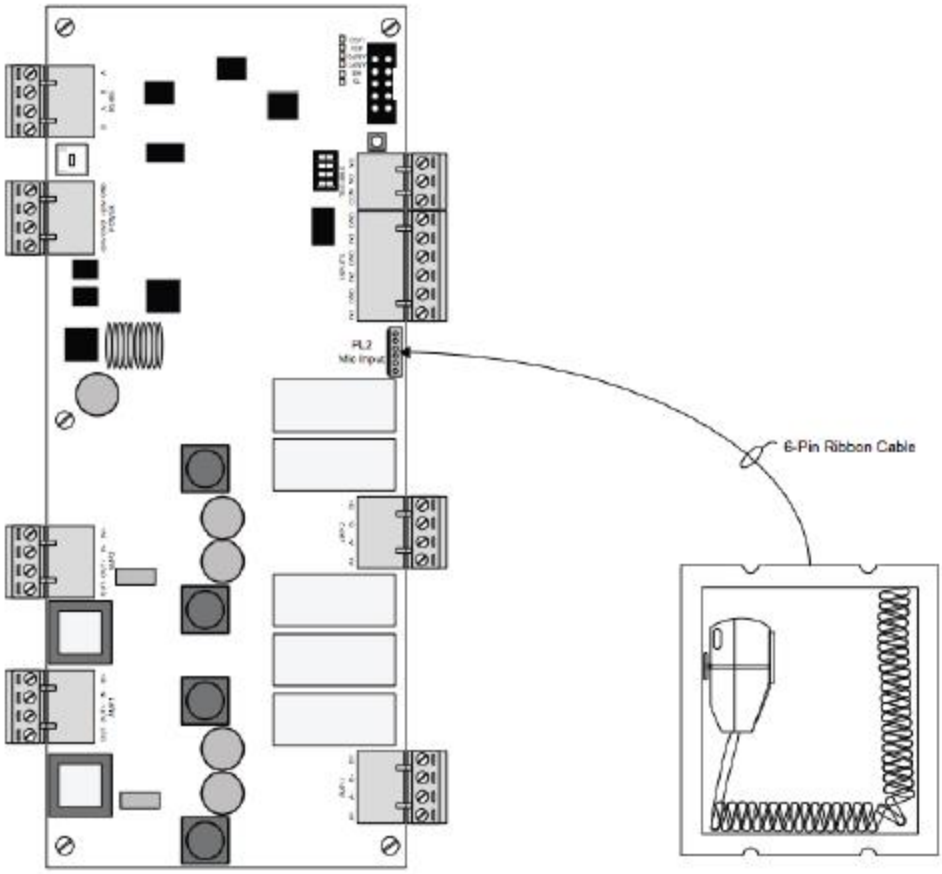
Features

- Completely Supervised by Advanced Amplifier
- Supervised for Open Mic Condition
- Simple to install in Advanced Products
- Easy to Operate
- Easy Supervised Plug-in Cabling to Amplifier
- Pre-assembled Microphone Enclosure with Mounting Clip
- 16 Gauge Steel Construction

Listings and Approvals

- Certified to UL864 10th Edition – File No. S35979
- CSFM Approved: Pending
- NYCFD COA: Pending

Wiring Diagram



Order Codes and Options

AV-MIC*	Microphone and Enclosure Assembly

*For gray enclosure, add the suffix **-G** to the part number.

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Distributed Audio Booster

The AV-VB distributed audio booster is designed to be a self-contained remote audio amplifier capable of providing message/tone generation and rebroadcasting of any 25 Vrms signal. Used in conjunction with an emergency communications system, the AV-VB provides increased digital audio signaling during an emergency situation (alarm, alerts, warnings, mass notification, etc.) to meet total system wattage requirements via true distributed audio methodology.

The AV-VB distributed audio booster message/tone generation, and booster operation can be controlled either via an Axis AX fire alarm control panel's PerfectSync protocol or from the activation of one of three (3) prioritized relay trigger inputs.

When controlled via the Axis AX PerfectSync protocol, the AV-VB audio amplifier can store and broadcast up to sixteen prioritized individual messages/tones. Also, the Axis AX fire alarm control panel can support a total of Sixteen AV-VB distributed audio boosters. These sixteen AV-VB distributed audio boosters, each with their own sixteen audio amplifier messages/tones, can be perfectly synchronized via the Axis AX fire alarm control panel. PerfectSync is also completely compatible with the Advanced 150 node network, providing perfectly synchronized A/V devices across the entire network without the need for any special programming, additional wires or additional modules. In total, network wide, that equates to 800 distributed audio amplifiers, each with their own individual message/tone generators, broadcasting throughout a facility in perfect synchronization.

If controlled by one of the three (3) prioritized relay trigger inputs, two of the relay trigger inputs can be assigned to two separate/individual messages (such as; one input could generate an evacuate message/tone and the other input could generate an alert message/tone) input three is always allocated/assigned as booster mode activation for microphone input rebroadcasting.

The functionality of selecting different prioritized messages, based on specific events, makes the AV-VB distributed audio booster ideal for numerous emergency notification applications. Pre-programmed alarm, evacuation, alerts, warnings and other types of messages, are incredibly easy to implement.

Each AV-VB distributed audio booster incorporates an audio amplifier (AV-AMP-80) containing; two dual 40 Watt amplifiers configured Class A or Class B, a 16 digital message/tone generator, supervision circuitry, a power supply/charger (AX-PSU-6) and an enclosure. A green AC power LED and yellow trouble LED are provided on the front of the enclosure. Additional internal PCB LEDs are provided for detailed service diagnostics as well as amplifier status.

Features

- PerfectSync Axis AX Fire Alarm Panel Compatibility
- Advanced Digital Audio Technology
- Dual 40 Watt @ 25 Vrms Amplifiers
- 16-channel Digital Message/Tone Generator
- Unique Amplifier Booster Option
- High Fidelity Sound Quality
- Axis AX Fire Alarm Panel Powerful CBE Logic Programming

Listings and Approvals

- Certified to UL864 10th Edition – File No. S35979
- CSFM Approved: Pending
- NYCFD COA: Pending

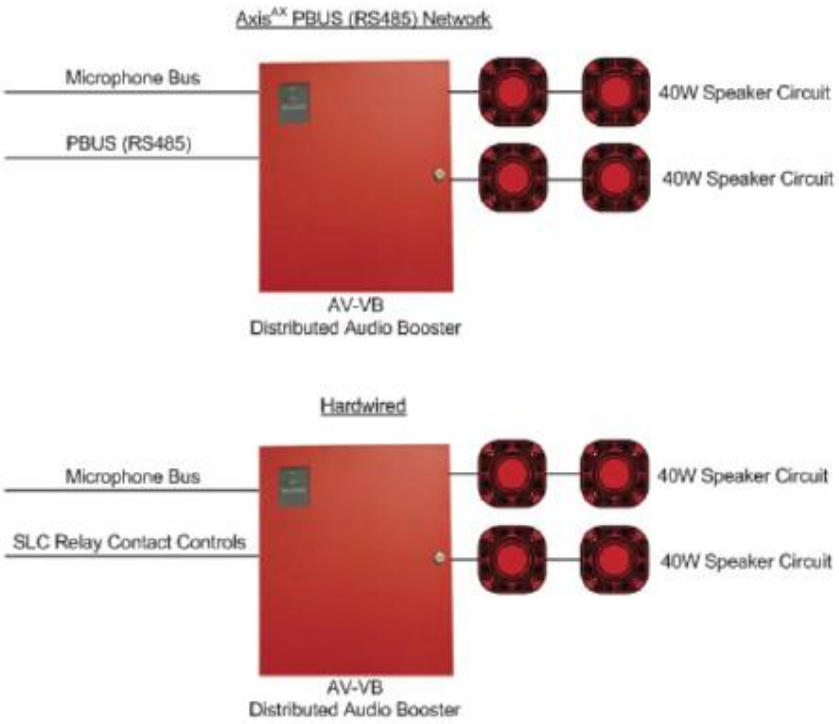
The flash based, digital message/tone generator of the AV-VB provides for sixteen individual field programmable messages that can be tailored to meet any specific installation requirement. Digital messages/tones are programmed in a simple/user-friendly Windows-based tool. The users can select from a library of industry recognized messages/ 900-102 Rev. 1.4 Page 2 of 2 AV-VB Network & Hardwired Wiring tones. Selection options include; leading and trailing tones, male or female voice messages, message category (such as; evacuation, alert, warnings, etc.) and message priorities. Also, wave files may be downloaded and added to the library to allow complete customization of messages/tones.

In support of installations requiring strict survivability, where a specification mandates that if a primary amplifier fails, a backup amplifier is required to take over so that critical life safety messages/tones can be delivered to personnel without interruption, the AV-VB distributed audio booster can be configured for one-to-one 40 Watt amplifier backup. Also, when configured for such operation, the AV-VB audio amplifier has a built in physical test feature to confirm proper backup amplifier operation.

Specification

Operating Voltage Input Output	 120 VAC 24 VDC
Operating Current Quiescent Alarm	 50 mA (Typical) 220 mA Plus 51 mA per 1 Watt of audio (maximum 4.3A @ 80 Watts)
Output Ratings	2x 40 watts @ 25 Vrms, class A or B
LED Indicators	AC power & system trouble
Operating Temperature	32ºF -120ºF (0ºC to 48ºC)
Humidity	10-95% (Non-condensing)
Enclosure Dimension	16” W x 19” H x 5” D
Weight	19lb 5oz

Wiring Diagram



Order Codes and Options

AV-VB*	Distributed Audio Booster

*For gray enclosure, add the suffix **-G** to the part number

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