



#### Features

- Two (2) Class “A” or “B” Speaker Circuits
- External AC Power and Trouble LEDs
- Internal Service Diagnostic and Status Indicators
- USB Port Interface for Message/Tone Programming
- Optional one-to-one Amplifier Backup Capability
- Three Prioritized Relay Trigger Inputs
- Advanced Digital Audio Technology
- Dual 40 Watt @ 25 Vrms Amplifiers
- Dual-Channel Digital Message/Tone Generator
- Unique Amplifier Booster/Cascading Option
- High Fidelity Sound Quality
- Listed to Meet NFPA Requirements for 520 hz Low Frequency Signaling When Used With Compatible Speakers



#### Description

The VAB-802 Audio Booster is designed to be used in conjunction with the PVE-802 Voice Evacuation system. The VAB-802 provides increased digital audio signaling during an emergency situation (alarm, alerts, warnings, mass notification, etc.) to meet total system wattage requirements using true distributed audio technology.

The VAB-802 Audio Booster is an audio amplifier (AMP-80) containing:

- Two (2) dual 40 Watt amplifiers configured Class “A” or Class “B” (Style Z/Y),
- A dual digital message/tone generator and supervision circuitry,
- A power supply/charger and an enclosure.
- A green AC power LED and yellow trouble LED on the front of the enclosure.
- Additional internal PCB LEDs are provided for detailed service diagnostics as well as amplifier status.

The dual channel programmable, flash based, digital message/tone generator of the VAB-802 Audio Booster is field programmable to meet specific installation requirements. Digital messages/tones are programmed in a user-friendly, tool that users can select from various industry standard messages/tones, such as:

- Leading and trailing tones
- Male or female voice messages
- Message category (such as; evacuation, alert, warnings, etc.)
- Message priorities
- Personalized wave files (.wav) can be downloaded and added to allow complete customization of messages/tones.

In support of some local requirements, the VAB-802 may be set to a “backup mode” where as a precaution, if primary amplifier fails, the secondary amplifier automatically engages and overrides the primary amplifier, provided there are no short circuits in the field speaker circuit wiring.

Specifically designed for project flexibility, each VAB-802 Audio Booster can be setup to produce its own messages or it can be operated in a unique “booster” mode. Booster mode allows the amplifier to re-amplify a signal generated from another amplifier/audio signal source.

Both the PVE-802 and VAB-802 panels are listed to meet NFPA requirements to provide low frequency alarm signaling in certain sleeping room applications. To meet the requirement, the panel is uploaded with a specific 520 hz square wave tone file and is paired with one of the compatible speakers listed in the chart below. The VAB-802 Audio Booster can be used in a stand alone configuration to provide pre-recorded tone and voice messaging when the capability to make live voice announcements via a paging microphone isn't required.

VAB-802 Audio Booster message/tone generation or booster operation can be controlled either via the PVE-802, or from the activation of one of three (3) prioritized relay trigger inputs. One of sixteen messages/tones stored in the VAB-802 Audio Booster amplifier can be selected for broadcasting. 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. The functionality of selecting different prioritized messages, based on specific events, makes the VAB-802 Audio Booster ideal for numerous emergency notification applications. Pre-programmed alarm, evacuation, alerts, warnings and other types of messages, including those required for Mass Notification are extremely easy to implement.

In booster mode operation, message/live audio from a PVE-802 or VAB-802 Audio Panel is reamplified and the identical message is rebroadcast out each VAB-802, resulting in a distributed audio system.

VAB-802 Audio System Specifications	
Operating Voltage	
Input	120 VAC
Output	24 VDC & 25 VRMS
Operating Current	
Quiescent	40 mA (typical)
Alarm	200 mA (plus total speaker circuit load)
Output Ratings	2x 40 Watts @ 25 VRMS, Class "A" or "B"
LED Indicators	AC Power & System Trouble
Operating Temperature	32° -120° F (0 to 48° C)
Humidity	10-95% (non-condensing)
Enclosure Dimension	16"W x 19 <sup>1</sup> / <sub>8</sub> "H x 5"D
Weight	19lb 5oz

Compatible Speakers for 520 hz signaling	
Potter	FASPKR & SPKSTR Series Wall & Ceiling Mount
Gentex	SSPK Series Wall & Ceiling Mount
Eaton	LSP Series Wall & Ceiling Mount
System Sensor	SP Series Wall & Ceiling Mount

