

Product Data Sheet



Axis^{AX}



Audio Panel w/Microphone AV-VBM

The Advanced AV-VBM audio panel with microphone is designed to be used in conjunction with any Advanced Axis^{AX} Series or ANSI/UL864 Listed fire alarm control panel to provide automatic (and manual) fire alarm audio signaling and live voice paging during an emergency situation. The AV-VBM is fully compatible with the Advanced AV-VB distributed audio booster, allowing the AV-VBM and AV-VBs to provide a means to meet the total system wattage requirements via true distributed audio methodology.

The AV-VBM audio panel incorporates an audio amplifier (AV-AMP-80) containing; two dual 40 Watt amplifiers configured Class A or Class B, a dual digital (programmable) message/tone generator, a power supply/charger (AX-PSU-6) and an integral microphone inside a compact, red, lockable enclosure.

Key status indicators viewable on the front panel display include a green AC power on LED, a yellow amplifier trouble LED and a yellow power supply trouble LED. Additional diagnostic LEDs are available on each internal module of the AV-VBM audio panel. In addition to the external LEDs, there are 3 toggle switches that provide for manual activation of either Message 1, Message 2 or to initiate an All Call system wide page from the AV-VBM throughout all distributed AV-VB audio boosters.

The built-in dual programmable, flash based, digital message/tone generator of the AV-VBM audio panel comes standard with message 1 programmed for alarm evacuation and message 2 programmed as an all clear message. Both messages are completely field programmable for tailoring to meet specific installation requirements. Digital messages/tones can be programmed with a simple user-friendly Windows based tool. The Windows based programming tool allows users to select from a library of industry recognized messages/tones. Selection options include: leading and trailing tones and male or female voice messages. In addition, 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-VBM audio panel can be configured for one-to-one 40 Watt amplifier backup. In addition, when configured for such operation, the AV-VBM audio amplifier has a built in physical test feature to confirm proper backup amplifier operation.



Unique Features:

- Interfaces to any Listed Fire Alarm Control Panel
- Advanced Digital Audio Technology
- Dual 40 Watt @ 25 Vrms Amplifiers
- 2-Channel Digital Message/Tone Generator
- Unique Amplifier Booster Option
- High Fidelity Sound Quality

Features

- Built-in Live Voice Paging Microphone
- Two Class A or B Audio Notification Appliance Circuits
- AC Power On, Amplifier and PSU and Trouble LEDs
- Internal Service Diagnostic and Status Indicators
- USB Interface for Message/Tone Programming
- Optional one-to-one Amplifier Backup with Test
- Three Prioritized Relay Trigger Inputs
- Message 1 On/Off, Message 2 On/Off and All Call Toggle Switches
- Optional AV-ZS and AV-ZS-CM Zone Splitter and Switch Module

Listings and Approvals:

- ETL ANSI/UL 864/1711/1481 Listed: 100027836NYM-001c
- CSFM Approved: 6912-1713:0117
- NYC FD COA #6105

AV-VBM audio panel message/tone generation is controlled via three N.O. relay contacts from the host fire alarm control panel wired to the three prioritized trigger inputs. When activated, trigger one will cause both amplifiers to play message 1 (factory programmed as alarm evacuation). When activated by trigger two both amplifiers will play message 2 (factory programmed as an all clear message). When trigger three is activated due to an all call page function amplifiers

All distributed amplifiers, AV-VB units, can be configured to either output the actual audio signals from the AV-VBM in real time, synchronized (as is typical in a standard dual or three channel application) or may each be programmed differently in a multi-channel application.

[illegible]

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 ¹ / ₈ "H x 5"D
Weight	19lb 5oz

AV-VBM	Audio Panel
Optional Modules:	
AV-ZS	Audio Zone Splitter Module
AV-ZS-CM	Audio Zone Splitter Switch Module
AV-V70	Universal Audio Converter (converts 25Vrms to 70Vrms)



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Industrial
www.airplusindustrial.ca 604-882-8886