

Audio Power Booster (100 Watt)

(ZT-MNS-100APB)



Description

There are many applications for the ZT-MNS-100BAS voice evacuation system where additional audio power above 100 Watts is required.

For these applications, the ZT-MNS-100APB Audio Power Booster provides an additional 100 Watts of audio output through four (4) Class A or B, power limited, supervised 25 VRMS speaker outputs.

Additional ZT-MNS-100APB units may be daisy-chained for virtually unlimited power output for coverage of large areas.

The audio is provided by the Primary ZT-MNS-100BAS system in parallel with each APB unit. Control of the Secondary ZT-MNS-100APB unit is by a contact closure from the previous unit, which can be the Primary or another ZT-MNS-100APB unit. All wiring and connections are fully supervised.



Features

- 100 Watt, highly efficient Class D digital audio Amplifier
- 4 Speaker Circuits (Class A or B wiring)
- Supervised dry contact closure primary activation input

Technical Specification

Inputs	
Primary Activation Supervised	1 x supervised dry contact closure rated for 24 VDC 10mA
Audio	600 to 3600 Hz freq. response 25 VRMS speaker-level Transformer isolated
Outputs	
Audio	100 Watt, 25VRMS (70VRMS optional)
Speaker Circuits	1 x power-limited to 60 Watts 3 x power-limited to 25 Watts each (with total power not exceeding 100W) 10k Ohm EOLR continuously monitored
Indicators	
LED	Power (Green) Active (Red) System Fault (Yellow)
LED Bar Graph	Audio Level (x4 Yellow Segment)
Power Supply	
Primary Power	120 VAC, 60Hz, 5A nominal
Internal Power Sup	24VDC Regulated
External Power Sup	24VDC regulated, listed for fire alarm use

Internal Battery Backup	
Capacity	Up to 12 A-Hr (not Included)
Standby Mode	24 hours
Alarm Mode	15 minutes
Recharge Time	48 hours
Installation	
Standard	Surface or Semi-flush
Enclosure	
Size	474mm H x 360mm W x 101mm D
Colour	Red (painted steel)
Temperature Range	
	0°C - 49°C 32°F - 120°F
Humidity	
	90% max, non-condensing
Approvals / Listings	
ETL	Listed for UL864 9 th Edition Control units and accessories for fire alarm systems
UL	UL1711 4 th Edition Amplifiers for fire protective systems

- Specifications are subject to change without notice due to product improvements

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Other Accessory Products

70 VRMS Speaker Output

Compensate for audio power loss due to long speaker runs by installing the **ZT-MNS-70V-XFMR** 70 Volt Transformer.

The transformer is contained in a small external cabinet that connects to the **ZT-MNS-100BAS**.

All speaker circuits maintain active supervision and provide full output power.

(For more information, refer to the ZT-MNS-70V-XFMR data sheet.)

Common Alarm and Trouble Relays

The **ZT-MNS-3-REL** 3-Relay Card provides 3 Form-C relay contact outputs to signal external devices in the system.

The three outputs are typically used as Active and Trouble indicators, with the third used for other applications.

(For more information, refer to the ZT-MNS-3-REL data sheet.)

