

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

Description of Other Optional Accessories

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.)*

Other Optional Accessories

ZT-MNS-70V-XMFR	70 Volt Transformer Kit
ZT-MNS-3-REL	Common Alarm and Trouble 3-Relay Card

Specifications

Standard Configuration; no options installed. For specifications on options, please refer to their individual data sheets. Specifications are subject to change without notice due to product improvements.

Interface

Inputs

Primary activation	1; supervised dry contact closure rated for 24 V _{DC} , 10 mA
Audio	600 to 3600 Hz frequency response 25 V _{RMS} speaker-level; transformer isolated input

Outputs

Audio	100 W; 25 V _{RMS} (70 V _{RMS} Optional)
Speaker circuits	1; power-limited to 60 W 3; power-limited to 25 W each with total power not exceeding 100 W 10 KOhm EOLR continuously monitored

Indicators

LED	power (green) active (red) system fault (yellow)
LED bar graph	audio level; yellow 4-segment

Power Supply

Primary Power	120 V _{AC} , 60 Hz; 5 A nominal
Internal Power Supply	24 V _{DC} regulated
External Power Supply	24 V _{DC} 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

surface or semi-flush mount;
between 16" O.C. studs
indoor; 18-⁵/₈"h x 14-³/₁₆"w x 4"d;
painted steel

Enclosure

Temperature Range	32°F to 120°F (0°C to 49°C)
Humidity	90% maximum, non-condensing;
Approvals/Listings	ETL Listed for UL 864 9 th Edition (Control Units and Accessories for Fire Alarm Systems) and UL 1711 4 th Edition (Amplifiers for Fire Protective Systems)

