Description

The ZT-MNS-100BAS system can be expanded beyond the 100Watts by adding ZT-MNS-100APB units.
Each Audio Power Booster (APB) can add up to 100Watts and 4 more speaker circuits.

Audio

The Audio is usually provided by the Primary ZT-MNS-100BAS.
25 or 70VRMS audio can be from any supervised speaker circuit using In-Out wiring in the APB.

Control

Control of the Secondary units (APB) can be by a Contact Closure from the main or previous unit, or a Voltage Signal such as a control output from the main unit or other panel.

Contact Closure

The contact closure control is from the Active Relay on the ZT-MNS-3-REL.

Supervision of the wiring and the APB is via the speaker circuit and is reported back to the Primary panel as a Speaker Circuit Fault.

Specifications

Primary Specifications:
Same as ZT-MNS-100BAS,

APB Specifications:

Input

Audio	25VRMS Speaker Circuit 25K Impedance, 0.025W loading 70VRMS Speaker Circuit 70K Impedance, .07W loading
Control	Contact Closure, Supervised 10K EOLR, 100ohms max wire resistance

Output

Audio Power	100Watts
Audio voltage	25VRMS (70VRMS with MNS-70V-Xfmr option)
Speaker Circuits	4 Class A or B, Power Limited, Supervised

Connections

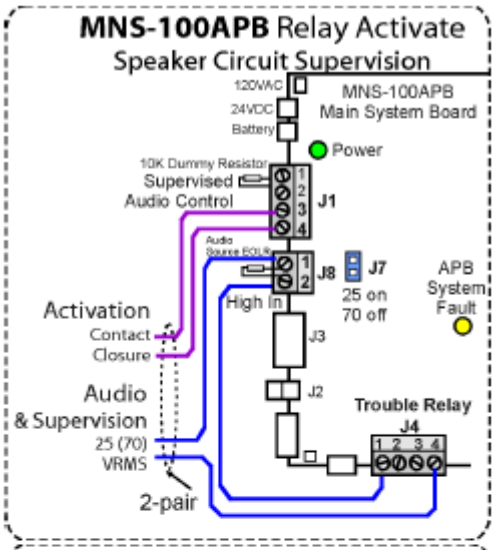
Contact Closure Control
Speaker Circuit Supervision

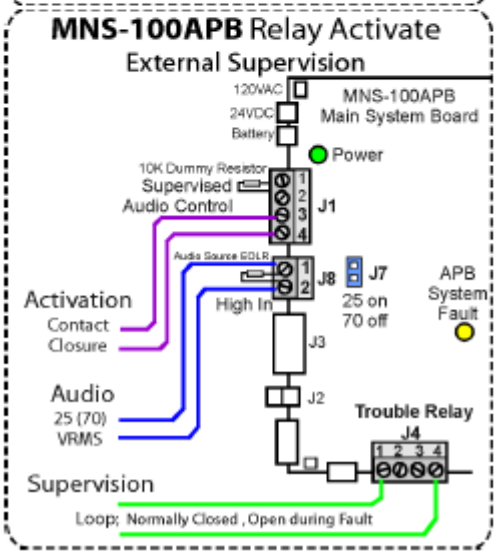
Primary	Secondary
Speaker Output **1**	J4 pin 4
Speaker Output **2**	J8 pin 1
	J4 pin to J8 pin 2

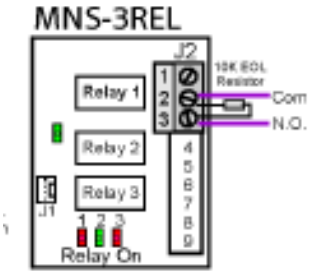
Speaker EOLR across J8 pins 1 to 2

Contact Common	J1 pin 3
Contact N.O.	J1 pin 4

10K EOLR across Contact C to N.O.
Supervision via Audio/Speaker circuit







See ZT-MNS-3REL Installation Manual

More than one APB
If the system requires more that 200Watts, more ZT-MNS-100APBs are added. The additional APBs are daisy chained from the primary cabinet.

Audio
The audio should be a dedicated speaker circuit from the Primary MNS-100. The additional APBs have their audio paralleled onto the previous unit's inputs, with the last APB containing the EOL Resistor.
'Tapping' into an existing speaker circuit is acceptable as long as proper supervision is maintained.
Use of a dedicated audio circuit is recommended for ease of documentation, future circuit tracing and trouble shooting.

VDOT-70VRMS Option
25 or 70Vrms inputs can be used on the input, with the J7 jumper being removed if the input is 70V.
The outputs of the APB can be 25 or 70Vrms, independent of the input voltage.
Adding the ZT-MNS-70V-XFMR to the Booster will convert all 4 outputs to 70VRMS.
A separate 70V-XFMR would be needed for each APB that needs to have the 70V output.
Follow the Installation Instructions (#1000-0831) for the ZT-MNS-70V-XFMR to set the outputs correctly.

Limited Warranty

Velocity Detection over Time Zeta Alarms Ltd declares that this product is free from defects in material and workmanship and it will repair or replace any product or part thereof which proves to be defective in workmanship or material for a period of twelve (12) months from the date of purchase but not to exceed eighteen (18) months from the date of manufacture.
Please contact Velocity Detection over Time Zeta Alarms Ltd directly for a return

merchandise authorization (RMA) number before returning goods under warranty. Shipment must be prepaid and Velocity Detection over Time Zeta Alarms Ltd will repair or replace the product if the failure was caused by a manufacturing defect.