

# VoiceArrest™ Multi-Zone Telephone Paging & Background Music Interface



VA-TMZ



VA-TZ3  
3-Zone  
Expansion Module

## Models VA-TMZ, VA-TZ3

### Description

The VA-TMZ Zone Paging Controller provides multi-zone paging for one-way applications such as the VoiceArrest™ Speech Privacy Controllers and self-amplified speaker systems, with each output capable of providing audio for up to 150 controllers and self-amplified speakers. The VA-TMZ is compatible with all standard analog port types.

Each VA-TMZ comes with a pre-installed VA-TZ3 module for three zones of paging and is expandable up to 12 zones. The VA-TMZ offers up to 24 programmable paging zone groups as well as all-call, auto select, override, night ring, two tone triggers, and code calling zone groups. The VA-TMZ also offers flexible dialing.

### Features

- Expandable from 3 to 12 zones using VZ-TZ3 modules
- Up to 24 programmable paging zone groups
- Telephone interfaces: loop start trunk, ground start trunk, station access (analog ring-up), page port contact closure activation, page port voice activation
- Simple 2-switch interface setup
- Programmable activation of AUX contacts
- C-form contact per zone
- 24V DC, 1A internal power supply
- Provides audio drive for up to 150 VoiceArrest™ controllers and one-way self-amplified speakers per zone
- Adjustable output limiter with threshold control and active indicator
- Two background music busses, selectable per zone
- Two high-impedance transformer isolated background music inputs
- Stereo combining inputs for background music busses
- All-Call paging zone group
- Auto Select paging zone group
- Override paging (using loop start trunk or page port contact closure activation) with zone group
- Night Ringer (90V and contact closure activation) with zone group
- Two Tone Triggers (tone and duration selectable, closure activated) with individual zone groups
- Select tone burst, chime, double chime, or slow whoop
- Code Calling with zone group
- 2 to 5 Digit dialing with flexible dialing plan for zone and zone group numbers
- Non-volatile memory for setup data (no backup battery required)
- Pre-Announce Tone
- Confirmation Tone
- Setup Tone to assist in volume setting
- Pluggable terminal strips
- Microcontroller-based operation
- DTMF programming
- DTMF Block to help suppress DTMF tones over paging system
- Programmable timers control page duration (station and trunk)
- Wall- or Rack-mountable
- Two-Year Warranty (both VA-TMZ and VA-TZ3)

#### VA-TZ3

- One VA-TZ3 module pre-installed with VA-TMZ
- 3 zones per module
- Audio output with level control per zone
- Zone contact closure
- Zone activity LEDs
- Pluggable terminal strips



### Speech Privacy Systems

1100 Jupiter Road - Suite 121 - Plano, TX - 75074  
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## Technical Specifications

Input Impedance:	600 ohms (nominal)	AUX Contact Closure:	2A @ 30V DC, 0.6A @ 125V AC
Input Level:	-10 dBm (nominal)	DC Output:	1A @ 24V DC
VOX Sensitivity:	-30 dBm	Voltage:	120V AC
Background Music		Current:	0.75A
Input Impedance:	20k ohms	Temperature:	0 to 104° F (-18 to 40° C)
Music Input Level:	-10 dBm (nominal)	Humidity:	0 to 85% non-precipitating
Output Level:	-10 dBm nominal	Approvals:	C-UL (UL60950); FCC Part 68 Registered; FCC Part 15 Compliant; Industry Canada CS-03
Output Impedance:	8 ohms	Dimensions:	16 <sup>-3/8</sup> " W x 3 <sup>-1/2</sup> " H x 4 <sup>-7/8</sup> " D 19" W x 3 <sup>-1/2</sup> " H x 4 <sup>-7/8</sup> " D (with mounting flanges)
Drive Capacity:	150 per zone	Product Weight:	8 lb.
Timer Duration:	Default: 10s to 990s		
(both defeatable) VOX:	1s to 9s		
CPC Disconnect:	Pulse greater than 300ms		
VA-TZ3 Contact	2A @ 30V AC, 0.5A @ 125V AC		

## Architect & Engineer Specifications

The VA-TMZ Zone Paging Controller shall provide multi-zone paging for one-way applications such as VoiceArrest™ Speech Privacy controllers and self-amplified speaker systems expandable from 3 to 12 zones using VA-TZ3 modules. It shall also provide up to 24 programmable paging zone groups.

It shall be compatible with all standard analog port types: loop start trunk, ground start trunk, station access (analog ring-up), page port contact closure activation, and page port voice activation.

The VA-TMZ shall include a pre-installed VA-TZ3 zone module for up to three zones of paging with an audio output with level control per zone. Each output shall provide audio for 150 VoiceArrest™ controllers and self-amplified speakers. Each zone shall include zone activity LEDs.

The unit shall provide 1A @ 24V DC (+20 CU) for powering external equipment.

It shall include two high impedance transformer-isolated background music inputs with volume control. Background music source shall be selectable per zone.

It shall include an adjustable output limiter with threshold and active indicator.

The VA-TMZ shall provide override paging (using loop start trunk or page port contact closure activation) with zone group.

The VA-TMZ shall include an all-call paging zone group, an auto select paging zone group, night ringer (90V and contact closure activation) with zone group and two tone triggers (tone and duration selectable, closure activated) with individual zone groups. The unit shall include code calling with zone group.

The VA-TMZ shall include a flexible dialing plan for zone and zone group numbers, programmable from two to five digits.

DTMF programming shall be available through the override input. It shall include DTMF block to help suppress DTMF tones from being heard over the paging system.

The unit shall include programmable timers to control page duration (station and trunk) that can be inhibited.

The unit shall include programmable pre-announce and confirmation tones that can be set to be heard at the speakers being paged or at the calling telephone or both, as well as a setup tone to assist in volume setting, both of which can be inhibited.

The unit shall include a tone level control that sets the level for all tones.

The unit shall include a night ring level control.

The unit shall include a programming reset to return the VA-TMZ system to the original factory default values.

Each zone output shall provide a dual form contact rated at 2A @ 30V DC and 0.6A @ 125V AC that changes state when the zone is accessed.

The VA-TMZ shall allow the installer to program a number of different parameters to control the way in which the AUX relay contacts activate. The VA-TMZ shall allow programming of which input events the AUX relay will respond to, whether it will respond to the event only or to a combination of the event and its place in the priority structure, and if it will respond during the event or after the event ends.

It shall include non-volatile memory for setup data (no backup battery required).

The VA-TMZ shall be wall and rack mountable using reversible brackets included with the unit.

The VA-TMZ shall be C-UL approved (UL60950), FCC Part 68 Registered, FCC Part 15 Compliant, and Industry Canada CS-03.

Dimensions of the unit shall be 16<sup>-3/8</sup>" W x 3<sup>-1/2</sup>" H x 4<sup>-7/8</sup>" D and 19" W x 3<sup>-1/2</sup>" H x 4<sup>-7/8</sup>" D with mounting flanges. Product weight shall be 8 lb.



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