midiVES Public Address & Voice Alarm unit

Voice Alarm
Product Datasheet

Features and Functions

- Standalone or TCP/IP network architecture
- Scalable and quick to install All-in-One type system
- Wall or rack mounted versions available
- Impedance, end of line module or short-circuit isolators for speaker line monitoring
- Ability to connect standalone midiVES and miniVES devices for large distributed systems
- Ease of networking: using copper, single and multimode fibre in any combination
- Built-in fire microphone and touch screen with easy-to-use interface to control background music sources, volumes, timers and all voice evacuation related functions
- All in one – independent wall mount EN 54-4 /16 PA/VA unit
- Stand alone or TCP/IP network architecture
- DSP audio processing on board
- Compatibility with RACK mounted modular MULTIVES»Professional Sound Quality (48 kHz, 16 bit, uncompressed audio)
- Evacuation, paging message and background music features»Impedance, end of line module or short-circuit isolators for speaker line monitoring
- Simple installation and simple to design»User friendly and intuitive programming software
- EN 54-4 charger for up to 65 Ah batteries and 24 / 48 VDC outputs for powering external devices
- VoIP / SIP integrationVoIP/SIP-integrering

COMPACT PLUG-AND-PLAY PA/VA SYSTEM-SYSTEM

AUTRONICA

midiVES is scalable Public Address & Voice Alarm unit suitable for multi-purpose architectures. Devices from midiVES series are voice alarm compact control units containing all components within one compact housing, which meet all the requirements of EN 54-16 and EN 54-4 (certificate of constancy of performance 1438-CPR-0527).
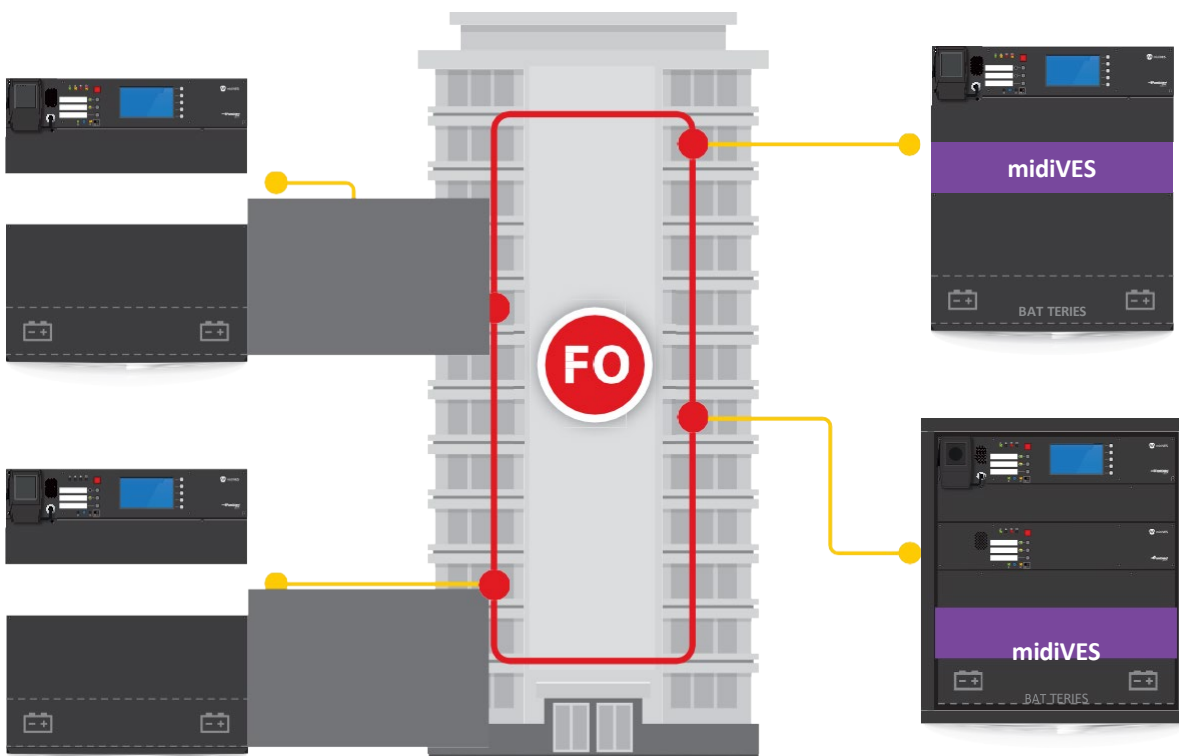
Whole concept of the system is based on the high quality audio network distribution nodes equipped either with two independent 160 W, 320 W or three independent transformerless 500 W class D amplifiers, which distribute 100 V signals to 4, 8 or 16 speaker lines depending on the type. The system also ensures operation of a backup amplifier for the Emergency priority type of signals.

All type of centrals are equipped with integrated backup power supply and EN 54-4 compliant charging unit. midiVES is designed to be a Plug & Play device with all elements expected from Voice Evacuation Systems; including a built-in fire microphone, touchscreen for global control, DSP, programmable contact inputs and buttons, time scheduler, charger with battery mounting space and expandable memory size for messages – all fitted into IP30 chassis or dedicated 15U rack for midiVES 8003LNR with 8003R.

midiVES belongs to the family of independent EVAC systems which can be networked together and extended by desktop zone microphones or - fireman microphones via TCP/IP network to provide live announcements and background music inputs. The system has been designed to be wired using CAT5 cables for paging microphones and - fibre-optic redundant interlink connections between the systems.

All systems support up to 45 high quality audio signals distributed over 254 devices in the network.

midiVES-system example

midiVES

8003LNR   8003R

8003LNR + 8 0 0 3 R

midiVES	8003LN	8003LNR	8003R	8003LNR + 8003R
No of AB zones		8		16
No of speaker lines		16		32
No of control inputs	7 + 2		7	14 + 2
No of relay outputs	3 + 2		3	6 + 2
Relay switching current (max.)		3 A peak*		
Relay switching voltage (max.)		50 V AC / DC peak*		
Relay switching power (max.)		90 W*		
Total audio load of the system		1500 W rms		3000 W rms
No of amplifiers / power		3 / 500 W		6 / 500 W
Redundant amplifier		Yes		Yes
No of messages played at the same time		3		6
Protection		Over-temperature, short circuit, overload, ground leakage		
Battery working time		30 hours + 30 minutes evacuation / 4 × 12 V VRLA batteries		
Ingress protection	IP30		Mounted in IP30 Rack	
Operating condition		-5 to + 45°C / 5% to 95% humidity with no condensation		
Weight	23 kg	16,5 kg	16 kg	N / A
Dimensions (W × H × D)	440 × 525 × 350 mm		440 × 176 × 354 mm	600 × 765 × 600 mm
Finish		Black		
Optional functions				
No of audio inputs		1 – stereo to mono		2 – stereo to mono
Power sources – EN 54-4		1 × 24 V DC (150 mA maximum) and 1 × 48 V DC (350 mA maximum)		2 × 24 VDC (150 mA max.) & 2 × 48 VDC (350 mA max.)
Optional network card		2 × SFP module 1 Gb/s; 1 × POE 1 Gb/s, 100 Mb/s; 1 × LAN 1 Gb/s, 100 Mb/s connection; RS485 port; 1 × WAN 100 Mb/s connection	2 × LAN 1 Gb/s, 100 Mb/s, 1 × WAN 100 Mb/s connection	2 × SFP module 1 Gb/s; 1 × POE 1 Gb/s, 100 Mb/s; 3 × LAN 1 Gb/s, 100 Mb/s connection; RS485 port; 2 × WAN 100 Mb/s connection
GUI 4,3" color touch screen	Yes	Yes	No	Yes
DSP		Input EQ, outputs EQ, feedback eliminator and audio limiter, delay up to 30000 ms – routing, mixing, prioritizing included		
Fire microphone	Yes	Yes	No	Yes

* IMPORTANT: any DC combination of V & A not to exceed switching power max. value. Not allowed capacitive nor inductive load, because of large inrush current / voltage spike, that can significantly exceed the maximum allowed switching current or voltage.