



EN 54-4

EN 54-16

## INTEGRATED MINI PA/VA UNIT

- ✓ **Stand alone or TCP/IP network architecture**
- ✓ **All in one – independent wall mount**  
*EN 54-4/16 PA/VA unit*
- ✓ **Impedance speaker monitoring**
- ✓ **Remote management**
- ✓ **Up to 254 devices can be connected on the network (incl. fireman and zone microphones)**
- ✓ **Ability to connect standalone miniVES units via fiber optic/copper or both cables**



miniVES is scalable Public Address & Voice Alarm unit suitable for multi-purpose architectures. Devices from miniVES 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 or 320 W class D amplifiers, which distribute 100 V signals to 4 or 8 speaker lines depending on the type. The system also ensures operation of a backup amplifier for the Emergency priority type of signals.

miniVES is equipped with integrated backup power supply and EN 54-4 compliant charging unit.

miniVES 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.

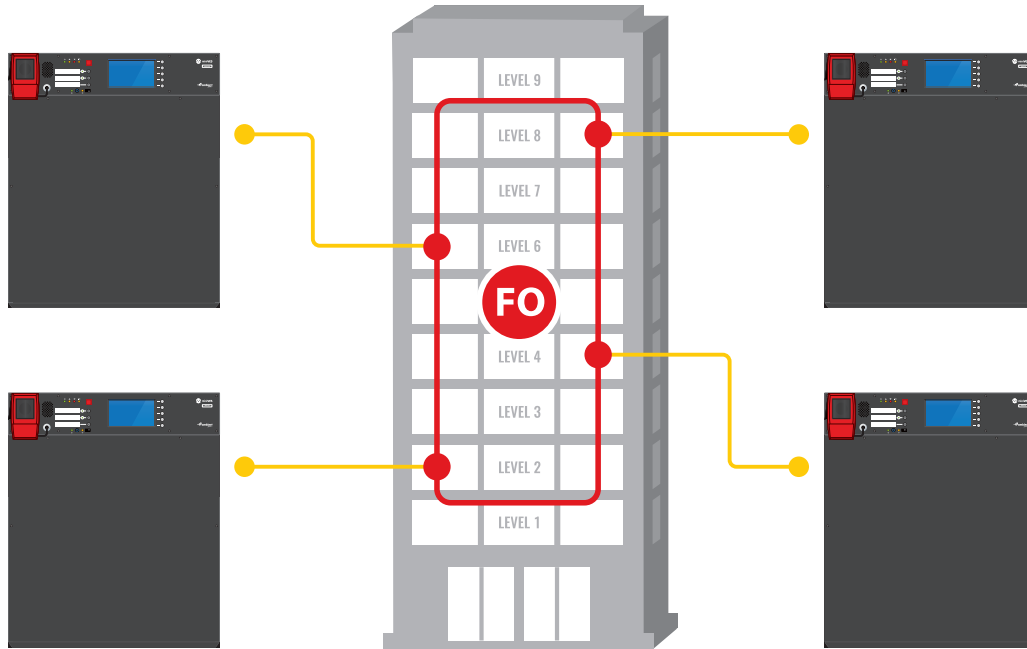
miniVES belongs to the family of independent EVAC systems which can be networked together and extended by desktop zone microphones or fireman microphones via TCP/IP network to provide live announcements and background music inputs. The system has been designed to be wired using CAT5 cables for paging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

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

### miniVES main features

- » **All in one – independent wall mount EN54-4/16 PAVA unit**
- » **Stand alone or TCP/IP network architecture**
- » **DSP audio processing on board**
- » **Compatibility with RACK mounted modular MULTIVES**
- » **Professional Sound Quality**
- » **Evacuation, paging message and background music features**
- » **Impedance speaker monitoring**
- » **Simple installation**
- » **User friendly and intuitive programming software**

## miniVES system example



	miniVES 2001*	miniVES 4001*	miniVES 4002*
No of AB zones	2	4	4
No of speaker lines	4	8	8
No of control inputs	7	7	7
No of relay outputs	3	3	3
NO of amplifiers / Power	2 / 160 W RMS	2 / 320 W RMS	2 / 320 W RMS
Redundant amplifier	Yes – 160 W RMS	Yes – 320 W RMS	Yes – 320 W RMS
No of messages played at the same time	1	1	2
Protection	Over-temperature, short circuit, overload, ground leakage		
Battery working time	30 hours + 30 minutes evacuation		
Ingress protection	IP 30		
Operating condition	-5 to + 45°C / 5% to 95% humidity with no condensation		
Gross Weight	2001 – 26 kg / 4001 – 31 kg / 4002 – 31,5 kg		
Dimensions (WxHxD)	440 mm x 525 mm x 350 mm		
Finish	Black		
<b>Optional functions</b>			
No of audio inputs	1 – Stereo to mono		
No of audio outputs	1 – mono line output		
Network card	2x SFP module 1 Gb/s; 1x POE 1 Gb/s, 100 Mb/s; 1x LAN 1 Gb/s, 100 Mb/s connection; RS485 port; 1x LAN/WAN 100 Mb/s connection		
Basic Network card	2x Lan 1 Gb/s, 100 Mb/s, 1x LAN/WAN 100 Mb/s connection		
GUI	4,5" color touch screen		
DSP	Input EQ, outputs EQ, Feedback eliminator and audio limiter		

\* All devices available with optional touch screen LCD (L) and network card with 2x SFP modules and POE (N)