



EST-VES / EST-VES-8003

Compact plug-and-play
PA/VA system

Datasheet

EN 54-16

EN 54-4

1438-CPR-0659

Compact Plug-and-Play PA/VA System



EN 54-16

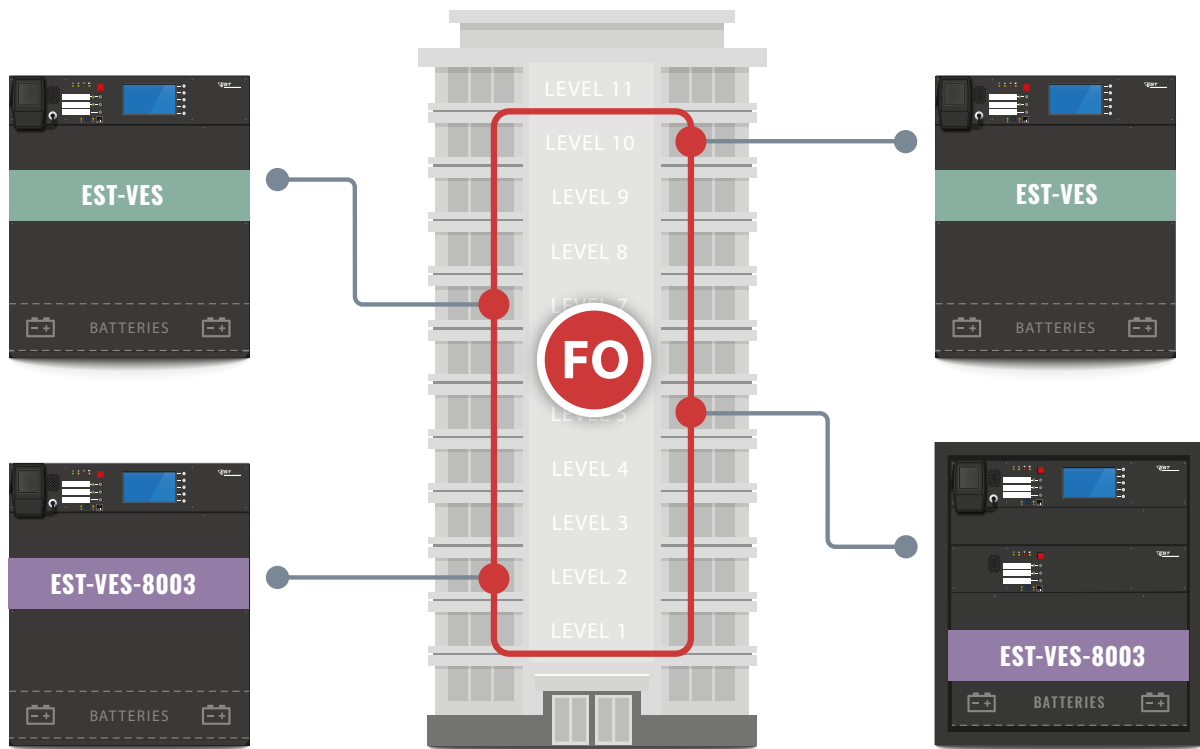
EN 54-4



EST-VES/EST-VES-8003 main features

- » 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 EST-ENT-VES
- » 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 integration

EST-VES / EST-VES-8003 system example



EST-VES and EST-VES-8003 are scalable Public Address & Voice Alarm units suitable for multi-purpose architectures. Devices from EST-VES and EST-VES-8003 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-0659).

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.

EST-VES and EST-VES-8003 are designed to be a Plug & Play device with all elements expected from Voice Evacuation Systems; including a built-in fire microphone, touch-screen 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 EST-VES-8003 8003LNR with 8003R.

EST-VES and EST-VES-8003 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.



EST-VES	2001/N/L/LN*	4001/N/L/LN*	4002/N/L/LN*	4002LNR
No of AB zones	2	4	4	4
No of speaker lines	4	8	8	8
No of control inputs	7	7	7	7
No of relay outputs	3	3	3	3
Relay switching current (max.)	3A peak**			
Relay switching voltage (max.)	50 V AC / DC peak**			
Relay switching power (max.)	90 W**			
Total audio load of the system	320 W rms	640 W rms	640 W rms	640 W rms
No of amplifiers / power	2 / 160 W	2 / 320 W	2 / 320 W	2 / 320 W
Redundant amplifier	Yes	Yes	Yes	Yes
No of messages played at the same time	1	1	2	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	26 kg	31 kg	31,5 kg	19 kg
Dimensions (W×H×D)	440 mm × 525 mm × 350 mm			439 mm × 176 mm × 354 mm
Finish	Black			
Optional functions				
No of audio inputs	1 – Stereo to mono			
No of audio outputs	1 – mono line output			
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 × LAN/WAN 100 Mb/s connection			
Basic network card	2 × LAN 1 Gb/s, 100 Mb/s, 1 × LAN/WAN 100 Mb/s connection			–
GUI	4,3" color touch screen			
DSP	Input EQ, outputs EQ, feedback eliminator and audio limiter, delay up to 30000 ms – routing, mixing, prioritizing included			

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

** 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.



8003LN



8003LNR

8003R



8003-LNRX2

EST-VES-8003	8003LN	8003LNR	8003R	8003-LNRX2
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.)	3A 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

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