# EST-VES-4002-LNR

## Integrierte Mini-PA/VA-Einheit: 4 x AB (8 Leitungen); Verstärker 2 x 320 W (inkl. Ersatzverstärker); 2 x Audio; LCD, Feuerwehrmikrofon; Ladegerät; Rackmontageversion

### Overview

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, 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 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.



### Einzelheiten

- Standalone- oder TCP/IP-Netzwerkarchitektur
- Alles in einem – unabhängige Rack-Montage EN 54-4 / 16 PA/VA-Einheit
- Impedanz-Lautsprecherüberwachung
- Fernverwaltung
- Bis zu 254 Geräte können an das Netzwerk angeschlossen werden (inkl. Feuerwehr- und Zonenmikrofone)
- Möglichkeit zum Anschluss eigenständiger EST VES-Einheiten über Glasfaser/Kupfer oder beide Kabel. Kompatibilität mit im RACK montierten modularen EST ENT VES
- DSP-Audioverarbeitung an Bord
- Professionelle Klangqualität
- Evakuierungs-, Paging-Nachrichten- und Hintergrundmusikfunktionen
- Einfache Installation
- Benutzerfreundliche und intuitive Programmiersoftware
- Rack-Montage-Version

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## Technische Spezifikationen

### Input

| | |
|---|---|
| Quantity and type | 1, Stereo zu Mono |

### Output

| | |
|---|---|
| Quantity and type | 1, Mono |

### Physical

| | |
|---|---|
| Physical dimensions | 440 x 176 x 354 mm (B x H x T) |
| Colour | Schwarz |
| Type of mount | Rack-Montage |
| Gross weight | 19 kg |
| No of messages played at the same time | 2 |
| Protection | Over-temperature, short circuit, overload, ground leakage |
| No of AB zones | 4 |
| No of speaker lines | 8 |
| No of control inputs | 7 |
| No of relay outputs | 3 |
| No of amplifiers / Power | 2 / 320 W RMS |
| Redundant amplifier | Yes – 320 W RMS |

### Environmental

| | |
|---|---|
| Operating temperature | -5°C bis +45°C |
| IP rating | 30 |

### Regulatory

| | |
|---|---|
| Certification | EN54-4 |
| Standards | EN54-16 |

### Umgebungsbedingungen

| | |
|---|---|
| Luftfeuchtigkeit bei Betrieb | 5 bis 95 % nicht kondensierend |

### Optional functions

| | |
|---|---|
| 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; 1xLAN/WAN 100 Mb/s connection |
| GUI | 4,5'' color touch screen |
| DSP | Input EQ, outputs EQ, Feedback eliminator and audio limiter |

### Standby battery

| | |
|---|---|
| Battery working time | 30 hours + 30 minutes evacuation |

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