

ELA-Z



Digital intercom
ELA-SYS6d



The **ELA-Z small-scale public address control unit** is a compact, high-performance 6-zone public address control unit (expandable to up to 12 zones) designed for voice and music applications in commercial and public spaces, as well as areas with additional security requirements.

With an output power of 250W (IEC 268-3) and floating 100V outputs, it enables the reliable operation of loudspeaker systems in distributed areas, such as schools, retail spaces, building complexes or event venues.

The **ELA-Z** features three microphone and five line inputs, which can be flexibly used for announcements, background music or external audio sources. A switchable phantom power supply expands the use of professional microphones. All input signals are processed via a summing mixer with tone control (bass/treble) and then output amplified.

A comprehensive, **multi-level priority system** controls the sequence of all incoming signals, including alarms, digital messages, paging microphones, telephone modules and line sources. **This makes the ELA-Z ideal for security-critical installations or environments where announcements must take precedence over music.**

Each of the six loudspeaker zones can be switched on and off separately and their volume adjusted. Protection circuits against short circuits, overheating and inductive loads ensure safe continuous operation. Thanks to the option of a 24 V DC emergency power supply, the unit remains operational even in the event of a mains power failure.

The modular architecture allows the use of digital desk-mounted handsets, audio modules (e.g. telephone paging card) and external controls. Two ELA-Z units can be linked to create up to 12 zones with a total output of 500W.

Key features:

- Digital power amplifier with 250W output power
- Floor-free 100V outputs
- 6 separate switched and adjustable loudspeaker zones
- Multi-level priority system
- Expandable to 12 zones and 500W total power
- 2 x RCA line inputs
- 3 x balanced microphone/line inputs

- Phantom power switchable on the microphone inputs
- 24V emergency power supply available
- Optional accessories:
 - Telephone paging card
 - Expansion cards

Technical specifications:

MODEL	ELA-Z
Output power	250 W according to IEC 268-3, short-circuit proof, open-circuit proof
Speaker outputs	100 V (ATT level: 100 V/70 V/50 V/25 V/12 V/8 V), 4 Ω
Zones	6 zones, each with volume control, 2-pole relays
Frequency response	40 Hz – 20 kHz (–1 dB)
Signal-to-noise ratio	> 70 dB (MIC), > 80 dB (LINE, A-weighted)
Total harmonic distortion	< 0.1% at 1 kHz
Microphone inputs	MIC 1–3, balanced, –50 dBu to –10 dBu
Line inputs	Line 1–5 (combo/RCA), 0 dBu / 775 mV
Audio output	MIX output (sum output)
Insert	PWR input / MIX output available
Phantom power	Switchable
Protection circuits	Short circuit, overheating, inductive load
Equalisation (master)	Bass / Treble ± 10 dB at 100 Hz / 10 kHz
Priority control	Multi-stage: Alarm → Digital message → Paging MIC → Desk station → Gong → Telephone modules → MIC → Line
Mains supply	230 V AC, 50/60 Hz or 24 V DC (emergency power), remote AC/DC
Dimensions	430 × 133 × 360 mm, 19" / 3U
Weight	approx. 13 kg
Colour	Graphite / Black
Expandability	Digital desk-mounted handsets, audio modules, connection of a second ELA-Z for 12 zones and connection of expansion amplifiers, e.g. SINUS 430 Dps

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