

ONE-150

LDA ONE-150 is a compact, certified public address and voice alarm system. It is designed to provide an efficient, reliable, and straightforward solution for small-sized installations requiring up to 2 audio zones.

It maintains the critical architecture, main design and operational philosophy of the ONE series, ensuring full compliance with EN 54-16 and EN 54-4 standards.

The system includes two class-D amplifier stages, full system supervision, playback of evacuation messages, integration with fire alarm panels, and local configuration without external software. Its compact design and low power consumption help reduce installation and maintenance costs, offering simplicity for smaller installations such as retail stores, sports centres, low-occupancy public buildings, or franchise spaces.



General features:

- 3 audio inputs.
- Emergency microphone input.
- Up to 8 MPS-8Z multizone microphones or VAP-1 panels connected using CAT5 UTP cable.
- 2 class-D amplifiers with two configurations for 100V/70V lines up to 150W power.
- Expandable 6x2 digital audio matrix.
- 2 pre-amplified outputs for connection to external PA amplifiers.
- DSP: 3/7-band input/output parametric equalizer, loudness, LDA sound enhancer, independent volume control per input and master outputs.
- Access control via LCD display.
- 2 outputs for attenuators control.
- 4+2 supervised GPIO ports for integration with the Fire Alarm Control Panel (CIE).
- MODBUS-RTU integration interface.

Voice alarm/emergency features:

- Certified EN 54-16, EN 54-4 and EN 60849.
- Failure detection and indication on all emergency functions.
- Integration with the Fire Alarm Control Panel.
- Dual player for pre-recorded evacuation messages.
- Manual control of emergency states with access control.
- Emergency event log.
- Loudspeaker line supervision.
- Line terminators without return for supervision.
- Backup amplifier included.
- 10 minutes of memory for pre-recorded messages.

ONE-150

Technical specifications:

MODEL	ONE-150
Reference	LDAONE150S01
Power supply	100 - 240V~ 50/60Hz
Power consumption	320W max / 100W at 1/8 output power
Frequency response	80 – 20000Hz +/-1dB
Signal to noise ratio	SNR~90dB, A-weighted
Distortion factor	<1% according to IEC 60268 -15dB. <0,01% pre-out outputs
Gain adjustment per channel	-100dB +10dB, 1dB steps
DSP	Integrated - 48 kHz, 24 bits - 172MHz
BGM audio inputs	Up to 3 x balanced audio 1 Vrms. 10 KΩ, 3 Pin, Euroblock type
Priority audio inputs	2 x balanced audio 1 Vrms. 10 KΩ, 4 Pin, Euroblock type (GPIO)
General control (GPIO)	2 x control I/O, 0-5 V, 100 Ω, in PRIO audio inputs
LDA ACSI bus	1 x balanced audio 1 Vrms. 10 KΩ, RJ-45 female, total 1000m
ACSI-LINK connectivity	2 x balanced audio 1 Vrms. 10 KΩ, RJ-45 female, total 800m
Pre-amp audio outputs	2 x balanced audio 1 Vrms. 100 Ω, 3 Pin, Euroblock type
Attenuators control	2 x override 24V DC, 6 x 30mA, 2 Pin, Euroblock type (4 pin connector)
Emergency control inputs	8 x 0 - 5V DC, monitored inputs, 2 Pin, Euroblock type (4 pin connector)
Emergency control outputs	2 x contact closure output, NO, max 60V DC 130mA, 2 Pin, Euroblock type (4 pin connector)
Virtual matrix	15 x 24 maximum
Amplifier	2 x 150W D class @70 / 100V. Min load 66 Ω
Backup amplifiers	1 backup amplifier with automatic priority according to EN 54-16
Speaker line outputs	2 x 100V audio. Min. impedance: 66 Ω 150W (outputs 1 and 2), 80 Ω 120W (rest), 2 Pin, Euroblock type
Output power	150 W (Pink Noise 1/8). 200 Wrms according to EN 54-16
Protection	Over-temperature, infrasonic, short circuit, slow start-up, overload
Emergency power	181x76x167mm battery housing, up to 22Ah
Battery charger	Integrated, smart charging up to 3 amperes
Display	Backlit LCD 2 rows x 16 characters
Operation conditions	-5 °C to +45 °C / 23 °F to 113 °F 5% to 95% relative humidity (without condensation)
Finish	Materials: Fe y AL Colors: RAL7016 and RAL9005
Weight	7.4 Kg / 16.31 lb
Dimensions (w x h x d)	453mm x 88mm x 455mm / 18.2" x 3.46" x 18"
Accessories	Male Euroblock connectors, installation screws, 4 x rubber foot