

The LDA ONE500 is a compact EN 54-16 certified public address and voice alarm system that ensures a fast, safe and controlled emergency evacuation.

ONE is the most versatile and cost effective PA/VA system, thanks to its cutting-edge features, excellent audio quality and flexibility in minimum space. It has 2 class D amplifiers, 6 zones, 3 audio inputs, 6x6 audio matrix, DSP and LCD display.

The system can be configured without software or PC, thanks to the Plug&Set mode for PA/VA. Audio inputs and automatic mixing allow high versatility for PA use in small installations.

ONE has an EN 54-4 battery charger and can operate with one 12V battery. This feature and its advanced power saving control reduce maintenance costs to the maximum. A Wall&Rack innovative design makes ONE suitable for wall mounting and rack integration



Main Features:

- 6 x 100 V Speakerlines
- 2 class D amplifiers with two configurations for 100V/70V lines up to 500W (200Wrms) .
- EN54-4 certified Emergency Power Supply
- 3 audio inputs; (2x level sensitive / with contact)
- Up to 8 MPS-8Z multizone microphones or VAP-1 panels connected with CAT 5 UTP cable.
- Digital audio matrix
- 4 pre-amp outputs for external PA amplifiers connection.
- DSP: 3/7-band input/output parametric equalizer, loudness, LDA sound enhancer, independent volume control per each input and output master.
- Access control by LCD display
- Control LDA AT6 attenuators (x6).
- 8+2 input ports, supervised for integration with Fire Alarm Control Panel.



Technical specifications:

Model	ONE 500
Power supply	100 - 240V~ 50/60Hz
Power consumption	350W max / 100W at 1/8 output power
Frequency response	80 – 20000Hz +/-1dB
Signal to noise ratio	SNR-95dB, A-weighted
Distorsion factor	<0.1% according to IEC 60268
Gain adjustment per channel	-100dB +10dB, 1dB-steps
DSP	Integrated - 48 kHz, 24 Bit - 344 MIPS
BGM audio inputs	1 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 800m / 2624.7ft
ACSI-Link connectivity	2 x balanced audio 1 Vrms. 10 KΩ, RJ-45 female, total 800m / 2624.7ft
Pre-amp audio outputs	4 x balanced audio 1 Vrms. 100 Ω, 3 Pin, Euroblock type
Attenuators control	6 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 500W D class (250Wrms x 2) @ 70 / 100V. Min load 20 Ω
Backup amplifiers	1 backup amplifier with automatic priority according to EN 54-16
Speaker line outputs	6 x 100V audio. Min. impedance: 20 Ω 500W (outputs 1 and 2), 80 Ω 120W (rest), 2 Pin, Euroblock type
Output power	500 W according to EN60065. 200 Wrms according to EN 54-16
Protection	Over-temperature, infrasonic, short circuit, slow start-up, overload
Emergency power	for battery 181x76x167mm, up to 22Ah (30hr.standby + 30min alarm) *1)
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 Colours: RAL7016 and RAL9005
Weight	7,5 kg / 15,76 lb
Dimensions (W x H x D)	453 mm x 88 mm x 455 mm / 18,2" x 3,46" x 18"
Accessories	Male Euroblock connectors, installation screws, 4 x rubber foot

*1) Estimated lifespan of battery according to the instructions of the manufacturer of voice alarm system: about 2 years.

NOTE: This is a preview datasheet. Technical data and characteristics may be changed or updated without prior notice. Product image is indicative only.

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