NEO-4500LE

Ref: LDANEO4500LES01

LDA NEO Extension 4500L is an extension controller and a 4x500W amplifier for the compact EN 54-16 PA/VA system NEO.

This extension unit can scale the NEO system with 4 more zones as it includes 4 class D power amplifier channels at 4 Ohms.

Audio is transmited from the main unit to this extension unit via daisy-chain connection via FlexNet. Therefore it guarantees maximum quality and integrity.

The extension is fully configurable with the NEO-Configurator software (included with NEO). It is possible to configure remotely the unit as part of th whole NEO system and create events to perform actions in the system triggered by conditions of: input level, date&time, UDP command, a GPIO or button from MPS microphone.

General features:

- 4 class D amplifiers of 500W at 4 Ohms.
- 4 pre-amp outputs for external PA amplifiers connection.
- DSP: 7-band input/output Parametric Equalizer, loudness, LDA sound enhancer, independent volume control per each output channel and audio filters.
- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in daisy-chain mode with Flexnet technology (up to 1024 zones).
- Control for up to 16 attenuators LDA AT6.
- 6 supervised contact relays for integration with Fire Alarm Control Panel.

Rear View

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Tecnichal specifications:

Model	NEO-4500LE
Reference	**LDANEO4500LES01**
Power supply	110-120V / 220-240V~ 50/60Hz.
Power consumption	900W max / 400W at 1/8 output power/ 40W Standby
Frequency response	40 - 20.000Hz +/-3dB
Signal to noise ratio	>93dB, A-weighted
Distortion factor	<0,5% under IEC 62368-3
Gain adjustment per channel	-100dB -0dB, 1dB steps
DSP	Integrated. 48 kHz, 24 bits - 344 MIPS
FlexNet (Cobranet audio + control)	3 x FlexNet Redundant (automatic switching), Ethernet10/100Mbits. Female RJ-45
Pre- amp Audio Outputs	4 x Balanced audio 1Vp, 0,707Vrms. 100 , Ω 3Pin, Euroblock Type
Prio / Ctrl . Input	1 x Balanced audio, 1Vp, 0,707Vrms. 10000 Ω / 0 - 5V DC input 10000 Ω, 4Pin, Euroblock Type
ATT control	4 x Override 24V DC, 8 x 40mA, 2 Pin, Euroblock Type (4 pin connector)
Emercency control Inputs	6 x 0 - 5V DC, Monitored inputs, 2 Pin, Euroblock Type (4 pin connector)
Emergency control Outputs	2 x Relay contact Isolated Output, NO, Max 60V DC 130mA, 2 Pin Euroblock Type (4 pin connector)
Amplifier	4 x 500Wrms @ 4Ω / 4 x 250Wrms @ 8Ω (TOTAL MAX 1000Wrms) Class D. Min Load 4Ω
Speaker Outputs	8 (4 dual managed lines) x 70 /100V. 2 Pin, Euroblock Type (4 pin connector)
Speaker loop Input	8 (4 dual x No Voltage Contact inputs, 3 Pin, Euroblock Type.
Spare Amplifier Inputs	4 x 500W@ 4Ω, 2 Pin, Euroblock Type (4 pin connector)
Protection	Over-temperature, DC, infrasonic, short circuit, slow start-up, overload. Start-up test.
Emergency Power Input	1 x 20 - 28V DC, 32A, Fused (32 A), 2 Pin, Euroblock Type (2 pin connector)
Emergency Power status Inputs	3 x NO - NC, 3 Pin, Euroblock Type
Operating Condition	-5 oC to +45 oC / 23 oF to 113 oF 5% to 95% Relative humidity (No condensation)
Finish	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005 Case: Al, Black RAL 9005
Weight	9,8 Kg / 21,61lb
Dimensions	483mm x 88mm x 455mm / 19” x 3,46” x 18”
Accesory	2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.