

## NEO Extension 4250

LDA NEO Extension 4250 is an extension controller and a 4x250Wrms amplifier for the compact EN 54-16 PAVA system NEO.

This extension unit scales the NEO system with 4 more zones as it includes 4 class D power amplifier channels of 240W ( 4X250Wrms or 2X500Wrms) at 100V or 70V lines.



Audio is transmitted from the main unit to this extension unit via adaisy-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 amplifiers of 250Wrms or 2 amplifiers of 500Wrms for 100V/70V lines.
- 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 techlogy (up to 1024 zones).
- Control for up to 32 attenuators LDA AT6.
- Integrated frontal loudspeaker for monitoring.
- 12 supervised contact relays for integration with Fire Alarm Control Panel.

*Rear View*



# NEO Extension 4250

## Tecnichal specifications:

|                                    |  |
|------------------------------------|--|
| <b>Modelo</b>                      | LDANEO4250ES01   |
| Power supply                       | 110-120V / 220-240V~ 50/60Hz.  |
| Power consumption                  | 1100W max / 200W at 1/8 output power/ 40W Standby  |
| Frecuency response                 | 80 - 20.000Hz +/-3dB   |
| Signal to noise ratio              | >98dB, A-weighted  |
| Distorsion factor                  | <0,05% under 60268-3   |
| 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 $\Omega$ 3Pin, Euroblock Type   |
| Prio / Ctrl . Input                | 1 x Balanced audio, 1Vp, 0,707Vrms. 10000 $\Omega$ / 0 - 5V DC input 10000 $\Omega$ , 4Pin, Euroblock Type   |
| ATT control                        | 4 x Override 24V DC, 8 x 40mA, 2 Pin, Euroblock Type (4 pin connector)   |
| Emergency 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 Class D, 250Wrms or 2x500Wrms @ 70 / 100V. Min load 40 $\Omega$ /20 $\Omega$   |
| 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 70 / 100V 60Wrms, 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<br>5% to 95% Relative humidity (No condensation)   |
| Finish                             | Front: Fe, Grey RAL 7016<br>Back: Fe, Black RAL 9005<br>Case: Al, Black RAL 9005   |
| Weight                             | 9,8 Kg   |
| Dimensions                         | 483mm x 88mm x 455mm / 19" x 3,46" x 18"   |
| Accessory                          | 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. |