



MILO 4500E

ORDER NO. S21450-00

NSC MILO 4500E Extension Controller & Amplifier is an extension unit for the MILO 8120 EN 54-16 certified PA/VA system.

DESCRIPTION :

This extension unit expands the MILO system with 4 more zones, including 4 class D power amplifier channels of 500W at 100V or 70V, powering up to 8 (4 A&B) loudspeaker lines. The powershare feature allows connection of a 1000W max. load per channel, considering a total maximum load of 2000W for all channels. If required, 1 or more channels can be configured as backup amplifier to substitute a faulty amplifier channel within the same unit.

Audio and data are transmitted from the MILO 8120 main unit to the extension unit via a daisy-chain connection by Flexnet and uses Audio over IP technology. Therefore, it guarantees maximum audio quality and integrity in the signal.

The MILO extension unit is fully configurable via the MILO Configurator software. Remote control allows configuration of the complete MILO system and to create events in order to perform actions in the system, triggered by conditions such as input level, date & time, UDP commands, a GPIO or a button from the MCS multizone call station

KEY FEATURES:

- 4 class D amplifiers for 100V/70V loudspeaker lines with a load of 500W per channel, up to 1000W on 2 channels.
- Up to 8 (4 A&B) supervised loudspeaker lines.
- 1 or more of the 4 channels can be used as backup amplifier within the same unit.
- 4 pre-amplified line outputs to link external PA amplifiers.
- Integrated DSP with 7-band input/output Parametric Equalizer, loudness, sound enhancer, independent volume control per each I/O channel and audio filters.
- Triple Ethernet port: for Digital Audio over IP (CobraNet®), remote control & supervision and to extend the system with MILO Extension Matrix Amplifiers in daisy-chain mode with Flexnet technology (up to 1024 zones).
- Control for up to 16 100V attenuators.
- 6 supervised relay contact inputs for integration with a Fire Alarm system.
- 24VDC secondary power supply

TECHNICAL SPECIFICATIONS

MODEL	NEO4500E
Power supply	110-120V / 220-240V~ 50/60Hz.
Power consumption	900W max / 400W at 1/8 output power/ 40W Standby
Frequency response	80 - 20.000Hz +/-3dB
Signal to noise ratio	>98dB, A-weighted
Distortion factor	<0,05% under 60268-3
Gain adjustment per channel	-100dB -0dB, 1dB steps
DSP	Integrated. 48 kHz, 24 bits - 344 MIPS
FlexNet (CobraNet + control)	3 x FlexNet Redundant (automatic switching), Ethernet10/100Mbits. Female RJ-45
Pre-amp Audio Outputs	4 x Balanced audio 1Vp, 0,707Vrms. 100Ω, 3Pin, Euroblock Type
Prio / Ctrl . Input	1 x Balanced audio, 1Vp, 0,707Vrms. 10 kΩ / 0 - 5V DC input 10 kΩ, 4Pin, Euroblock Type
Attenuator 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 500W Class D, (4 x 250Wrms) up to 2 x 1000W (2 x 500Wrms) @ 70 / 100V. Min load 40 Ω/20 Ω
Speaker Outputs	8 (4 A&B, dual managed lines) x 70 /100V. 2 Pin, Euroblock Type (4 pin connector)
Speaker loop Input	8 (4 A&B dual) No Voltage Contact inputs, 3 Pin, Euroblock Type.
Spare Amplifier Inputs	4 x 500W (/ 2x 1000W) @ 70 / 100V, 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"
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.