

digital

flexible

configurable

expandable

NX241

NX241 TDCONTROLLER



The NX241 supports all Nexo loudspeaker systems:

PS8, LS400

PS10, LS500

PS15, PS15Bass, LS1200

Alpha EM, Alpha EF, B1-18

Alpha M3, M8, B1, S2

The NX241 Digital TDCONTROLLER is a proprietary advanced digital processor that allows Nexo loudspeaker systems to achieve exceptional performance and reliability. The NX241 provides crossover, sensed amplifier control and system alignment acoustically matched to each component in Nexo PS and Alpha products. The NX241's complex software algorithms combine this calibrated data with sensed voltage and current measurements to precisely control the temperature and displacement of each driver; ensuring that all Nexo systems deliver optimum sonic performance.

One NX241 has two audio inputs and four outputs as well as four loudspeaker sense inputs. Depending on the product selected, the user can choose passive or active mode, mono, stereo or aux sub, stage monitor or FOH operation. Array EQ, inter-channel gain and delays can also be set, with 10 memory locations for easily recalled user presets. The NX241 can be kept up to date with easily downloadable FLASH EPROM updates on the Nexo web site, regularly adding new features, product support and software upgrades. And the NX241 features an internal expansion slot for future communication and processing extensions, ensuring that the NX241 is ready for new generations of Nexo products.

PRODUCT FEATURES

Precision circuits engineered for Nexo loudspeakers permit increased sound pressure and operational reliability.

Flexible loudspeaker management system for all Nexo loudspeaker systems, providing crossover, driver protection and system alignment.

User configurable inter-channel gain, delay and array EQ.

Highest quality audio performance, 24 bit data with 48 bit accumulator; 100MIPS.

2 audio inputs, 4 audio outputs and 4 sense inputs enable a single NX241 to easily manage multiple Nexo cabinets within each product range.

Comprehensive 16x2 character backlit LCD display, indicators and controls.

NEXO
SONIC INNOVATION THAT WORKS

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PRODUCT SPECIFICATIONS

Output Level	+28 dBu Max into 600 Ohm.
Dynamic Range	Channels 1 & 2 = 99 dBu. Channels 3 & 4 = 101 dBu (111 dBu with DRG on). (Up to 120 dBu dynamic range with proper input/output gain scaling)
THD+N	< 0.02% flat set-up (max. 0.04% for +27.5 dBu Output)
Latency Time	1.4 mS flat set-up
Power Supply	110/220 Volts (internal wiring), 50/60Hz (Operating range 90-125V or 180-264V)
Audio Inputs	Two L&R Audio inputs, 24 bit convertors. Electronically balanced, 36 kOhm. Two XLR-3F connectors.
Sense Inputs	Four Amplifier Sense Inputs, 18 bit convertors. Floating 150 kOhm. 8 Pole Removable Strip Terminal.
Audio Outputs	Four audio outputs, 24 bit convertors. Electronically balanced, 50 Ohm. Three XLR-3M connectors.
Processing	24 bit data with 48 bit accumulator. 100MIPS.
Front panel	Menu 1 and Menu 2 buttons. 16x2 character backlit LCD Display. Select Wheel and Enter Button. Four MUTE/SOLO Buttons.
Indicators	Four Speaker Protect yellow LEDs. Four green Amp Sense LEDs. Four red Peak LEDs. Four red Mute LEDs. Two red LEDs; Input CLIP and DSP CLIP.
Back panel	115/230V AC line select switch. Fuse holder. RS232 serial communications connector. Expansion slot for processor extension card.
Flash EPROM	Upgrades for software improvement and new cabinet set-ups are available from NEXO web site.
Dimensions	1U 19" Rack. 230mm (9") Depth
Weight :	4 kg (8.8 lbs) net

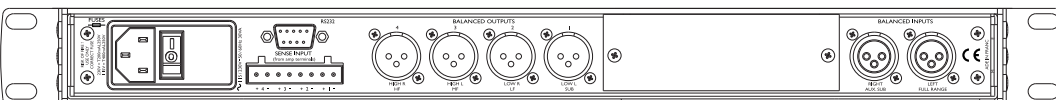
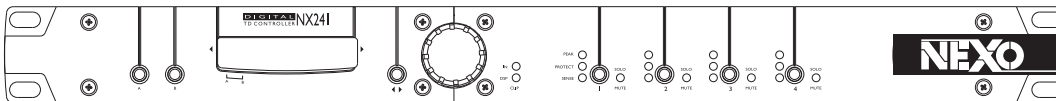
USER CONTROLS

Cabinet Selection	Allows Nexo cabinet choice from the following ranges; PS8, PS10, PS15, Alpha-E, Alpha.
Cabinet Set-up	Within the selected range, allows the cabinet to be set for passive or active mode, aux, mono or stereo subs,wedge or FOH operations depending on cabinet selected. Up to 80 factory pre-sets.
Protection	Peak Limiter, Displacement and Temperature protection on every channel. Physio control of the protection limiter & compressors.
Soft Clip	Automatic tracking of amplifier clip point.
Delay	Up to 150 meters (465 ft.) of delay in 10 cm (.4 in.) steps. On Sub channel, Main channels or Sub + Main linked.
Input Sensitivity Level	From -6 dB to +12 dB in 6 dB steps.
Output Level	Global and inter-channel gain plus or minus 6 dB in 0.5 dB steps.
Amp Gain Reading	Allows amplifier gain checking with program material.
Mute/Solo	Changes front panel buttons from Channel Mute to Solo.
Save/Recall Set-up	Stores up to 10 user set-ups. Recall can be made on the fly without mute or glitches for instant comparison.
DRG	Dynamic Gain Ranging optimises dynamic range in real time.
Array EQ	LF or HF shelving filter to compensate ground or stacking effects, +/-6 dB.
Security Mode	Password protected Read Only Mode.
Earth Lift	Selects Chassis LINK or LIFTED.

SHIPPING & ORDERING

Packaging	NX241s are sold as single items and multiples thereof.
Shipping Weight & Volume	1 x NX241 = 3.85 kg (8.47 lbs) 0.02 cu m (0.71 cu ft)

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice.



LIMITED WARRANTY

Nexo loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of Nexo, the defective item will be repaired/replaced with no charge for materials/labor. The item is to be adequately packaged and dispatched, pre-paid, to a Nexo authorized distributor/service center. Unauthorized repair shall void the warranty. This Nexo warranty does not cover cosmetics or finish and does not apply to any items which in Nexo's opinion have failed due to user abuse, accidents, modifications or any type of misuse.

NX241 TDCONTROLLER

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modelled and simulated, leading to breakthrough cost and performance gains.

Nexo's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long-term reliability for a broad range of applications. Continuing research drives all new product development to deliver on our promise; **Sonic Innovation That Works.**

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