



## Key Features

- Precision circuits specifically engineered for the PS8/LS400 systems permit increased SPL and operational reliability.
- Servo-controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS8 TD to manage multiple PS8 and LS400 products.
- Comprehensive status indicators and controls

The PS8 TDController is an advanced analogue processor that allows the PS8 Loudspeaker and optional LS400 Subwoofer to achieve superior performance from an exceptionally small format. The PS8 TD provides crossover, sensed amplifier control and system equalization, optimised for the PS8 and LS400. Each PS8 TD has two inputs and three outputs, L, R and summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS8 TD provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), strategically reducing levels only at frequencies when and where necessary.



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 modeled 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.

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## PS8 TDCONTROLLER PRODUCT FEATURES

Audio Inputs	Two differential non floating L&R Audio inputs, 50 kOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs (PS8 L&R, LS400). 400 kOhm. 6 Pole Removable Strip Terminal.
Audio Outputs	Two L&R PS8 Audio outputs. Balanced, non floating, 51 Ohm. Two XLR-3M. One Mono (L+R) LS400 Audio output. Balanced, non floating, 51 Ohm. One XLR-3M.
Controls	Gain switch (back panel), 3 positions : -6 / 0 / +6dB. Peak Limiter trimmer (600W-200W/8 Ohms) Sub Overlap / Crossover switch & Sub Gain Control (-/+ 6dB).
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs. Active Mode LED. Power ON LED.
Dimensions	1U 19" Rack. 165mm (6.5") Depth.
Weight	2.9kg (6.6 lbs) net.

## SYSTEM SPECIFICATIONS PS8 TDCONTROLLER

Input Level	Maximum input level 22dBu. CMRR 90dB @ 1kHz typical.
Output Level	+22/+16/+10 dBm typically into 600 Ohm load. Back panel switch On +6/0/-6dB respectively.
Noisefloor	-90 / -96 / -100 dBV for +6 / 0 / -6dB switch position (22 Hz - 22 kHz, UnWeighted).
THD+N	0.05% @ 1kHz Typ. for +10dBm output.
Dynamic Range	111 dB UnWeighted (THD+N at -60dB sine wave @1kHz rel.max. output).
Crosstalk	104dB.
Filtering & EQ	L&R: 12dB/oct Low Pass, 12dB/oct High pass (crossover or overlap), 4 Parameter EQs. All factory tuned
Protections	VCA temp. (SUB,LF & LF), VCEQ disp. (SUB & LF), Peak Limiter (all channels), Power compression regulation
Power Supply	100-250 Volts (continuous operation), 50-60Hz. Power 9W. Peak Inrush current 0.5A. Earth-Lift.
Conformity	Comply with safety objective of 73/23/EEC & 89/336/EEC directives. (EN60065-1998, EN55103-1996) CB scheme, cULus certifications in progress.

## SYSTEM OPERATION

Applicable Products	The P8 TDController is precisely matched to the PS8 & LS400 cabinets and includes sophisticated protection systems. Use of either product without a properly-connected Controller will result in poor sound quality and may damage the components.
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## SHIPPING & ORDERING

Packaging	PS8TDController is packaged as a single product.
Shipping Weight & Volume	4 kg (8.8 lbs) / 0.011 cubic metres.

As part of a policy of continual improvement, NEXO reserves the right to change specifications without notice. E&OE September 2009.

## Architectural and Engineering Specifications

The PS8 TDcontroller shall be configurable from a combination of 2x inputs and 3x outputs with each output providing crossover, parametric EQ, adjustable peak limiter and Temperature & Displacement protection for NEXO PS8 and LS400 products. The unit shall have electronically balanced analogue inputs and outputs. All crossover, protection parameters, and EQ are factory optimized and can't be user-accessed. The controller must model the loudspeakers in real time and this modeling shall include loudspeaker temperature and displacement. Protection shall be selective, acoustically transparent and not allow PS8 loudspeakers to exceed speaker-dependent thresholds. The device shall have 3x inputs providing feedback from amplifier output to allow real time monitoring of amplifier voltage. Crossover function between PS8 loudspeakers and the LS400 Subwoofer shall be controlled by the PS8 TDcontroller. Maximum input shall be 22dBu with CMRR 90dB@1kHz and noise floor below -100dB for the 0dB rear-panel switch. A 3-position, rear-panel gain control switch shall be adjustable between -6/0/+6dB. The Output Section shall display +22/+16/+10dBm into 600Ω load with Rear Panel switch on +6/0/-6dB (respectively). LEDs shall indicate status for; Power ON (green), Amp Sense & Peak LED's (green/Red), Temperature & Displacement (yellow) and LS400 (VLF) displacement protection (also yellow). The chassis shall be constructed of steel with a black paint finish. Input power shall range from 110 to 220VAC continuously, 50-60Hz with a rear panel earth-lift. The 1RU controller shall weigh 2.9kg(6.4lbs), with exterior dimensions of 483mmW x 44mmH x 190mmD (19" x 1.75" x 7.5"). The chassis shall be constructed of steel with a black paint finish. The controller shall be the NEXO PS8 TDcontroller. The unit shall be UL approved and comply with electrical international standard (CB scheme) based upon the European standard EN60065. The unit shall fulfill the electromagnetic requirement of the harmonized standards EN55013, EN55020 and of the requirement of the FCC PART 15 CLASS B regulation. Other integrated loudspeaker-controllers shall be acceptable, provided independent laboratory test results verify these specifications are equaled or exceeded.

## 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/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.