



## Key Features

- Precision circuits engineered for the PS10-R2/LS600 systems permit increased sound pressure and operational reliability.
- Servo-controlled VCEQs provide precise dynamic control without spectral imbalance.
- Two inputs and three outputs enable a single PS10 TDController-R2 to manage multiple PS10-R2 and LS600 products.
- Comprehensive indicators and controls.

The PS10 TDController-R2 is an advanced analogue processor that allows the PS10-R2 Loudspeaker and optional LS600 Subwoofer to achieve exceptional performance from such compact packages. The PS10 TDController-R2 provides crossover, sensed amplifier control and system equalisation optimised for the PS10-R2 and LS600. One PS10 TDController-R2 has two inputs and three outputs, L, R and summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS10 TDController-R2 provides precision dynamic, voice coil temperature and diaphragm displacement protection through the use of selective Voltage Controlled Equalisers (VCEQs), reducing levels only at frequencies when and where necessary.

PS10



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.

NEXO S.A.  
Parc d'Activité  
du Pré de la Dame Jeanne  
B.P. 5  
60128 PLAILLY  
Tel: +33 (0) 3 44 99 00 70  
Fax: +33 (0) 3 44 99 00 30  
e-mail: info@nexo.fr

NEXO LatAM  
C.C. No 33. Suc 49  
Caballito (1449)  
Buenos Aires  
Argentina  
Tel: +54 114 432 1911  
Fax: +54 114 431 1007  
e-mail: info@nexo.fr

NEXO Asia  
GPO Box 806  
Hong Kong  
SAR China  
Tel: +852 9096 3472  
Fax: +852 2104 3214  
e-mail: info@nexo.fr

**NEXO**  
www.nexo.fr

### PS10 TDCONTROLLER-R2 PRODUCT FEATURES

Audio Inputs	Two L&R Audio inputs. Electronically balanced, 50kOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs (PS10-R2 L&R, LS600. 150 kOhm. 6 Pole Removable Strip Terminal. Passive Mode, PS15-R2 L&R, RS15. Active Mode, PS15-2 LF and HF, RS15.
Audio Outputs	Two L&R PS10-R2 audio outputs. Electronically balanced, 50 Ohm. Two XLR-3M. One mono (L+R) LS600 audio output. Electronically balanced, 50 Ohm. One XLR-3M.
Controls	Std/Max Protection Trimmer. Gain switch (back panel), 3 positions for Amps with Gain : -6 / 0 / +6 dB. Sub On switch & Sub Gain Control.
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs.
Dimensions	1U 19" Rack. 190mm (7.5") Depth.
Weight	2.9kg (6.6 lbs) net.

### SYSTEM SPECIFICATIONS PS10 TDCONTROLLER-R2

Input Level	+28dBm max into 600 Ohms.
Output Level	+20dBm Max. +19dBm Max on 1kOhm.
Noise	-88 dBm (22 Hz - 22 kHz, UnWeighted).
THD+N	< 0.03% Typ. 0.05 Max for +18dBm Output.
Power Supply	110/220 Volts (internal wiring), 50/60Hz. Earth-Lift (back panel).

### SYSTEM OPERATION

Applicable Products	The PS10 TDController-R2 is precisely matched to the PS10-R2 & RS15 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.
---------------------	--

### SHIPPING & ORDERING

Packaging	PS10 TDController-R2 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 PS10 TDcontroller R2 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 PS10-R2 and LS600 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 PS10-R2 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 PS10-R2 loudspeakers and the LS600 Subwoofer shall be controlled by the PS10 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 LS600 (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 PS10 TDcontroller R2. The unit shall be UL approved and comply with electrical international standard (CB scheme) based upon the European standard E160065. 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.