







Key Features

- Precision circuits engineered for the PS15-R2/RS15 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 PS15 TDController-R2 to manage multiple PS15-R2 and RS15 products.
- User configurable for passive or active (biamp) operation of the PS15-R2 Loudspeaker.
- Comprehensive indicators and controls.

The PS15 TDController-R2is an advanced analogue processor that allows the PS15-R2 Loudspeaker and optional RS15 Subwoofer to achieve exceptional performance from such compact packages. The PS15 TDController-R2 provides crossover, sensed amplifier control and system equalisation optimised for the PS15-R2 and RS15.

The PS15 TDController-R2 also features user-selectable passive or active (bi-amp) operation of the PS15-R2 Loudspeaker. One PS15 TDController-R2 has two inputs and three outputs, including summed sub out, minimising installation cost and complexity.

Like all NEXO processors, the PS15 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.



PS15_{TDController-R2}







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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PS15 TDCONTROI	LLER-R2 PRODUCT FEATURES
Audio Inputs	Two L&R Audio inputs. Electronically balanced, 50KOhm. Two XLR-3F connectors.
Sense Inputs	Three Amplifier Sense Inputs, 180 kOhm. 6 Pole Removable Strip Terminal.
	Passive Mode, PS15-R2 L&R, RS15. Active Mode, PS15-2 LF and HF, RS15.
Audio Outputs	Three audio outputs. Electronically balanced, 50 Ohm. Three XLR-3M connectors.
	Passive Mode, two PS15-R2 L&R, one Mono (L+R) RS15. Active Mode, one PS15-R2 LF, one
	PS15-R2 HF, one Mono (L+R) RS15.
Controls	Front panel: Overlap/Crossover switch, Two Bass EQ trimmers (+/- 3 dB), Three Peak
	Limiter Adjust trimmers. Three Gain trimmers (+/- 6dB). Back panel: Gain switch (back
	panel), 3 positions for Amps with Gain: -6 / 0 / +6 dB. Internal: Active/Passive Mode
	switch. Three Protection trimmers.
Indicators	Speaker Protect LEDs. Amp Sense & Peak LEDs. Active Mode LED. Power ON LED.
Dimensions	1U 19" Rack. 190mm (7.5") Depth.
Weight	2.9kg (6.6 lbs) net.

SYSTEM SPECIFICATIONS PS15 TDCONTROLLER-R2		
Input Level	+28dBm max into 600 Ohms.	
Output Level	+22dBm.	
Noise	-88 dBm (22 Hz - 22 kHz, UnWeighted).	
THD+N	< 0.03% Typ. 0.05 Max for +18dBm Output.	
Power Supply	110/220 Volts (External Rear Panel Switch), 50/60Hz. Earth-Lift (back panel).	

SYSTEM OPERATION		
Applicable Products	The PS15 TDController-R2 is precisely matched to the PS15-R2 & RS15 cabinets and includes sophisticated protection systems. Use of either product without a	
	propery-connected Controller will result in poor sound quality and may damage the components.	
Sub-bass	Active two-way operation of the PS15 Loudspeaker in passive mode or three-way	
	operation in active mode with the RS15 Subwoofer is included in the PS15TDController-R2	

SHIPPING & ORDERING		
Packaging	PS15 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 1RU PS15 TDController-R2 shall be configurable from a combination of two inputs and three outputs with each output providing crossover, parametric EQ, and mid-filter limiters for NEXO PS15 R2 products. The unit shall have electronically balanced analogue inputs and outputs. Each input must provide LF or HF shelving filter to compensate ground or stacking effects, +/-6dB LEVEL TRIM controls for each output must be independent and directly accessible through front-panel switches. 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 PS15 R2 loudspeakers to exceed speaker-dependent thresholds. The controller shall have three inputs providing feedback from amplifier output to allow real time protections on real voltage. Active, two-way operation of PS15 R2 loudspeakers, with the LS400 Subwoofer, shall be controlled by the PS15 TDController R2. The Controller shall change between passive and active switching through jumper connections made inside the unit. Maximum input shall be 22dBu with CMRR 90dB@1kHz and THD+N 0.059&@1kHz at +18dBm output. A 3-position, rear panel gain control switch shall be adjustable between -6/0/-6dB. The Output Section shall display+28/+22/+16dBm into 600W load with Rarr 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 LS500 (VLF) displacement protection (also yellow). The chassis shall be constructed of steel with a black paint finish. Input power shall be 110-220VAC, 50-60Hz with a rear panel earth-lift. The 1RU device shall weigh 3.3kg (7.3lbs), with exterior dimensions of 483mm (19in) W, 44mm (1.75in) H and 210mm (8.5in) D. The controller shall be the NEXO PS15 TDController-R2.

I IMITED 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.