



## DIGITAL TD CONTROLLER ηNXAMP4

### Compact, small systems dedicated 4 Channel Powered TD Controller

This addition in the range of NEXO Powered TD Controllers offers the best sound quality and installation oriented features for NEXO small speakers systems.

#### nanoNXAMP4 main features

- Speaker controller and four channels of power amplifier in a 1U, 1/2 rack.
- Four Balanced (+ unbalanced) Analog inputs (line or microphone level), SPDIF digital in/out, four Dante™ or AES67 input (nanoNXAMP4-D only).
- Four channel Class-D amplifiers with ultra-low distortion for uncompromising sound quality, 4 x 250 Watts/4 ohms.
- Universal Power Supply (100~240 Volts) using PFC technology for best efficiency and smooth current drawn.
- Remote control through integrated WiFi Access Point or through the ethernet port.

The nanoNXAMP4 combines advanced signal processing for small NEXO speakers system, a state-of-the-art four channel Class-D amplifiers, a robust universal power supply with PFC and a comprehensive user interface.

#### Energy Saver Power Supply

With its continuous usable mains voltage range from 100 to 240 Volts, the nanoNXAMP4 can be used worldwide and run on all kinds of power generator. Its power supply uses a PFC (Power Factor Correction) technology, ensuring that the efficiency of the power conversion is always at its best, while the Power Management offers compatibility with European ErP standby regulations.

#### Flexible audio input system

The nanoNXAMP4 has four balanced+unbalanced analog inputs with adjustable sensitivity from Microphone to +14 dBu. SPDIF and Dante™/AES67 input (nanoNXAMP4-D only) can be used as digital inputs as well. Each amplifier channel accepts any combination of these inputs with mix, priority or ducking options, reducing small installations costs by removing the need of external mixer or processor.

#### Extended Remote control capacities

The integrated web server allows direct remote control from any standard computer or smartphone without additional software, connected to the integrated WiFi Access Point or on the back ethernet port.

#### GPIO and Wall Control input

The nanoNXAMP4 features a 8 pins GPIO connector for easy remote control of the unit using

only low cost hardware. Standby, Mute, Volume Control, Trigger In and Out are available.

#### Wall Controller

On top of the GPIO remote control, the nanoNXAMP4 supports up to 8 Wall Controller per unit.

These Wall Controller connects to the same ethernet network than the nanoNXAMP4 and are powered by POE. They allow to select any input source and adjust the volume for each amplifier processing channel.

They are available in white or black with EU or US form factor.



Wall Controller ( EU form factor)

#### Drivers for 3rd party control systems

The nanoNXAMP4 offers API drivers for AMX, Control 4, Crestron, Crestron Home, ELAN, Q-SYS, RTI and Symetrix.

Please check NEXO website to download the appropriate API driver for your remote control system.

#### Rack and Wall mount kit

As an option, NEXO offers either a Rack Mount kit to install one or two nanoNXAMP4 side by side fitting a 1U, 19" rack space, and a Wall Mount kit to install on nanoNXAMP4 flush on a wall on a ceiling.

# ηNXAMP4

## ηNXAMP4-D

## Powered TD Controller Data Sheet

# NEXO

### DIGITAL ηNXAMP4 TD CONTROLLER

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.

#### POWER SPECIFICATIONS FOR nanoNXAMP4

|                                                                       |                                           |
|-----------------------------------------------------------------------|-------------------------------------------|
| Number of channels                                                    | 4x amplifiers channels, 2 by 2 bridgeable |
| Max. output power (4 channels mode /8 Ohms load per channel)          | 4x 200 Watts                              |
| Max. output power (4 channels mode /4 Ohms load per channel)          | 4x 250 Watts                              |
| Max. output power (4 channels mode /2 Ohms load per channel)          | 4x 250 Watts                              |
| Max. output power (2 channels mode /8 Ohms load per bridged channels) | 2x 200 Watts                              |
| Max. output power (2 channels mode /4 Ohms load per bridged channels) | 2x 350 Watts                              |
| Power consumption (Idle)                                              | 20 Watts                                  |
| Power consumption (Standby)                                           | <2 Watts                                  |
| Power consumption (Standby without network)                           | <0.5 Watts                                |

#### INPUT TO POWER OUT SPECIFICATIONS

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Frequency response                  | +0/-0.25 dB from 20 Hz to 20 kHz            |
| Input impedance / Input Sensitivity | 20 K $\Omega$ / +13 dBu                     |
| Dynamic range / THD + N             | >106 dB A-weighted / <0.05% on a flat setup |
| Latency                             | 1 ms on a flat setup                        |
| Audio AD and DA Converters          | 24 bits @ 48 kHz                            |
| Processing                          | 64 bits processing DSPs                     |

#### BACK PANEL FEATURES

|                            |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| Analog audio inputs        | 4x balanced analogue inputs on Euroblock 3.5 mm pitch or unbalanced on RCA           |
| Power outputs              | 4x Euroblock 5 mm pitch outputs                                                      |
| Digital audio input/output | 1x SPDIF 2ch input/output on RCA + 1x Dante™ 4ch input (nanoNXAMP4-D only)           |
| GPIO port                  | 1x Euroblock 3.5 mm pitch with 4x Global purpose Inputs and 1x Global purpose Output |
| Network inputs             | 1x 100 Mb Ethernet port (Remote control)                                             |
| Mains sockets              | 1x IEC C14 socket                                                                    |

#### FRONT PANEL AND REMOTE CONTROL

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| Front panel LEDs | 5x LEDs (WiFi / Network / Output / Input / Status)                               |
| Remote control   | Through 100 Mb Ethernet port or through integrated WiFi (Access Point or Client) |

#### MAINS REQUIREMENTS

|                                   |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Mains voltage                     | Universal Power Supply with Active PFC 100 - 240 Volts (50/60 Hz) |
| Power consumption 1/8 max. 2 Ohms | 250 Watts                                                         |

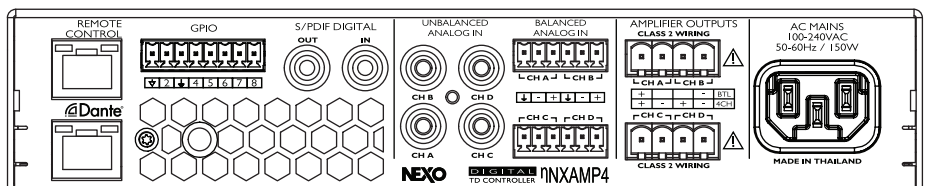
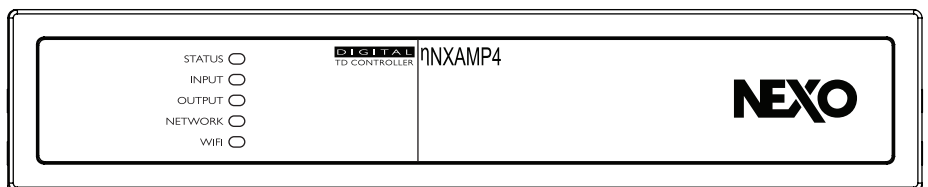
#### DIMENSIONS AND CERTIFICATIONS

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| Dimensions and weight           | 1U, 1/2 19" Rack, 44 x 220 x 319 mm (1.7 x 8.7 x 12.6"), 2.0 kg (4.4 lbs) |
| Electrical safety certification | IEC62368-1 2nd edition and UL62368-1                                      |
| EMC certification               | FCC Part 15 Class B, CAN/CSA-CISPR 22-10, EN55032/CISPR32, EN61000        |
| Green status                    | Compliant with ROHS & Reach directive                                     |

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

nexo-sa.com



#### 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, prepaid, to a NEXO authorized distributor/service center. Unauthorized 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.