

# User Manual Specifications

# MS-4R

**ZERO-OHM** System is a passive device that interconnects between any amplifier and multiple loudspeakers without the concerns of amplifier speaker loads, impedance and extremely long cable runs. This Patented Design eliminates the need for 70V-100V transformer products. Multiple loudspeakers can be wired in a parallel connection to impedances below one (1) Ohm.



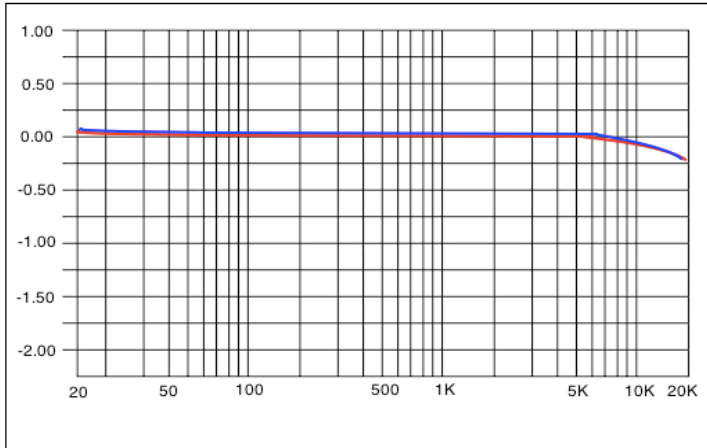
## **FEATURES:**

- ✓ Zero (0) Ohm functionality
- ✓ No Transformers required
- ✓ Multiple loudspeakers can be connected in parallel
- ✓ Any Speaker impedance can be used: 2/4/8/16 Ohm
- ✓ Uniform power distribution over long distance cable runs
- ✓ Full range frequency response
- ✓ Identical Output Phase relationship with all Power Amplifiers

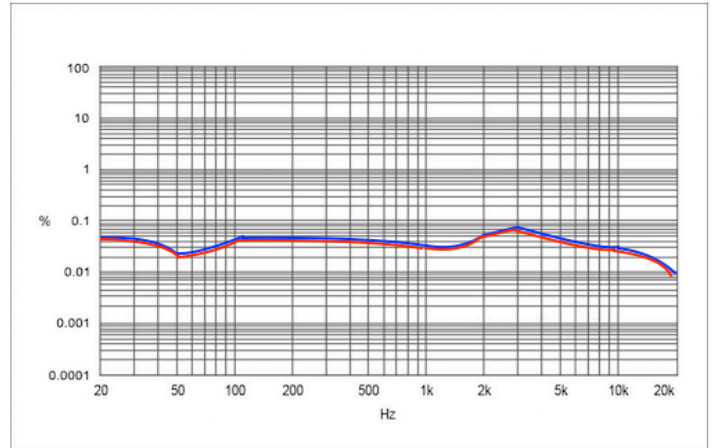
## **APPLICATIONS:**

Shopping Malls, Hotels, Airports, Amusement Parks, Stadiums, Cinemas, Banquet Halls, Cruise Ships, Outdoor Malls, Hospitals, Restaurants, Warehouses, Universities, Water Parks, Bars, Car Audio and more.

**Frequency Response: 100W RMS @ 8 Ohms**



**THD + N vs Frequency: 20W RMS @ Complex Load**



**Blue Line:** Typical Amplifier  
**Red Line:** Typical Amplifier thru Zero-Ohm System

## Acoustic Performance

Frequency Response:	<b>20Hz - 20 kHz</b>
Frequency Range:	<b>20Hz - 20 kHz</b>
Total Harmonic Distortion:	<i>Reference Chart above</i>

## Audio

Input / Output Connector:	<b>Neutrik NL4</b>
Input Pin-Out:	<b>Pin 2+, Pin 2 -</b>
Output Pin-Out:	<b>Pin 1+, Pin 1 -</b>
Minimum Output Impedance:	<b>0.1 Ohms</b>
Max. Power Handling:	<b>4000W</b>

## Physical Properties

Height:	<b>65.1 mm</b>
Width:	<b>438.1 mm / 479.4mm with Rack Ears</b>
Depth:	<b>149.2 mm</b>
Weight:	<b>3.2 kg</b>
Shipping Weight:	<b>4 kg</b> (Including Packaging)

## Ordering Information

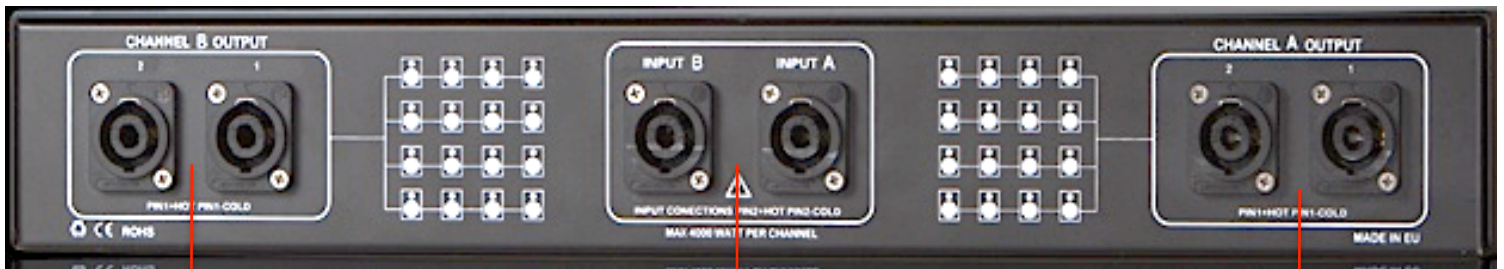
MS-4R Two Channel Rackmount System P/N: **MS-4R**

## Country of Origin

**Made in Canada**

*Since we are always striving to make our products better by incorporating new and improved materials, components and manufacturing methods, we reserve the right to change these specifications at any time without notice.*

## Back Panel SpeakON™ Connectors



Pin 1 +/-



Pin 2 +/-



Pin 1 +/-



### Input / Output NL4 SpeakON™ Connections

- ◆ **Output B** / Pin 1+, Pin 1- / Zone 1 & 2 (to Loudspeakers)
- ★ **Input A,B** / Pin +2, Pin 2- (from Amplifier)
- **Output A** / Pin 1+, Pin 1- / Zone 1 & 2 (to Loudspeakers)

### Setup and Configuration (Example)

