MS-300 NETWORK INTERFACE
QUICK START GUIDE

AUDIO ENHANCEMENT®

PA Mute   WPA-50x   Power/Status Indicator LED   RS-232

Speaker Connections   ALD/Line Output   Input/Output   IP Reset   PoE Network Port

AUDIO ENHANCEMENT®   Model MS-300

Ch.A+ Spk Out
Ch.A- Spk Out
Ch.B+ Spk Out
Ch.B- Spk Out
Public Address
Mute Sense Input

4Ω   4Ω   5-70 VAC

Line Output   WPA-50x   I/O

IP Reset

PoE+ 802.3at
PoE   Activity
Ready
System
Not Ready
Ethernet

Assembled in USA
Rev 7/5/19

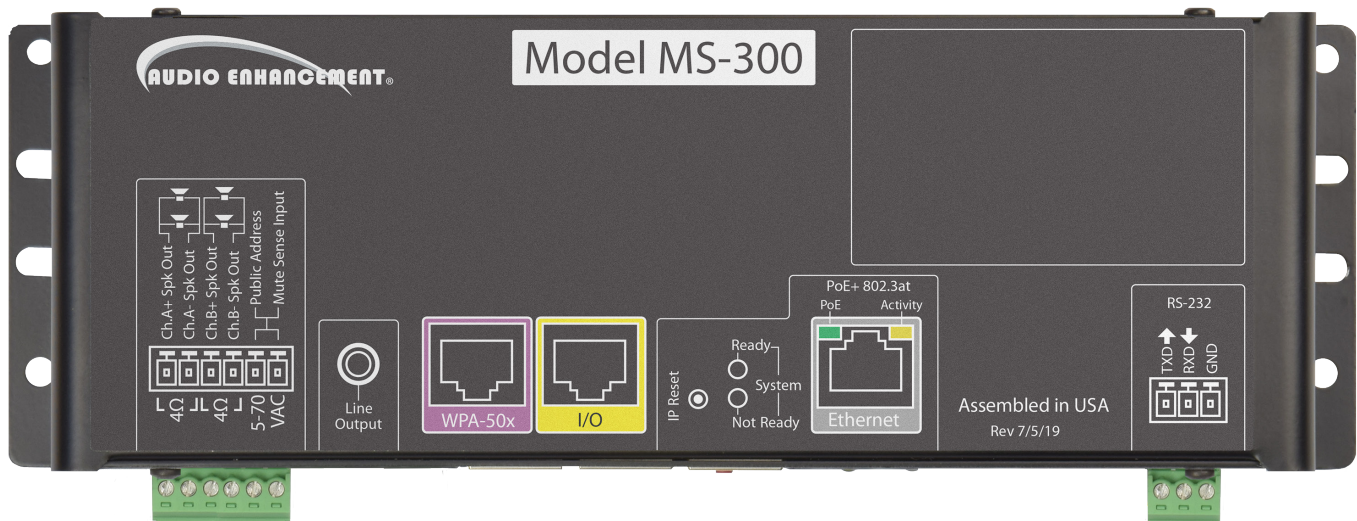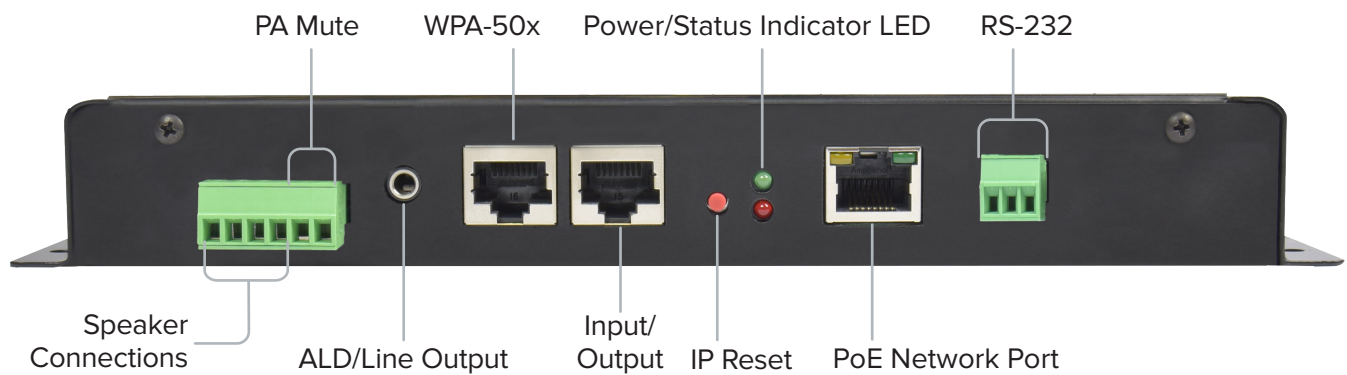RS-232
TXD RXD GND

WPA-50X AND I/O CONNECTIONS

The **MS-300 Network Interface** comes equipped with two ports to handle input and output from other Audio Enhancement® devices such as WPA-500 series wallplates and SAFE System (Signal Alert For Education)® devices through a CAT6 cable connection.
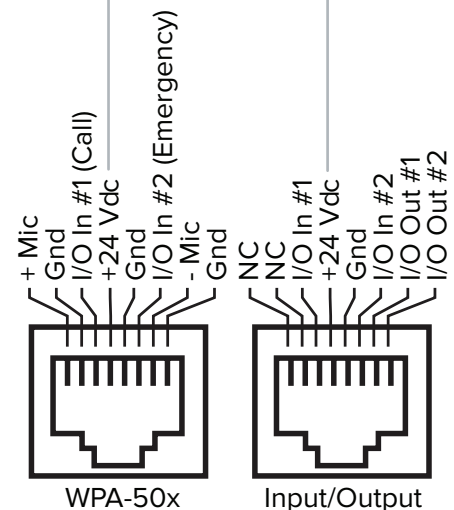

REMINDER

Although there are four I/O connections, there are only two usable I/O ports. Each of the two I/O ports can be configured, via software, to be either an Input or an Output. Each I/O port has two connection pins. One pin is optimized to work as an Input and the other pin is optimized to work as an Output.

Example One: I/O #1 is assigned as an Input. Connect to *I/O In #1* and *Gnd*. Nothing would be connected to *I/O Out #1*.

Example Two: I/O #2 is assigned as an Output.Connect to *I/O Out #2* and *Gnd*. Nothing would be connected to *I/O In #2*.
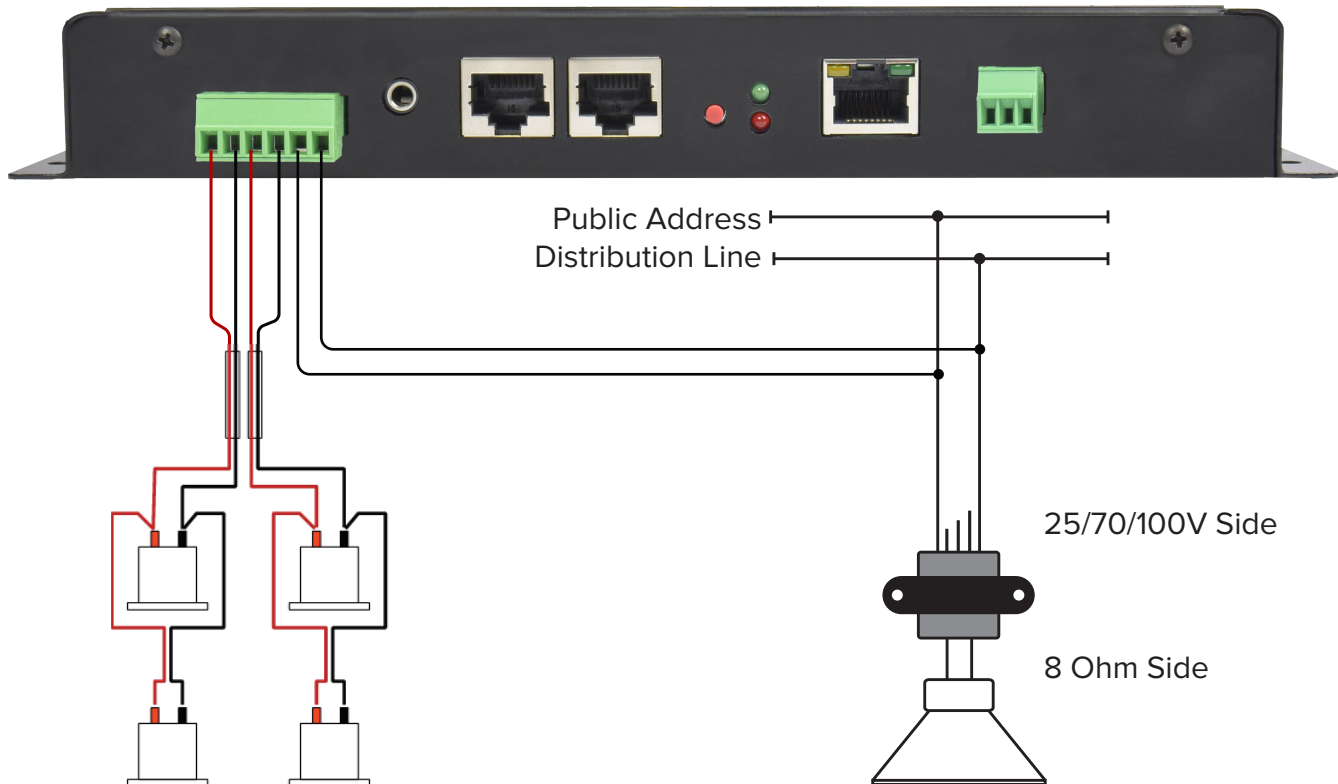
The I/O Ports are shared between the WPA-50x connector and the Input/Output connector. When a WPA-50x is in use, either one or both of the I/O pins are not available for use.

WPA-50x   Input/Output

The WPA-50x port is designed specifically for connection to the following devices:

- WPA-501
- WPA-502
- WPA-504
- WPA-505

SPEAKER CONNECTIONS

Public Address
Distribution Line
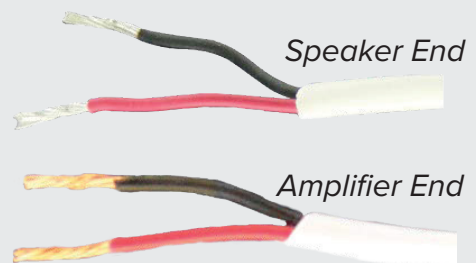
25/70/100V Side

8 Ohm Side

When using 4 speakers, wire ceiling speakers parallel in the ceiling—bringing one speaker wire per pair to the MS-300 amplifier channel.

When connecting the Page Override Terminals, use Standard 2-conductor speaker wire. Connect the wires from the Page Override Terminals to the 25/70/100V side of the transformer. The polarity does not matter.

REMINDER

Speaker wire with tinned leads can be used on the spring loaded terminals on the speaker. However, ensure that the tinned portion of the leads are cut off before being inserted into the green terminal blocks on the amplifier so that bare copper is being captured by the screw compression terminals.

Speaker End

Amplifier End

CONNECTING XD RECEIVER TO MS-300 FOR SAFE SYSTEM

CAT6 Cable

LINE IN L/R · MIX OUTPUT · TO AMPLIFIER · GND · ALERT BUTTON · GND · LINK BUTTON · SG · RxD · TxD · RS-232C · GND · PAGE MUTE · GND · E2 ACK · E2 COM · E2 CNT · E1 COM · E1 CNT

For In-Wall Mounting.   Made in China

AUDIO ENHANCEMENT®