



AMH-24 Amplified Speaker for Hazardous Locations Installation Sheet

Document # 1000-0888 r1.0 2/22/2016

Description

The AMH-24 is a listed for Fire Alarm applications, high output, continuous duty amplified speaker for indoor and outdoor use that can include hazardous locations.

Using the speaker level output of an existing audio system, the AMH-24 is suitable for using in areas of high ambient noise. With extremely low draw on the speaker system, many amplified speakers can be added without affecting the current systems load.

Specifications

Input:

Power; 24VDC nominal, 300/600mA @Normal/Boost power, 819mA maximum
Polarity protected, for use on reversing-polarity power supplies
Audio; 25 or 70VRMS
AC coupled, for use with DC supervised audio circuits
30VDC Maximum Supervisory Voltage

Output UL: 104dBA at 10 feet Normal
107dBA at 10 feet Boost

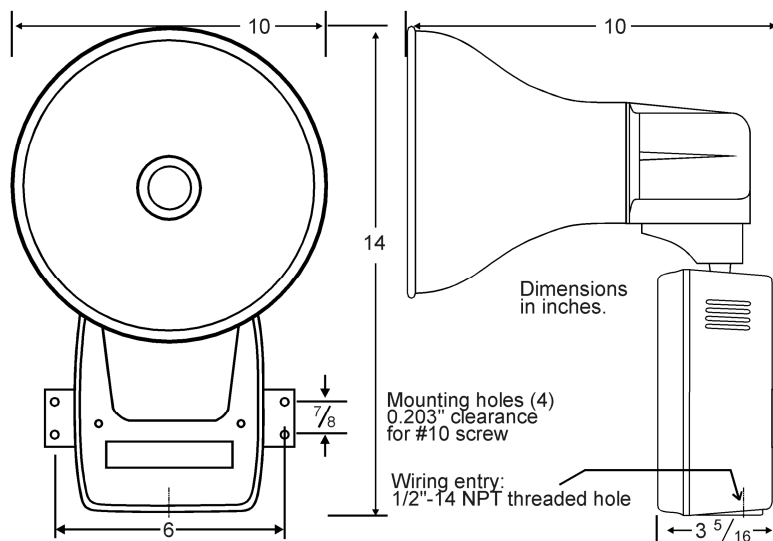
Connections: Rising block terminal strip, with in-out wiring capability

Physical:

Size: 10"W x 14"H x 10"D
Weight: 5.5 pounds

Location:

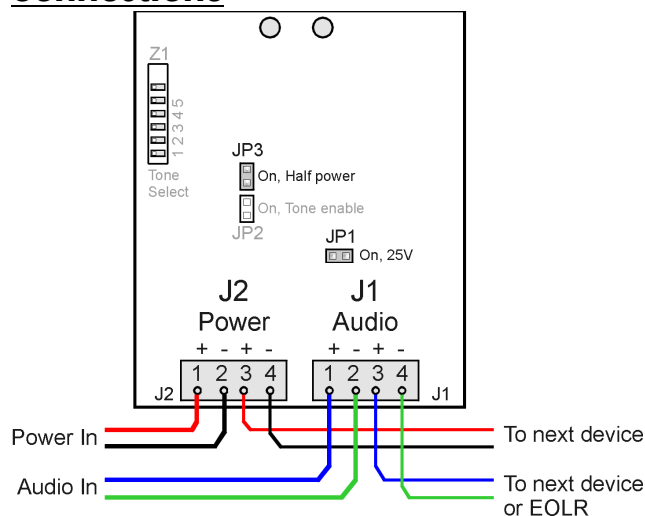
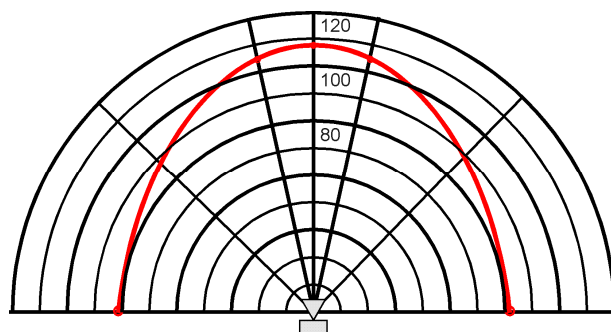
Indoor or Outdoor locations
Suitable for use in:
Class I, Division 2, Groups A, B, C and D;
Class II, Division 2, Groups F and G;
Class III Hazardous locations or
nonhazardous locations only.



Location	Ambient Temperature	T- Code
Class I, Div. 2	-30 to +50C	T5
Class I, Div. 2	-30 to +66C	T4A
Class II, Div. 2	-30 to +66C	T6

Installation

The AMH-24 can be mounted to any flat surface using the mounting holes shown on bracket
 Mount the unit with the projector horizontal or facing down.
 Do not mount where the projector can fill with water or other foreign objects
 The support system must take into account the weight, wind load, and applicable codes and standards.

Connections**Directional Characteristics**

Directional 10ft. Output levels:
 Directly in front (90 degrees); 107dB minimum
 -3dB points; +/- 78 degrees
 Directly to the Sides; 80 dB minimum

Power:

Connect the positive side of the 24VDC supply to terminal J2-1 or J2-3.

Note: Active-positive when this is connected to a polarity-reversing supervised power source.

Connect the negative (common) side of the power supply to terminal J2-2 or J2-4.

USE BOTH TERMINALS FOR CONNECTION. BREAK WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION

Audio:

Connect the audio input pair to terminals J1-1 and J1-2.

Note: The polarity on the audio connections is for reference only.

Connect the audio pair to the next device or the End of Line Resistor (EOLR) on terminals J1-3 and J1-4.

USE BOTH TERMINALS FOR CONNECTION. BREAK WIRE RUN TO PROVIDE ELECTRICAL SUPERVISION

**Warning - Explosion Hazard – Do Not Disconnect Equipment while the circuit is live
 or unless the area is known to be free of ignitable concentrations**

**Avertissement - Risque d'explosion-Ne pas débrancher l'équipement alors que le circuit est sous
 tension, sauf si la zone est connue pour être libres de concentrations inflammable**

Configuration

JP1 The AMH-24 can be connected to either a 25 or 70VRMS speaker circuit.

With the JP1 jumper on, the input is set for 25VRMS; with JP1 off the input is 70VRMS.

On: 25VRMS

Off: 70VRMS

JP2 Always OFF

JP3 The audio output can be doubled (raised 3dB) by removing the JP3 jumper.

On: Normal power

Off: Boost power (+3dB)