

# BE HEARD

In an **EMERGENCY** there are **NO SECOND CHANCES**



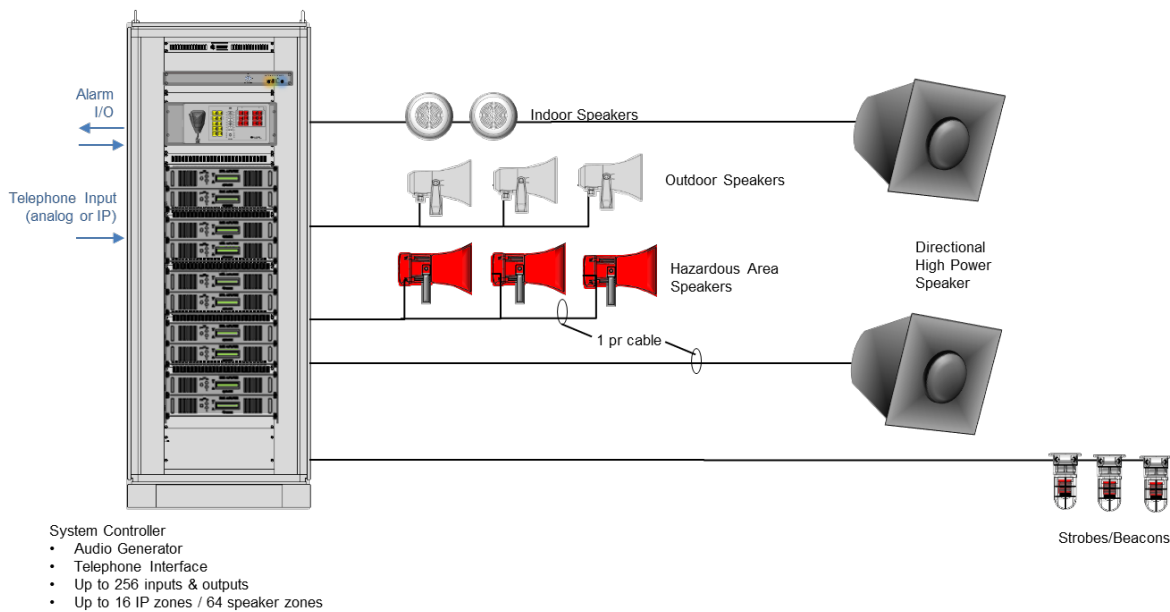
## GETTING THE MESSAGE—LOUD & CLEAR

An emergency message isn't effective if it can't be heard—especially in sprawling, noisy industrial environments. The only way to ensure that everyone in a plant understands your message? Broadcast it. LOUDLY. CLEARLY.

Our wide area communication solutions are designed using the latest in speaker technology to provide their innovative features. These solutions can be interfaced to existing plant systems, including fire & gas detection, notification systems and intra-plant communications.

## AUDIO SIGNALING & NOTIFICATION SOLUTION

A simple system with modular and lightweight design that produces seriously amazing sound clarity.



### Features:

Industry Leading Voice Intelligibility (STI PA = Excellent)

139dB Max SPL @ 1 Meter

Rated for Indoor or Outdoor Applications

Universal Mounting Interface

Built-In Transformer (25V, 70V, & 100V) or 4/8 Ohm Configurable

Durable Environmental Resistant Construction

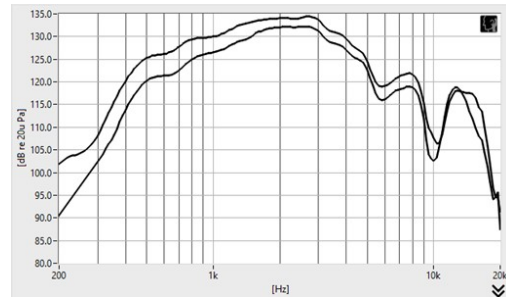


**SPECIFICATIONS**

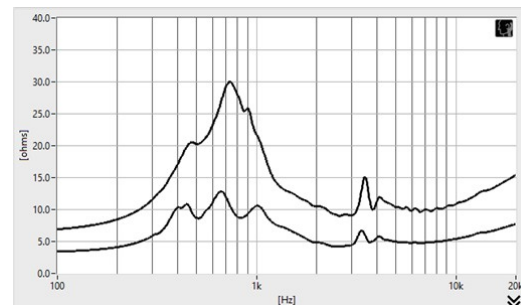
<b>Certifications</b>	UL1480, ULC, CSFM, Class I Division 2
<b>Power Rating</b>	Up to 90W continuous (4 ohm model)
<b>Frequency Response</b>	375Hz - 15kHz (nominal) 400Hz - 4kHz (general signaling)
<b>Sensitivity</b>	112dB @ 1W/1m (Avg 400-4,000Hz)
<b>Dispersion Angle</b>	60° (-3dB), 90° (-6dB)
<b>Weight</b>	9lbs
<b>Dimensions</b>	10.1"H x 10.1"W x 11.3" D
<b>Temperature Range</b>	-40°C - 60°C

**Description:**

Intended for indoor and outdoor audio signaling and notification. The five power settings have been designed to interface with industry standard amplification. Its 90° wide acoustic beam makes it an ideal notification tool for indoor and outdoor areas. The optional dual mount system creates a 180° wide beam that is ideal for outdoor perimeter use. Its best-in-class acoustic coverage allows for fewer units to be installed in large indoor and outdoor areas, lowering installation and long-term maintenance costs while also improving intelligibility and esthetics. Best-in-industry voice quality and intelligibility, combined with sharp and high impact tone capability, make it the right choice for ensuring messages are heard and understood.



**Frequency Response 4Ω and 8Ω @ 1M**



**Impedance 4Ω and 8Ω**

**Architect and Engineer Specifications:**

Unit shall be UL1480 Listed and Class I Division 2 certified, weather resistant and constructed of rugged 5VA rated, UV resistant ABS plastic. The loudspeaker shall be able to operate within any ambient temperature environment ranging from -40°C to 60°C. The speaker shall have a sensitivity of 112dB when measured at 1m (AVG 400-4,000Hz) and a beamwidth of 90° (-6dB at 1kHz). Model shall be a non-re-entrant compression loaded transducer with a 3" polyimide diaphragm and power handling of 45W continuous. The coil shall be a nominal 8 ohm impedance and ferro-fluid shall surround the coil to optimize heat dissipation. When applicable, transformer power settings shall be selectable and include 100V: 45W, 32W, 24W, 16W, 8W; 70V: 24W, 16W, 12W, 8W, 4W; 25V: 3W, 2W, 1.5W, 1W, 0.5W. Speaker shall contain in-line capacitor to allow DC supervision of wiring and be supplied with three feet of conduit with flying leads. Frequency response shall be 375Hz - 15kHz. Dimensions shall be 10.1"H x 10.1"W x 11.3"D.

**Sound Output Ratings:**

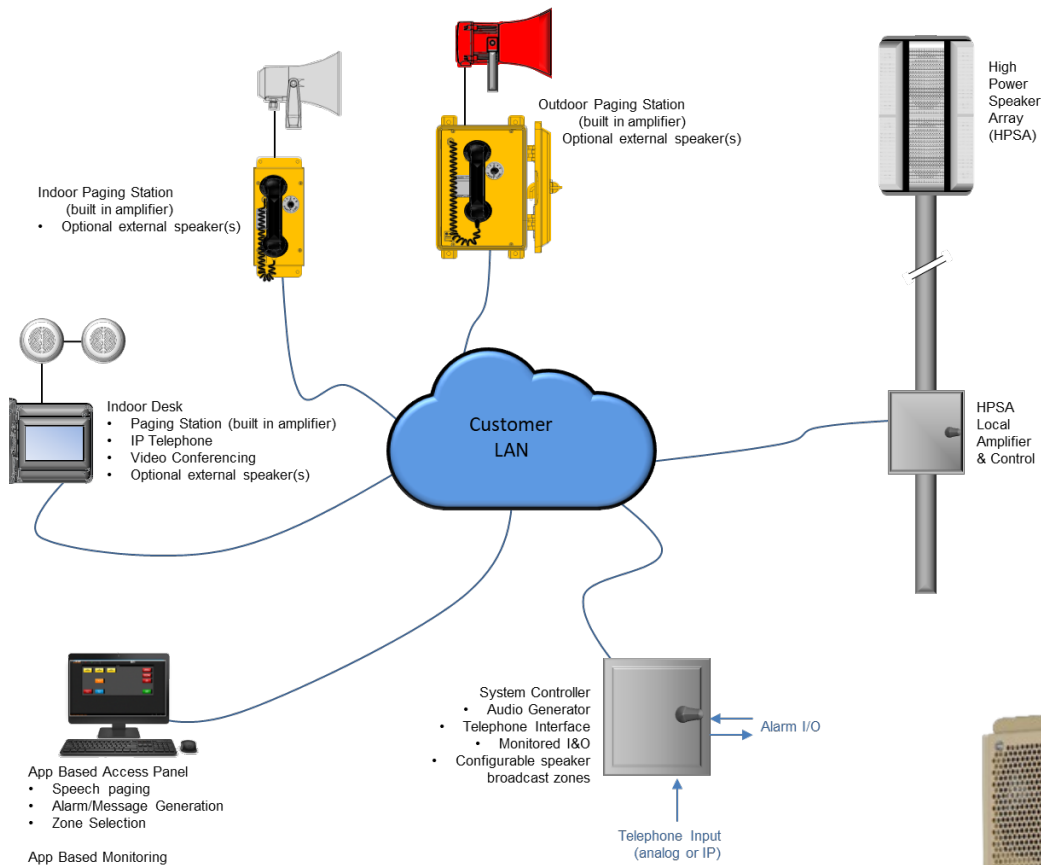
Input Voltage	Watts	dB SPL (Peak @ 1m)	dB SPL (Max @ 1m)	* dB SPL (Reverb @ 10ft)	Usable Range (Feet @ 80dB)
25	0.5	119	114	90	160
25	1	122	117	96	230
25	1.5	124	119	98	290
25	2	126	121	99	360
25	3	128	123	100	460
70	4	129	124	102	520
70/100	8	131	126	104	650
70	12	133	128	107	820
70/100	16	134	129	107	920
70/100	24	136	131	109	1,160
100	32	137	132	110	1,300
100	45	139	134	112	1,640

**Environmental Specifications:**

Ingress Protection	Performs to NEMA 3R standards
Operating Temperature	-40°C - 60°C
Humidity Range	0-75% non-condensing

## HIGH POWER SPEAKER SOLUTION

Ideal when distances are great and communication is critical. This solution utilizes a high power speaker array to produce crystal-clear sound over a two mile radius.



### Features:

148 dB SPL peak acoustic output

2-mile radius

STI 0.91 out of 1.0

UL1480A listed

Hazardous Location Certified: Class I Division 2 (CID2), Groups A, B, C, and D  
outdoor wet listed

5-, 3-, 2-, and 1-sided configurations available



**Description:**

A customizable, omni-directional high power speaker array that broadcasts live and pre-recorded voice commands and tones over a 12 square mile area. Leading the industry in voice intelligibility, the MA-2 speaker design achieves an exceptional STI of 0.91/1.0, ensuring commands are clearly heard, even in high noise environments. The battle tested MA-2 comes with a water-proof, rugged, and UV-resistant enclosure; ensuring durability in harsh environments.

<b>Input Voltage</b>	41 VRMS Multi Channel 90 VRMS Single Channel
<b>Input Power</b>	640 W, max per side, continuous alert tone
<b>Frequency Response</b>	100 Hz - 7 kHz
<b>Beam Width</b>	120° - 360°
<b>Dimensions</b>	12.8" DIA x 45.5" H
<b>Weight</b>	36 - 100 lbs (16.33 - 45.36 kg)
<b>Certifications</b>	CID2 - Groups A, B, C, and D UL1480A Listed CSA C22.2 No. 205 CAN/CSA C22.2 No. 213-15 ANSI/ISA 12.12.01-2015
<b>Environmental</b>	-20°C to 60°C

**Impedance/Power Rating:**

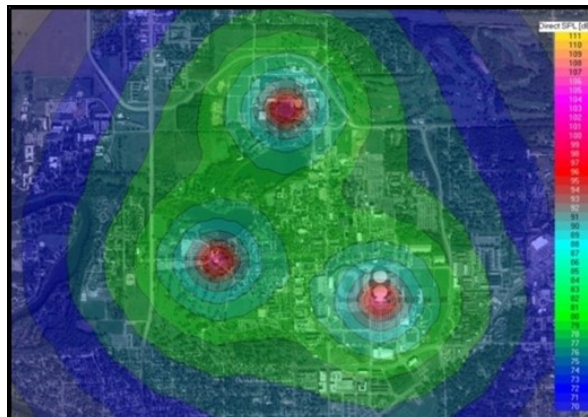
MA-2 90080A 90163A	Impedance (Ω per channel)	Power (Watts)	Directionality
-801	5	3200	360°
-802	8	1920	230°
-803	12	1280	185°
-804	24	640	120°

MA-2 Multi Chan- nel 90224A	Impedance (Ω per channel)	Power (Watts)	Directionality
-801	6	3200	360°
-802	6	1920	230°
-803	6	1280	185°
-804	6	640	120°

**Architect and Engineer Specifications:**

The High Power Speaker Array shall provide alarm tone, pre-recorded or live voice announcements at \_\_\_ dB, measured at 1 meter from the source. The emitter shall be a \_\_\_ sided unit weighing no more than 100 lbs (45.36 kg) with one (1) 2" outside diameter (OD) pipe and pedestal, pole, or wall mounting hardware. The emitter shall be able to transmit an 80 dB (LAeq) audible signal up to 3,280 feet and operate at a power of 640 W to 3200 W. Equipment shall be suitable for indoor or outdoor wet locations and approvals shall include UL1480A listing with Class I Division 2, Groups A, B, C,



College campus overlay using three MA-2 5-sided emitters.



# WIDE AREA COMMUNICATION SOLUTIONS

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Contact your sales representative, distributor or call our toll-free sales hotline for further information at 1-800-492-1212.

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