Micro Axial Series

M X 2

Compact Indoor Loudspeaker
Two way coaxial, bass reflex
1 x 8" ventilated voice-coil cone driver
1 x annular tweeter

Features
Small size
Natural or black wood finish
Wide conical dispersion
Sound clarity & reproduction accuracy

Applications
High class sound system
Distributed sound
Fixed installation, Monitoring

Specifications
150W AES
95dB SPL@1W, 1m
8 Ohm
110°conical dispersion
14.2" x 9.5" x 8.7" (360 x 240 x 220 mm)
2 thermal protections

Mono amplification mode
Optional processor
Optional subwoofer

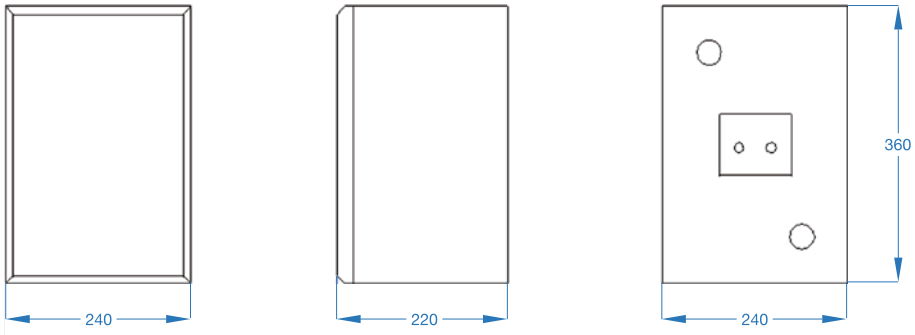
The APG MX2 Speaker is a two way wideband speaker developed for high quality fixed installations. It features a specific 8" cone driver with a coaxial dome tweeter.
The MX2 is characterized by an extended bandwidth in the low frequency compared to the MX1. In addition, it offers the same precision and finesse of sound reproduction in Medium and High frequencies.
The coaxial mounting offers a perfect acoustic dispersion with a homogenous dispersion covering of 110°.
The standard version is in natural beech finish while the MX2N is a black ash veneer.
The T50 and T100 options comprise a 50W or 100W additional transformer for 70V-100V line cabling.
The APG SPMX2 processor is not compulsory for wideband applications. It becomes mandatory to provide active filtering and system alignment between the subwoofer and the MX2 when low frequencies reinforcement is required. A dynamic processor LPMX2 is available for higher protections of the loudspeakers when full power operation from the system is needed.
APG team recommends the following subwoofers: SUB12MX/N, SUB138P/S.

MX2 loudspeaker shown with natural varnish wood (MX2) and black varnish wood (MX2N) finish

The MX2 is a compact speaker offering studio monitor reproduction quality, intended for small and medium size indoor sound systems as well as for additional distributed sound in large installations.
Taking advantage of its compactness and its wide acoustical coverage, the MX2 produces a clear and consistent sound while being very discreet.
The two very high standard finishes offer the possibility of blending them in any modern design environment.
The MX2 can be installed in many ways, wall, ceiling or truss-mounted via its specific rotating lyre bracket (option ETMX2), or simply put on a shelf. When used in full range mode, the MX2 is ideal for conference applications, background music or as additional satellites for large P.A. system.
Combined with APG's subwoofers, the MX2 constitute a very nice surround system ideal for background music applications in high class restaurants, cabarets or private clubs. It is also suitable for clubs, lounges and small dancing areas.

APG

MX2
Technical Specifications



Features	Low section	High section
Frequency rang with processor	65 Hz to 2.6 kHz	2.6 kHz to 24 kHz
Frequency rang without processor	80 Hz to 2.6 kHz	2.6 kHz to 20 kHz
Sensitivity 1W to 1m, f> 120 Hz	95 dB SPL	95 dB SPL (1)
Continuous dB SPL level @1m	117 dB SPL	
dB SPL max level @1m (2)	123 dB SPL	
dB SPL peak level @1m (3)	129 dB SPL	
Coverage angles	110° Conical (4)	
Nominal impedance	8 Ohm	

Components

Transducers	1 x 8" with ventilated driver	1 x dome tweeter
Coil diameter	45 mm (1.75")	26 mm (1")
Type of load	Bass Reflex	Coaxial horn

Power

Recommended amplifier	150 to 300 W
Peak	450 W
AES (5)	150 W

Construction and characteristics

Cabinet	MDF 15 mm
Passive crossovers	Air-core inductors, paper capacitors, wound resistors
Overload protection	Thermal circuit breaker with automatic reload
Finish	Black impact resistant aquarethane coating
Front panel	Black Jersey fabric
Connectors	2 x SPEAKON NL4MP (6)
Dimensions (H, W, D)	14.2" x 9.5" x 8.7" (360 x 240 x 220 mm)
Net weight	20 lb (9 kg)
Gross weight, packing x 2	46 lb (21 kg)

Options and Accessories

ETMX2 (7)	Lyre bracket for MX2 and MX2N speakers
INOX0 (8)	Stainless steel screws and waterproof treatment cone driver
T50	Line transformer 70V / 100V, 50W
T100	Line transformer 70V / 100V, 100W

Signal Processing

The SPMX2 processor provides frequency response optimization, sub-and-ultra-sonic protection, active crossover and signal conditioning and distribution for a stereo system including subwoofers.

In addition to the standard SPMX2 functions, the LPMX2 processor includes dynamic protection with simulation of operational limitation parameters, i.e. diaphragm displacement, voice coil temperature and amplifier clipping. This processor also allows optimization of the phase alignment between the subwoofers and the main loudspeakers. It features a bank of switches to adapt to the type of subwoofer being used.

Although the MX2 is a passive speaker system, the specifications table clearly shows a high and a low section. With this information, the precise amount of energy reproduced by each transducer can be worked out as well as the frequency bands within which they operate.

(1) The 95dB efficiency measurement is taken after attenuation ; before attenuation the sensitivity is 100dB. This attenuation not only allows the system to become linear but also increases the power handling in the given frequency range.

(2) AES2 Norrm 1984.

(3) AES2 Norm 2012.

(4) Dispersion is controlled from 500 Hz. The angles given here are irrelevant below this frequency.

(5) In order to take full benefit of the dynamic performance, sonic quality and reliability of the speakers, the recommended amplification must at least correspond to the AES rating. Lesser amplification is acceptable for applications requiring less power (near-field, distributed systems,...), whilst not being less than half the AES rating. The AES power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range of one decade.

(6) The 4 pins Speakon connectors are wired 1+, 1- in Lo/LoMid and 2+, 2- in Mid/Hi.

(7) ETMX2 is a 4 mm steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

(8) Stainless steel screws and waterproofing of speaker cones.

5 YEARS WARRANTY "A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

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