

# Micro Series

# MC2

## Compact Loudspeaker

Two way d'Appolito mounting, bass-reflex  
2 x 6.5" ventilated driver (w/37 mm voice coil)  
1 x tweeter

## Features

Very compact size  
Total flexibility F.O.H / monitor  
Sound clarity and precision  
High efficiency

## Applications

High precision in MID/HI frequencies  
Distributed Sound

## Specifications

200 W AES  
100 dB SPL @ 1W/1m  
90° H x 60° V  
18.9" x 13.4" x 13.2" (480 x 340 x 335 mm)  
2 Thermal Protections

Mono-amplification mode  
Optional Processor  
Optional Subwoofer

MC24 : 4 ohms version  
MC216 : 16 ohms version  
MC2416 : 4/16 ohms switchable version

The MC2 is a two-way full range speaker. The low/mid section comprises two 6.5" with one annular compression tweeter for the high section.

The enclosure features a 45° slant panel for stage monitor application and the fittings comprise a recessed hand hold, a 36 mm pole mount socket and threaded inserts to install a lyre bracket (option ETMC2).

The MC2 stands out by a very impressive size/power ratio and its accuracy in vocal reproduction. The T100 & T200 options include 100 W or 200 W additional transformers allowing installation with 70V-100V line.

The SPMICRO allows optimizing the operation of the MC2 in full range mode or with APG subwoofers.

APG team recommends the following subwoofers for the MC2: SUB138P, SUB238S or TB115S.



MC2 shown in FOH and stage monitor settings

The MC2 offers total flexibility between stage monitor and F.O.H applications, with or without subwoofers.

The MC2 is recommended for small to medium size areas and as delay complements in large P.A. systems. Its compactness and sound clarity make it the perfect loudspeaker for applications where unobtrusiveness and high quality sound reproduction are required.

The MC2 can be installed in many ways, wall or ceiling-mounted with its optional steel bracket, (ETMC2) or directly on a pole or simply put on a shelf.

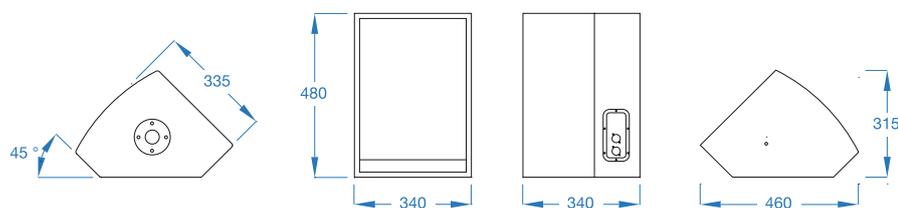
When use in full range mode, the MC2 is dedicated to vocal applications such as conferences or congress in radio studio and TV stage and has become a must. Combined to APG subwoofers, the MC2 allow to set up very discreet FOH systems perfect for clubs, bars, or multimedia rooms' applications.

The SPMICRO static processor provides system alignment, cross-over, infrasonic and ultrasonic protection and distribution of signals; a mono subwoofer output with front panel adjustment feeds an optional subwoofer amplifier channel.

# APG

# MC2

## Technical Specifications



### Features

	Low section	High section
Frequency range with processor ( $\pm 3$ dB)	60 Hz to 2.6 kHz	2.6 kHz to 20 kHz
Frequency range without processor ( $\pm 3$ dB)	75 Hz to 2.6 kHz	2.6 kHz to 20 kHz
Sensitivity @1W 1m, $f > 100$ Hz	100 dB SPL	101 dB SPL (1)
Maximum continuous level at 1m, $f > 100$ Hz	122 dB SPL	121 dB SPL
Peak level at 1m, $f > 100$ Hz	128 dB SPL	125 dB SPL
Coverage angles	120° H x 60° V (2)	90° H x 60° V (2)
Nominal impedance	4 Ohm or 16 Ohm (3)	

### Components

	Low section	High section
Transducers	2 x 6,5" with ventilated driver	1 x horn tweeter
Coil diameter	37 mm (1.5")	26 mm (1")
Type of load	Bass reflex	Horn

### Power

Recommended amplifier (4)	200 to 400 W
Peak	600 W
AES (4)	200 W

### Construction and characteristics

Cabinet	15 mm Finnish birch plywood
Passive crossovers	Air core inductors, plastic film capacitors, wound resistors
Overload protection	Thermal circuit breaker with automatic reload
Coating	Black, impact resistant polyurethane
Protection grill	Acoustically transparent perforated steel grid, thickness 1.5 mm
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NLM4P (5)
Handles	1 x wooden cut out handle
Fittings	1 x 36 mm, pole mount socket
Dimensions (H,W,D)	18.9" x 13.4" x 13.2" (480 x 340 x 335 mm)
Net unit weight	30.9 lb (14 kg)
Gross weight packed, one pair	68.4 lb (31 kg)

### Options and Accessories

ETMC2 (6)	Lyre bracket for MC2 speaker
INOX01 (7)	Stainless steel screws and waterproof treatment cone driver
TROPIC01 (8)	Full treatment : wooden cabinet, screws and HP
REPEINT03 (9)	Painting option according to RAL or PENTONE reference
T100	Line transformer 70 / 100V, 100W
T200	Line transformer 70 / 100V, 200W

### Signal Processing

The SPMICRO processor provides active crossover, EQ, beside the other standard filtering fonctions for a stereo system including subwoofers.

We have included a High and Low Section in the features table although it is unusual to illustrate this in the specifications of a passive system such as the MC2. From this information it is possible to calculate the precise amount of energy reproduced by each transducer, and also the frequency bands within which they operate.

(1) Power shaping optimizes system linearity and increases power handling in the given frequency range. Sensitivity measures 106dB before power shaping and 100 dB afterwards.

(2) Dispersion is controlled from 800 Hz. The angles given here are irrelevant below this frequency.

(3) The MC2 is available in 4 ohms (MC24), 16 ohms (MC216) or switchable 4/16 ohms (MC2416).

(4) 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.

(5) The SPEAKON connectors are wired hot pin 1+, cold pin 1-.

(6) ETMC2 is a 4 mm steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

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

(8) Tropicalisation includes fiber-glass reinforced polyester coating of the cabinet, stainless steel screws and waterproofing of speaker cones.

(9) Paint preparation for the requested color.

**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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Due to this, new materials, manufacturing methods and technological changes may be introduced without prior notice. As a result, an APG product can differ from its published description in certain areas. However, unless otherwise indicated, its characteristics will always equal or better the published specifications.

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