

# Micro Series

## Compact Loudspeaker

Two way, bass-reflex  
1 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 & high precision reproduction

## Applications

Small F.O.H, TV stage monitor  
Additional delay speaker for large system  
Distributed Sound

## Specifications

100 W AES  
96 dB SPL @ 1W/1m  
8 Ohm  
70° H x 70° V  
15.7" x 10.2" x 10.2" (400 x 260 x 260 mm)  
2 Thermal Protections

Mono-amplification mode  
Optional Processor  
Optional Subwoofer

The APG MC1 speaker is a full range two-way compact loudspeaker. The low/mid section is created by a 6.5" PHL Audio speaker with one annular compression tweeter for the high section. Like the other Micro Series Loudspeaker, the MC1 is characterized by its small dimension and its exceptional size/power ratio. 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 T50 & T100 options include 50W or 100W additional transformers allowing installation with 70V-100V line

Dedicated processor is available to operate the MC1 in full range mode or combined with subwoofers when low frequency reinforcement is required. APG recommends the following subwoofers with MC1 speaker: SUB138P/PS or TB115S.

# MC1



MC1 shown in FOH and stage monitor settings

The MC1 offers total flexibility between stage monitor and F.O.H applications, with or without subwoofers. This speaker stands out by its extreme reliability and vocal performance.

The MC1 is recommended for small to medium size areas and as delayed 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 MC1 can be installed in many ways, wall or ceiling-mounted with its steel bracket, directly on a pole or simply put on a shelf.

The MC1 can be fitted with an optional 70V-100V transformer when a large number of loudspeakers is required.

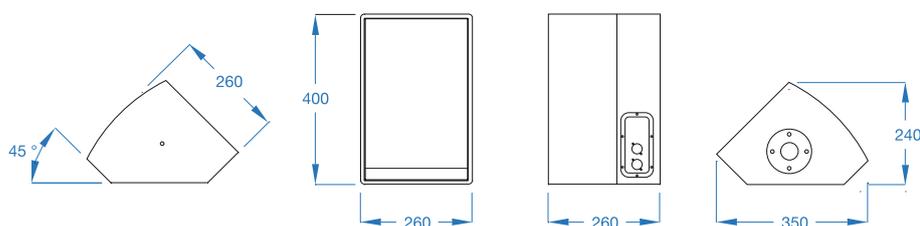
When used in full range mode, the MC1 is dedicated to vocal applications such as conferences or congress in radio studio and TV stage the MC1 has become a must. Combined to APG subwoofers, the MC1 allows to setup very discreet FOH systems perfect for clubs, bars, or multimedia rooms.

The SPMICRO static processor provides system alignment, cross-over, infrasonic and ultrasonic protection and distribution of signals; being optional it becomes compulsory for music application when the use of subwoofer is required.

# APG

# MC1

## Technical Specifications



### Features

	Low section	High section
Frequency range with processor ( $\pm 3$ dB)	65 Hz to 2,6 kHz	2,6 kHz to 20 kHz
Frequency range without processor ( $\pm 3$ dB)	80 Hz à 2,6 kHz	2,6 kHz à 20 kHz
Sensitivity 1W@1m, f > 100 Hz	96 dB SPL	97 dB SPL (1)
Maximum continuous level at 1m, f > 100 Hz		116 dB SPL
Peak continuous level at 1m, f > 100 Hz		122 dB SPL
Dispersion angle		70° Conical (2)
Nominal impedance		8 Ohm

### Components

	Low section	High section
Transducers	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	100 to 200 W
Peak	300 W
AES (3)	100 W

### Construction and characteristics

Cabinet	15 mm Finnish birch plywood
Passive crossovers	Air core inductors, paper capacitors, wound resistors
Overload protection	Thermal circuit breaker with automatic reload
Finish	Black, impact resistant aquarethane coating
Protection grill	Acoustically transparent perforated steel, thickness 1.5 mm
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NLM4P (4)
Handles	1 x wooden cut out handle
Mounting on stand	1 x 36 mm, built in stand fitting
Dimensions (H,W,D)	15.7" x 10.2" x 10.2" (400 x 260 x 260 mm)
Net unit weight	19.8 lb (9 kg)
Gross weight packed, one pair	46.2 lb (21 kg)

### Options

ETMC1 (5)	Lyre braket for MC1 speaker
INOX01 (6)	Stainless steel screws and waterproof treatment cone driver
TROPIC01 (7)	Full treatment : wooden cabinet, screws and HP
REPEINT03 (8)	Painting option according to RAL or PENTONE reference
T50	Line transformer 70V / 100V, 50W
T100	Line transformer 70V / 100V, 100W

### Signal Processing

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

Although the MC1 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) Power shaping optimizes system linearity and increases power handling in the given frequency range. Sensitivity measures 103 dB before power shaping and 97 dB afterwards.

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

(3) 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.

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

(5) ETMC1 is a 4 mm steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

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

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

(8) 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.

Printing : November 2013

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