



# APM104

## Digital paging microphone 4 zones

### Highlights:

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- High quality back electret condenser capsule with cardioid pickup pattern
- Flexing gooseneck structure for highly accurate positioning
- Integrated memory for voice-file storage & playback
- Level & status indication LED's
- 4 Colours illuminated push button

The APM104 is a digital paging microphone for 4 zones which is equipped with a condenser element with cardioid characteristic, mounted on a 30 cm gooseneck. By means of a built-in compressor / limiter, the output level of the microphone signal is constantly maintained. The status of the reproduced signal is indicated on the front panel, to ensure the speaker that the message is clear and audible in all situations. The console has 4 zone selection buttons and three standard buttons with preassigned functions: PTT (Push To Talk), select all and clear. The functions can be freely programmed by using the APM configuration software. In combination with the AUDAC ARU relay groups, the APM paging consoles offer a wide range of possibilities.

### Applications:

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- Public facilities
- Corporate spaces
- Sport facilities



## System specifications:

Microphone	Type	Back electret condenser
	Gooseneck length	350 mm
Polar Pattern		Cardioid (unidirectional)
Frequency	Response ( $\pm 3$ dB)	100 Hz - 20 kHz
Sensitivity (1W/1m)		-42 dB
Indicators		3 Colours illuminated push button Level & status indication LED's
Internal storage		10 minutes audio or messages spread over max 30 files
Power	Consumption	4.8 W (max.)
	Supply	24 V DC (min. 16V DC)
Connectors		RJ45 (data + Power)
Max. cable length	Without external PSU	113 m
	With external PSU	300 m
Connection standard		TIA/EIA T568B
Buttons		4 x programmable zone/function 1 x PTT (push-to-talk) 1 x select & clear all

## Product Features:

Dimensions		120 x 55 x 190 mm (W x H x D)
Weight		1.350 kg
Data protocol		RS-485
Audio protocol		Analogue Digital (configurable)
Required cabling	Analog	UTP CAT5E
	Digital	UTP CAT6
Colours		Grey metallic front panel
Construction		Steel
Accessories	Included	Windscreen (MWS05/B)
	Optional	ARJ03P junction box CP45ARJ RJ45 junction plate PSD24x external Power supply

## Variants:

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- APM104MK2 - Digital paging microphone 4 zones

## Shipping & Ordering:

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Packaging	Cardboard box
Shipping weight & volume	2.000 kg - 0.0012 Cbm

## Architects' and Engineers' Specifications:

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The digital paging microphone shall be an four zone system, allowing selection of four independent and freely programmed zones and/or functions. It shall contain a gooseneck microphone with a length of 350 mm which is fitted with a back electret condenser element with cardioid polar pattern. A built-in compressor/limiter shall keep the output level of the microphone at a constant level. The front panel shall contain LED indicators whereby the level of the spoken message can be monitored, giving feedback to the speaker for a clear and intelligible spoken message. Another LED shall indicate whether the data bus is occupied by another con-sole which may be connected to the same data bus. The programmable functions of the zone/function indication buttons shall include zone selection, push-to-talk, relay activation and voice file playback. Besides these programmable buttons, three additional buttons for 'PTT' (Push To Talk), 'Select all' and 'Clear all' shall be provided. In addition to these standard features, 'Multiple Ding-Dong' and 'Voice file playback" functionality shall be offered, allowing you to upload custom chime tunes for playback ahead of spoken voice announcements and record or upload messages for storage in the internal memory allowing playback triggering by button activation or at pre-defined moments. The audio output shall be configurable and compatible with both analogue and digital audio systems, allowing the paging micro-phon to be used in combination with various intelligent matrix systems as well as intelligent relay switch units enabling implementa-tion to other sound / announcement systems. The connection of the paging system with the main unit shall be implemented using a single RJ45 connector which includes both data and power distribution. The used transmission medium for both audio and RS-485 communication shall be done over one single UTP CAT5E (for analogue audio transfer) or CAT6 (for digital audio transfer) cable. The system enclosure shall be solid constructed using steel materials with a front panel finished in a grey metallic colour. The base dimensions shall be 120 x 55 x 190 mm and the weight shall not exceed 1.35 Kg.

