



# APM116

## Digital paging microphone 16 zones

### Highlights:

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- High quality back electret condenser capsule with cardioid pickup pattern
- 35 cm flexing gooseneck microphone
- Integrated memory for voice-file storage & playback
- Level & status indication LED's
- 16 Colours illuminated push button

The APM series are digital paging microphones fitted with a 32 cm gooseneck microphone containing a back electret condenser cell with cardioid pickup pattern. A built-in limiter constantly monitors the input level, guaranteeing a constantly maintained and clear output signal. The status of the reproduced signal is indicated using different LED's on the microphone's base, providing an indication to the speaker that the signal is clear and audible in all situations. Each console contains three standard buttons (Except the APM101MK2 which only has PTT) with pre-assigned functions: PTT (Push To Talk), select all and clear all. The other function buttons can be configured to make announcements to particular zones, grouping zones or other functions. (Trigger & switch relay, voice-file announcements, ... ) Standard configurations can be made using matrix systems (R2 & M2) while special configurations can be programmed using the APC100 configurator tool in combination with 'AUDAC system manager' software.

### Applications:

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- Public facilities
- Corporate spaces
- Sport facilities



## System specifications:

Microphone	Type	Back electret condenser
Polar Pattern		Cardioid (unidirectional)
Frequency	Response ( $\pm 3$ dB)	100 Hz - 20 kHz
Sensitivity (1W/1m)		-42 dB $\pm 3$ dB / Pa
Buttons		16 x programmable zone/function
		1 x PTT (push-to-talk)
		1 x select & clear all
Indicators		3 Colours illuminated push button
		Level & status indication LED's
Internal storage		10 minutes audio or messages spread over max 30 files
Power	Supply	24 V DC (min. 16V DC)
	Consumption	4.8 W
Microphone	Gooseneck length	350 mm
Connectors		RJ45 (data + Power)
Connection standard		TIA/EIA T568B
Max. cable length	With external PSU	300 m
	Without external PSU	133 m

## 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)
Colours		Grey metallic front panel
Construction		Steel
Required cabling	Analog	UTP CAT5E
	Digital	UTP CAT6
Accessories	Included	Windscreen (MWS05/B)
	Optional	ARJ03P junction box
		CP45ARJ RJ45 junction plate
		PSD24x external Power supply

## Shipping & Ordering:

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Packaging

Cardboard box

Shipping weight & volume

2 kg - 0.0012 Cbm

## Architects' and Engineers' Specifications:

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The digital paging microphone shall be a sixteen zone system, allowing selection of sixteen 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 con-denser 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-phone to be used in combination with various intelligent matrix systems as well as intelligent relay switch units enabling implementation 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.