APM101 MK2

Digital paging microphone - 1 zone/function

▶ Features

- **1 programmable PTT (push-to-talk) button**
- **Analogue & digital audio transfer**
- **Selection & status indication LED's**
- **Gooseneck microphone (cardioid)**
- **Internal memory for ding-dong/voicefile**
- **Built-in compressor/limiter**
- **Custom button labeling for project overview**

▶ Applications

- **Public buildings**
- **Emergency services**
- **Warehouses**
- **Business offices**
- **Sports sites**
- **...**

The APM101MK2 is a fully digitally controlled paging microphone featuring a programmable and configurable push-to-talk button, allowing it to be used for a wide varity of paging purposes, ranging from dispatching, priority calls, evacuation and general purpose announcements.

The audio output is configurable for both analogue as well as digital audio output, allowing the APM101MK2 to be used in combination with various intelligent matrix systems as well as intelligent relay switch units which allow implementation to any existing sound / announcement systems.

The configuration can be freely programmed using the corresponding user interface or software tool. Few examples of programmable functions are zone select, push-to-talk, relay activation and even voice file playback. This allows the APM101MK2 to be implemented to a wide varity of applications ranging from simple & small to the most complex and demanding applications.

In addition to standard paging / announcement systems functionality, the APM101MK2 offers specific features such as 'multiple ding-dong' allowing uploading and playback of custom chime tones and a voice file playback which allows internal storage of voice files with a maximum of 10 minutes spread over 30 different files. Voice file playback is triggered by button activation or at pre-defined moments.

The paging console is fitted with a cardioid gooseneck microphone and the system operation is monitored through three colour illuminated push buttons and various indicator LED's. Custom button labeling further improves a clear and specific project overview.

▶ Specifications

SYSTEM SPECIFICATIONS	
Microphone type	Back electret condenser
Polar pattern	Cardioid (Uni-directional)
Frequency response	100 Hz - 20 kHz
Sensitivity	-42 dBV ±3 dB / Pa
Buttons	1 x Programmable PTT (push-to-talk)
Indicators	3 Colour 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)
Max power consumption	4.8 Watt
PRODUCT FEATURES	
Dimensions (Width x Height x Depth)	120 x 55 x 190 mm
Microphone gooseneck length	350 mm
Weight net	1.350 Kg
Connection	RJ45 (data + power)
Data protocol	RS-485
Audio protocol	Analogue / digital (configurable)
Connection standard	TIA/EIA T568B
Required cabling	UTP CAT5E (analog) / CAT6 (digital)
Max cable length	300 meter (with external PSU)
	133 meter (without external PSU)
Colour	Grey metallic front panel
Construction	Solid steel enclosure
SHIPPING & ORDERING	
Packaging	Cardboard box
Shipping weight & volume	2 Kg - 0.0012 Cbm
Accessories included	MWS05/B windscreen
Optional accessories	ARJ03P junction box
	CP45ARJ RJ45 junction plate
	PSD24x external power supply

*AUDAC reserves the right to change specifications without notice: this is part of our policy to continuously improve our products.

▶ Architects' and Engineers' Specifications

The digital paging microphone shall be a one zone system, allowing free selection and programming of 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 console which may be connected to the same data bus.

The programmable function of the zone/function indication button shall include zone selection, push-to-talk, relay activation and voice file playback.

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 microphone 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.

▶ Technical drawing