

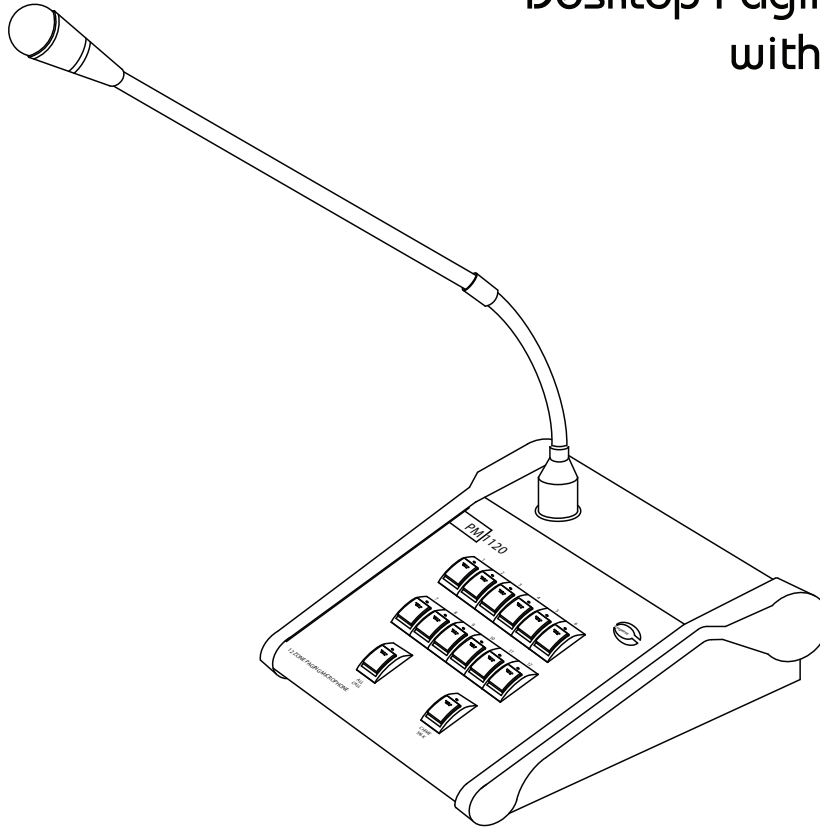


INSTRUCTION MANUAL

PM1060

PM1120

Desktop Paging Microphone
with Zone Selector



Thank you for choosing another quality product from Amperes Electronics.

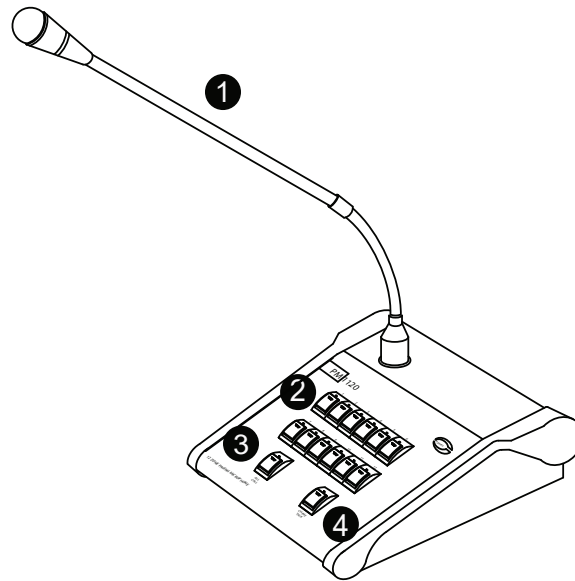
PM1060 / PM1120 has been upgraded with improved circuitry to deliver better speech clarity, which is important in any voice announcement.

We recommend that a thorough reading of the manual is done prior to installation in order to avoid unnecessary error.

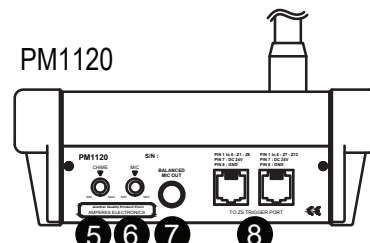
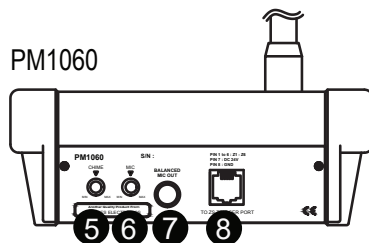


Parts Identifications

FRONT VIEW



REAR VIEW



1. GOOSENECK MICROPHONE

A detachable gooseneck microphone is provided with this console. Its cardioid back electret capsule is sensitive to front voice pick up and reject rear unwanted noise.

2. ZONE SELECTION SWITCHES

12 individual zone selection switches are available for PM1120 and 6 for PM1060. LED indicator is provided for active zone.

3. ALL CALL SWITCH

ALL CALL switch shall activate all zones with single press.

Parts Identifications

4. CHIME / TALK SWITCH

Pressing this switch shall send signal for zones activation and follow by a 4 tones up chime. Gooseneck microphone LED shall lit to indicate that the console is ready for announcement.

Pressing the switch again shall deactivate the console in which a 4 tones down chime shall be broadcasted before ending the zone selection.

5. CHIME VOLUME CONTROL

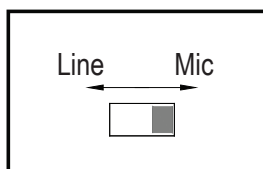
Adjust chime volume

6. MICROPHONE VOLUME CONTROL

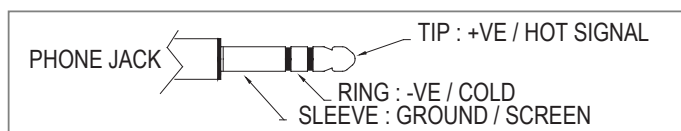
Adjust mic volume.

7. BALANCED MIC OUT

Paging signal is sent out via this port. Connect this port to audio amplifier / mixer using a 1/4" stereo phone jack. The output audio is a balanced signal and the level can be set to mic or line level via a switch located at the bottom of the console.



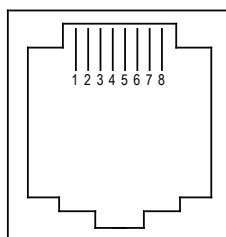
Mic / Line level switch



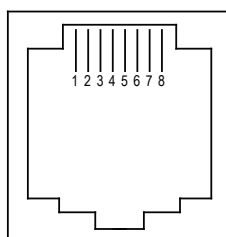
The output level can be set to mic / line level by toggle a switch located at the bottom of the unit.

8. POWER AND DATA PORT

Connect these RJ45 connectors to external devices like MA2000 / ZS Series zone selector remote trigger ports. PM1060 / PM1120 shall take DC 24V power from the external devices and provide control signal for zone selection.

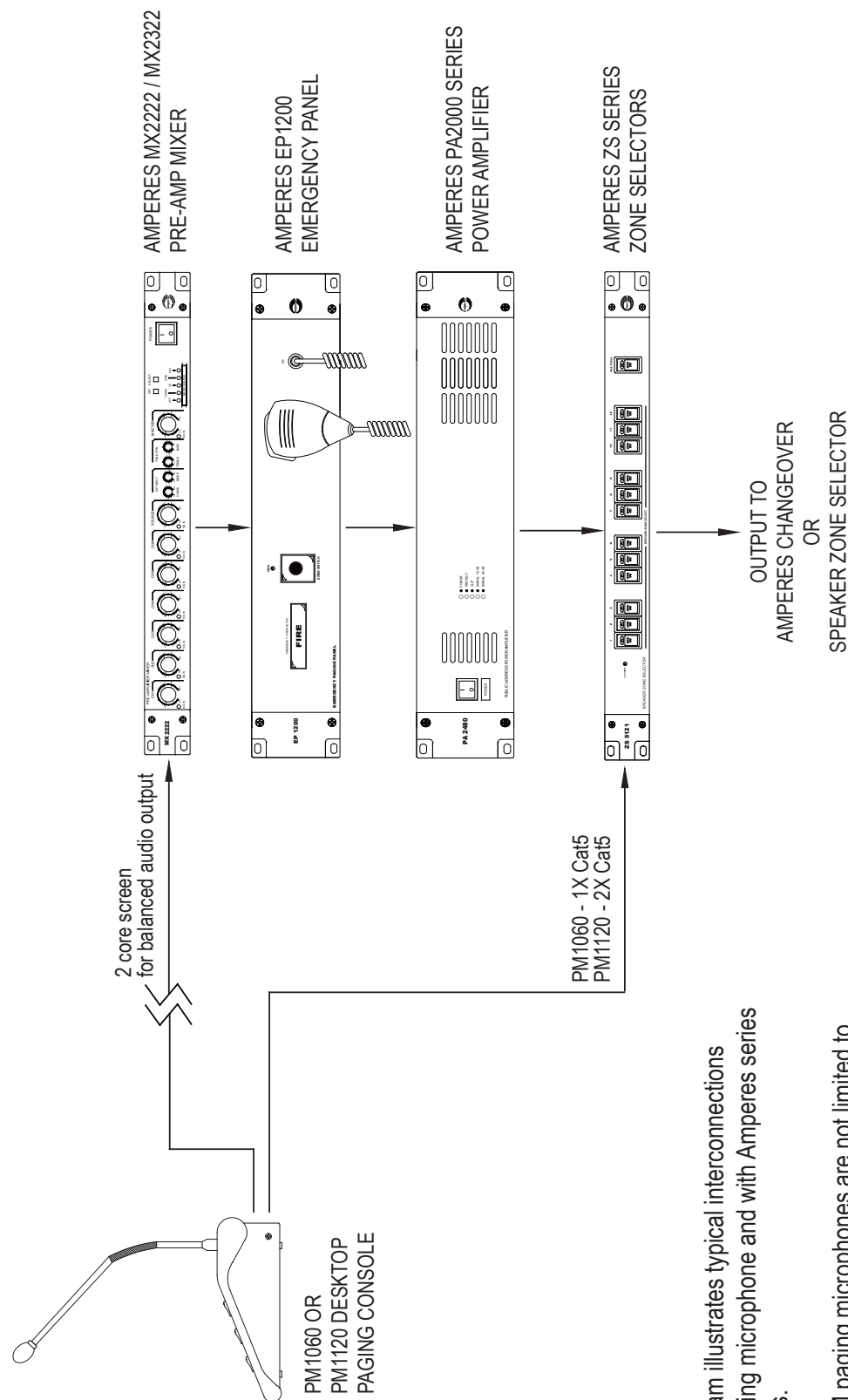


PIN 1 to 6: Z1 - Z6
PIN 7: DC 24V
PIN 8: GND



PIN 1 to 6: Z7 - Z12 (only available on PM1120)
PIN 7: DC 24V
PIN 8: GND

Application Schematic



NOTE:

The above diagram illustrates typical interconnections between PM paging microphone and with Ampere's series of PA equipments.

Application of PM paging microphones are not limited to usage with other Ampere's products only. PM can be used alongside with almost any brand of PA equipments.

Kindly consult us if there is any technical inquiry on the suitability of application.

Operating Sequence

Selecting zone for paging

1. Press required zone button, the zone LED shall lit to indicate a zone has been selected. To select all the zones, just press the ALL CALL button.
2. Press "CHIME / TALK" button to activate paging. The button adjacent red LED shall lit and a preannouncement chime shall be played.
3. When gooseneck mic LED lit, the console is ready for paging.
4. To end paging, press "CHIME / TALK" button again. An ending chime shall be played follow by termination of zone selection. All selected zones LEDs remain lit to allow next recall. User can select to remove a zone by pressing the zone button again.

PM1060/1120 and ZS5061 / 5121 / 5062 / 5122.

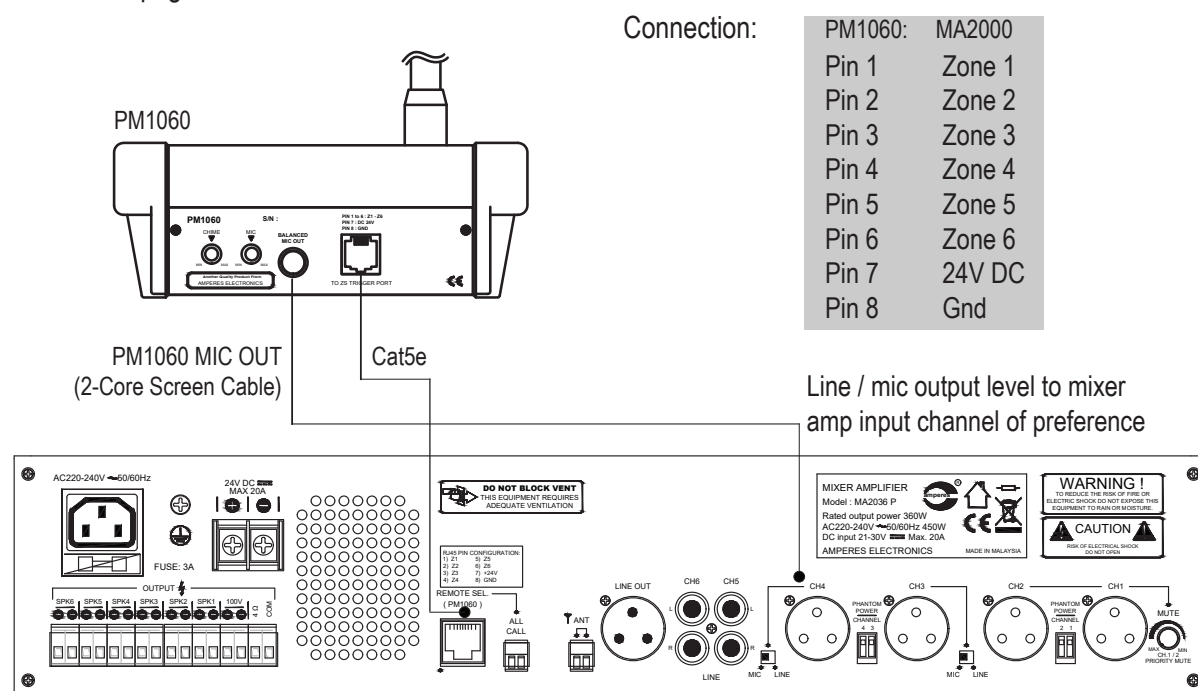
When using PM1060/1120 with Amperes ZS5062/5122, activation of paging console shall automatically mute the BGM broadcast of the zones at the zone selector panel. Upon deactivation of the paging mic, the BGM broadcast shall return to the preselected zones.

PM1060/1120 and ZS5602

Unlike ZS5602/5122, activation of PM1060/1120 shall mute the selected Paging Zones only while other selected BGM zone shall not be interrupted.

Connecting To MA2000 Amplifier

Remote zone selection on MA2000 amplifier can be done using PM1000 Series paging mic. Diagram below illustrate a connection example. Connect PM1060 Pin 1 to Pin 3 to MA2024 SP1 to SP3 respectively. Connect an unused pin, in this case Pin 4 (corresponding to zone 4) to PR (Priority) port of MA2000. With this, activate zone 1 + zone 4 buttons on PM1060 will override MA2000 front panel activated zones and allow PM1060 to page to zone 1.

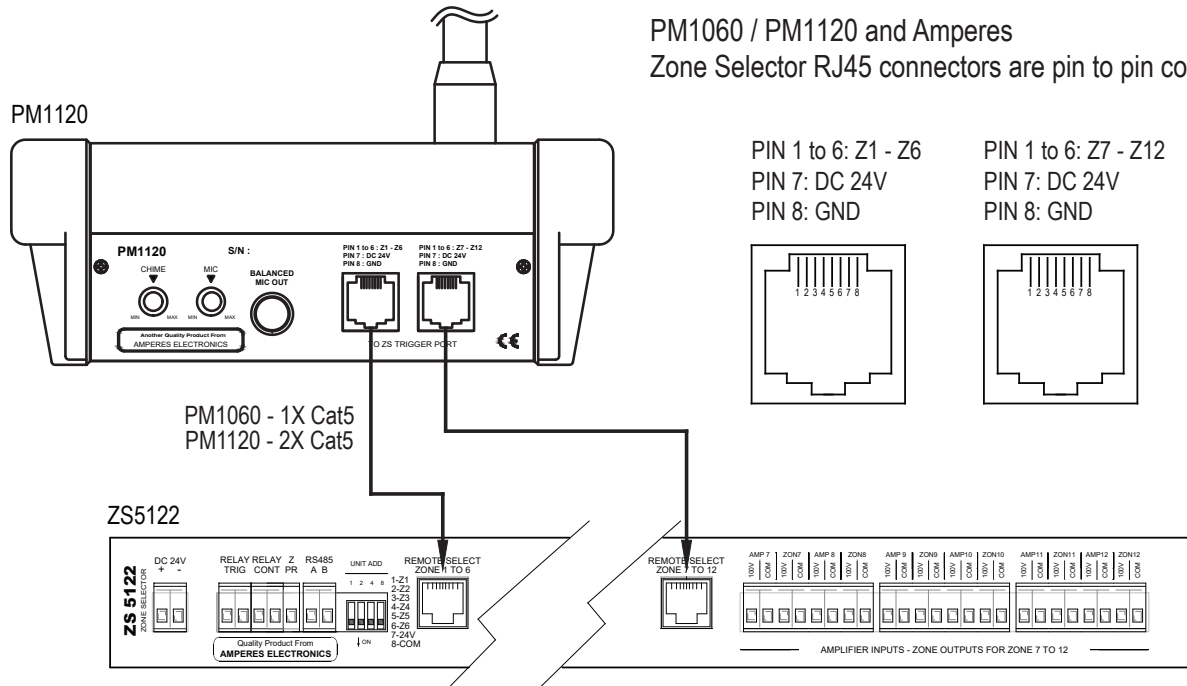


Connecting To Zone Selector

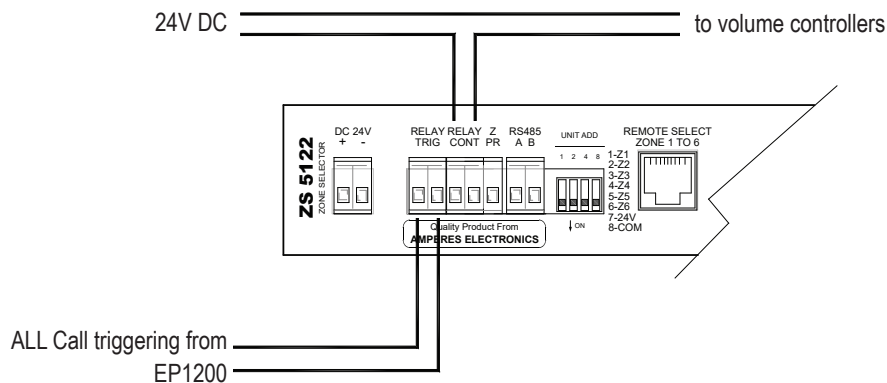
We recommend that the PM1000 Series paging mic is used with Amperes Zone Selector in order to tap the full features available. Other brand of zone selectors can be employed provided that the remote zone selection uses negative signal triggering method.

Diagram below shows connection between PM1120 and ZS5122 zone selector.

Any zones or All Call activation on paging mic shall override ZS5122 front panel selected BGM zones. This however, would not trigger E/M override relay at the zone selector.



All Call paging from the Paging mic would trigger all zone but would not trigger the zone selectors E/M relay. The overriding of volume controllers shall require 24V DC for the activation of their internal relay and this can be done via EP1200.



Summary Of Features

PAGING ZONE CONTROL

Announcement to speaker zone can be selected from the paging console, individually or ALL CALL.

PREANNOUNCEMENT CHIME

Chime up tone is broadcasted prior to announcement. Chime down shall be played prior zone deactivation.

BGM MUTING

When using the paging mic with Amperes series of zone selectors, activation of the paging mic shall automatically mute the BGM zone at the zone panel. The BGM broadcast shall resume to the preselected zone upon mic deactivation. Using the paging mic with ZS5602 shall have the same features but shall not interrupt the BGM zones not selected for paging.

CHIME AND MIC VOLUME CONTROLS

Output level of chime and microphone can be adjusted individually as required.

BALANCED OUTPUT

Balanced line output is the standard feature for all the paging desk, designed for professional application and longer distance audio transmission with minimal noise.

Technical Specifications

	PM1060	PM1120
Power requirement	24V DC 500mA	
Power consumption		
Idle	650mW	
Active	4.5W (All Call)	
Current consumption		
Idle	30mA DC	
Active	180mA DC	
Zone selection	6 zones or 12 zones with ALL CALL	
Microphone	Cardioid Condenser Microphone	
Output impedance	Line: 470 Ohm +/- 10% / Mic: 90k Ohm +/-10%	
Output level	Line 1.2 V / Mic 50mV	
Volume controls	Chime and mic level	
Audio connection	1/4 " stereo phone jack	
Switching connection	RJ45 connector	
Operating distance	300 m (recommended)	
Chime	4-tone up and 4-tone down	
Indicators	Mic ring, zone switch, ALL CALL	
Frequency response	280Hz ~ 7.5 KHz (+/- 3 dB)	
SNR	60 dB	
Gooseneck mic length	370 mm	
Dimensions (W x H x D)	150 x 62 x 186 mm (excluding mic)	
Weight	800 gms	850 gms

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts ; cost and risks of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit; moreover the warranty does not cover any damages which may be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

Disclaimer

Information contained in this manual is subject to change without prior notice and does not represent a commitment on the part of the vendor. AMPERES ELECTRONICS SDN BHD shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

AMPERES ELECTRONICS SDN BHD cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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