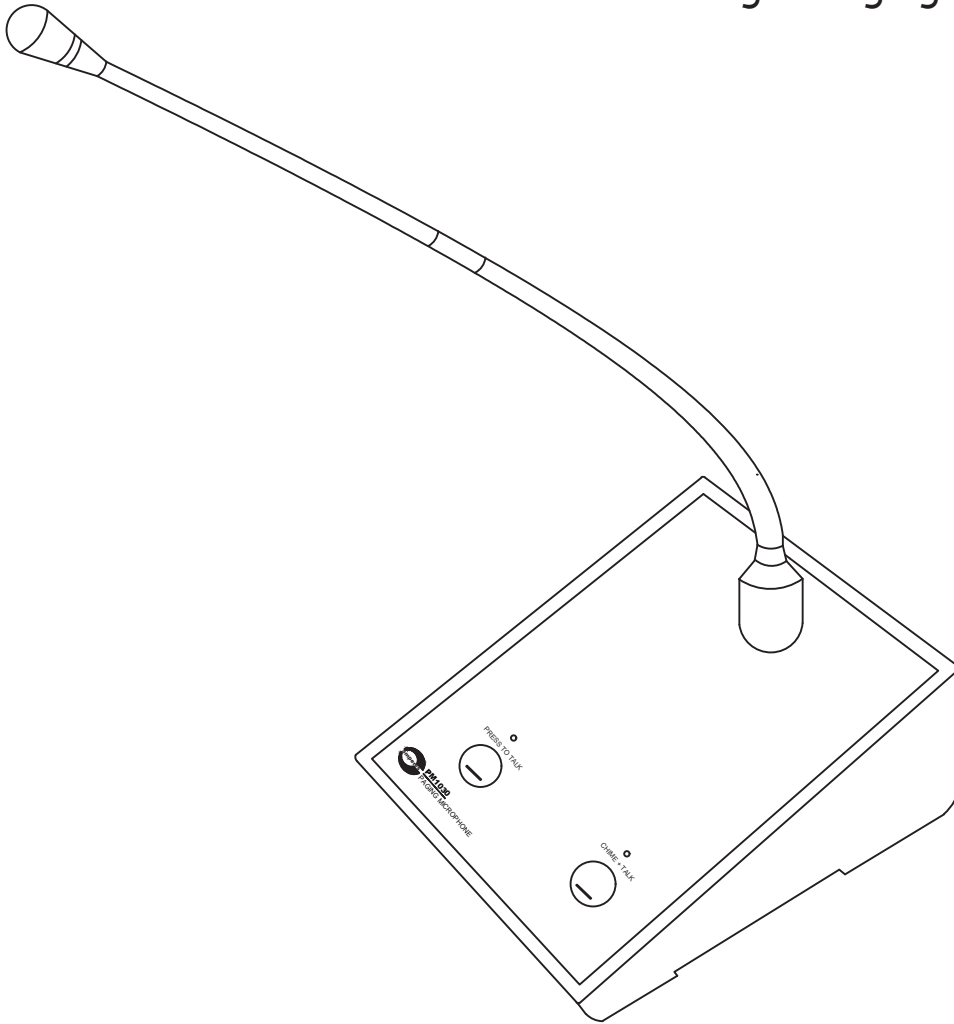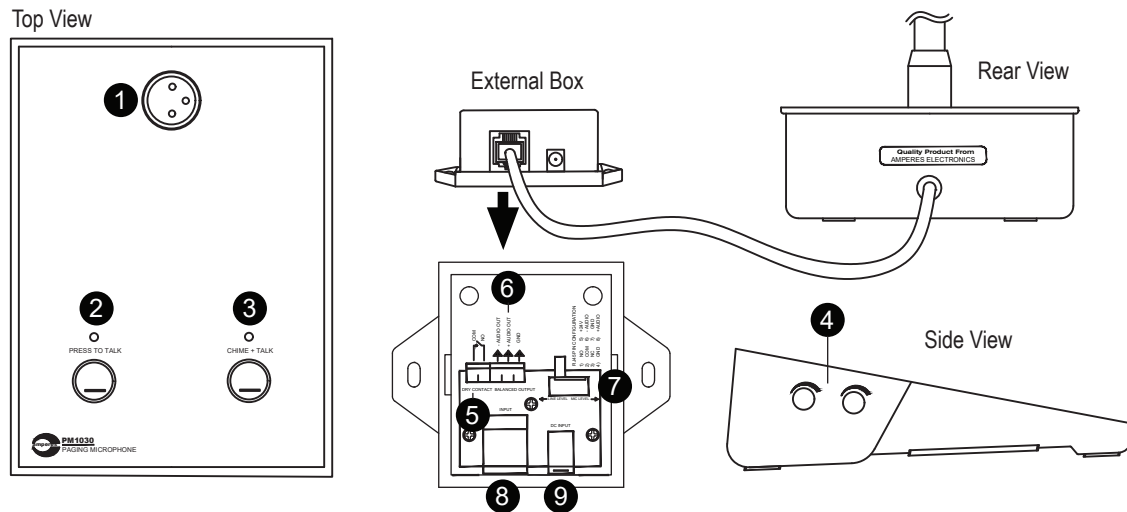# PM1010 / 1030
Analogue Paging Microphone

Thank you for choosing another quality product from Amperes Electronics.

PM1010 and PM1030 are newly designed desktop gooseneck microphones with contemporary outlooks suitable for general purpose paging applications. PM1010 is a basic version with simple press to talk without chime whereas its sibling, PM1030 comes with pre announcement chime, paging contact and chime volume controls, which is designed for commercial applications.

Both models had been tuned to perform better than its predecessors and shall be the right choice for your paging needs.

Top View

External Box

Rear View

Side View

1. **GOOSENECK MICROPHONE CONNECTOR**

   XLR jack for gooseneck mic ; plug the cardioid condenser gooseneck mic to this jack.

2. **TALK SWITCH (for PM1030 ONLY - NOT AVAILABLE IN PM1010)**

   This momentary direct talk switch activates the mic without pre-announcement chime.

3. **CHIME AND TALK SWITCH (PM1030) / TALK SWITCH (PM1010)**

   A 4 tone chime shall be broadcasted when the switch is pressed once and a downward 4 tone chime follows when the unit is switched off (PM1030 only). For PM1010, there is no chime output and once ON, the mic shall be activated immediately.

4. **CHIME & VOLUME CONTROLS (PM1030)**

   Individual control for chime and mic output level to suit the installation environment. For PM1010, only mic volume control is available.

5. **DRY CONTACT (PM1030 ONLY)**

   When mic is active, a dry contact is available and is useful for various applications, such as to trigger emergency ALL CALL.

6. **AUDIO OUTPUT**

   Output is balanced with either line or mic level which can be selected from this switch (item 7)

7. **MIC / LINE SWITCH**

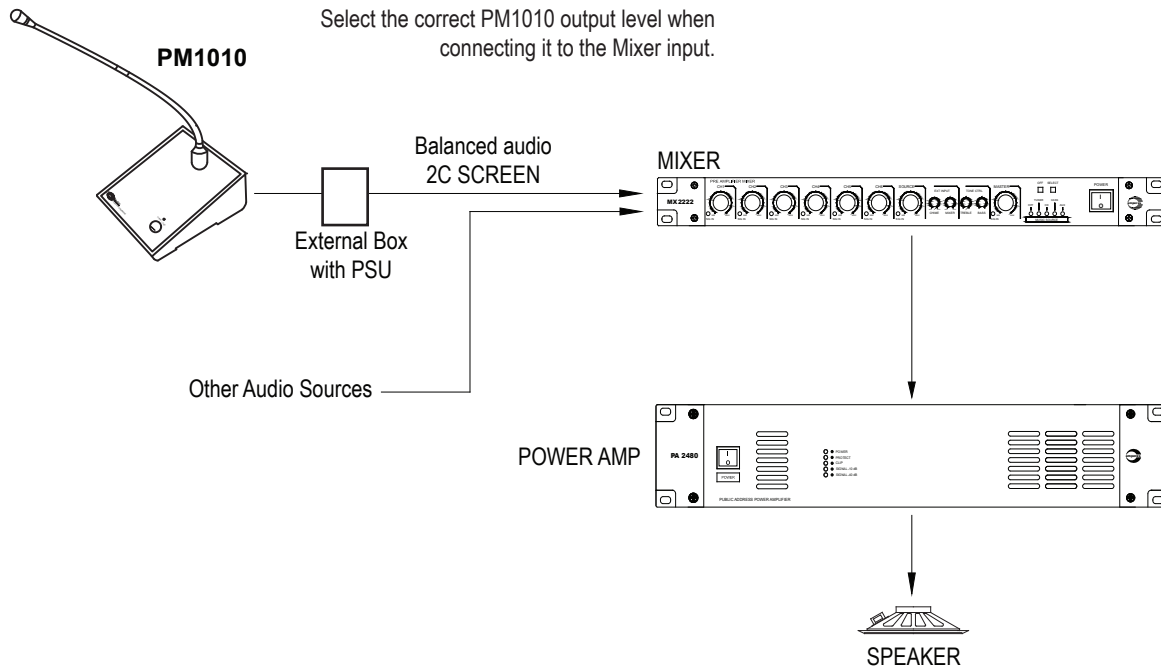   Output level from the unit can be preselected with either mic or line level.

8. **RJ45 PORT**

   To connect PM1030 / PM1010 to External Box. Power and audio output shall be linked with RJ45 cable through this port.
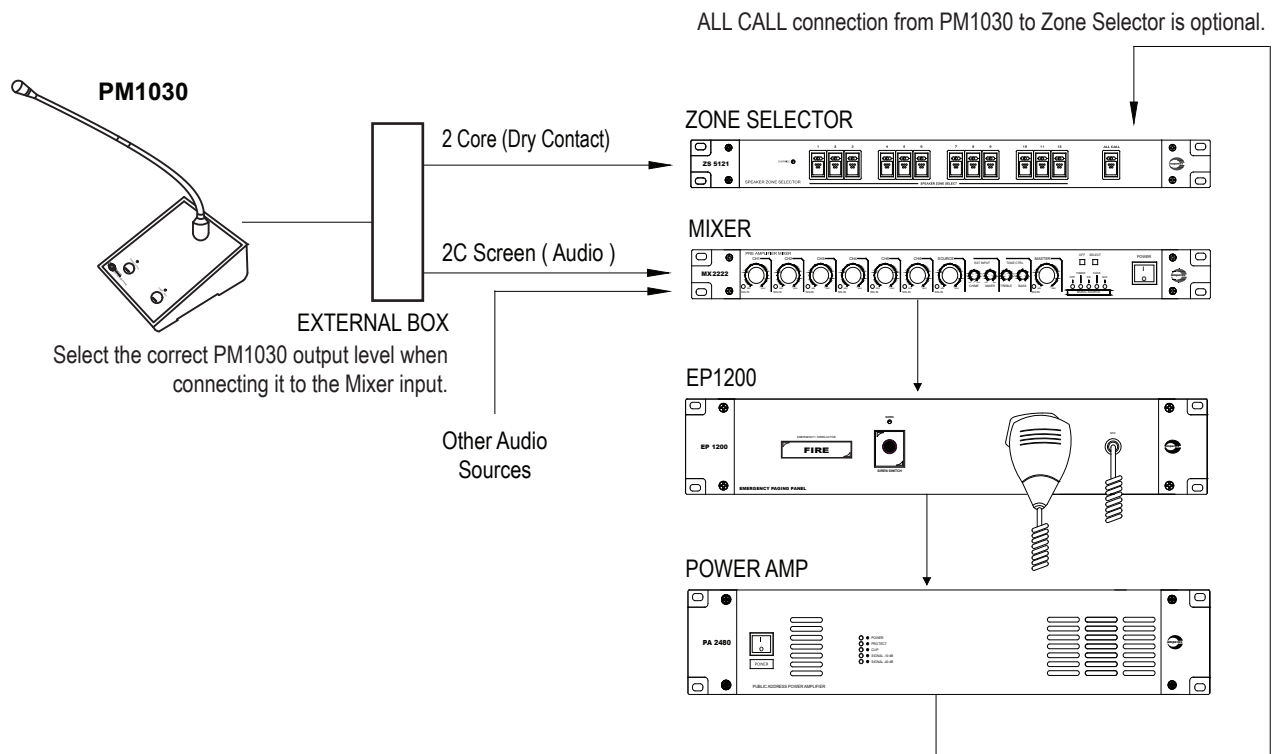
9. **EXTERNAL BOX POWER INPUT**

   The unit operates using 24V DC supply. A power adaptor is provided in the package.

Application Schematic PM1010

PM1010

Select the correct PM1010 output level when connecting it to the Mixer input.

Balanced audio
2C SCREEN

MIXER

External Box
with PSU

Other Audio Sources

POWER AMP

SPEAKER

Application Schematic PM1030

ALL CALL connection from PM1030 to Zone Selector is optional.

PM1030

2 Core (Dry Contact)

ZONE SELECTOR

MIXER

2C Screen (Audio)

EXTERNAL BOX

Select the correct PM1030 output level when connecting it to the Mixer input.

Other Audio
Sources

EP1200

FIRE

POWER AMP

Above illustrations shows connectivity of PM1030 to system with ALL CALL activation. Refer Page 4 on how to connect to Zone Selector.

Connecting External Box to Zone Selector

PM1030 / PM1010 External Box

To Pre-amplifier mixer / mixing amplifier or directly to amplifiers with line level output

Switch to select the required output level

24V DC

to VC / Patch overriding

ZS5122

24V DC via power adaptor or from Main Equipment rack

Optional connection for triggering ALL CALL

Relay Trigger at ZS Zone Selector shall activate ALL CALL as well as a dry contact.
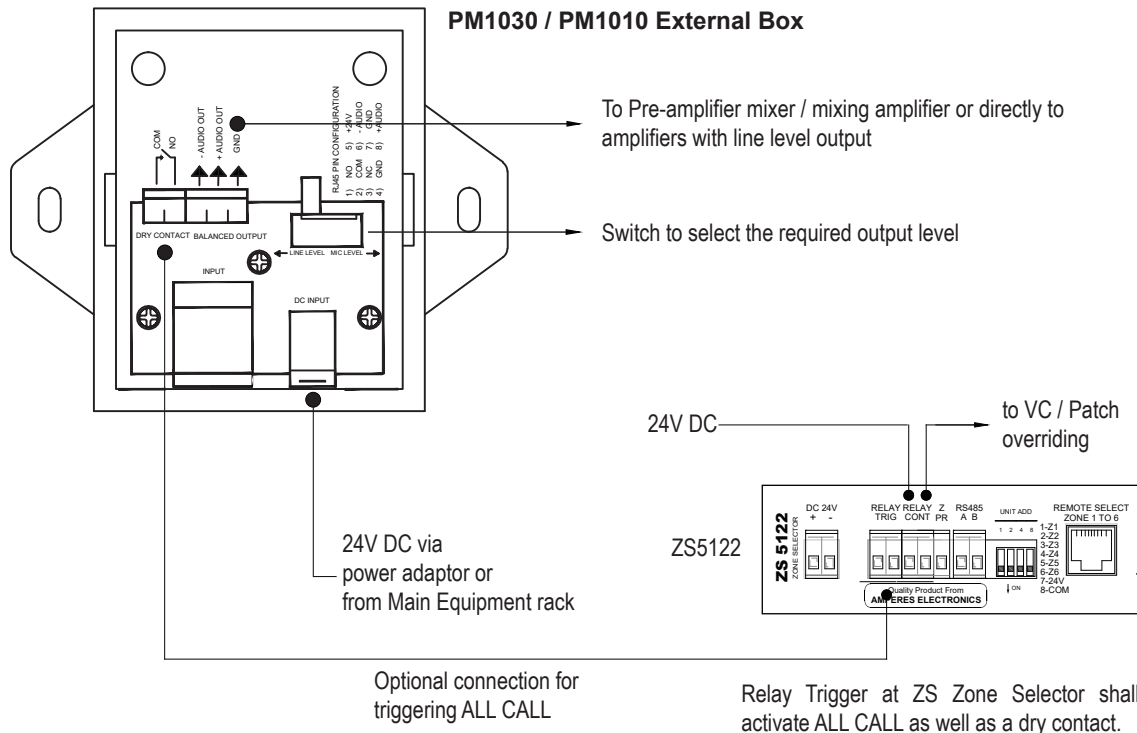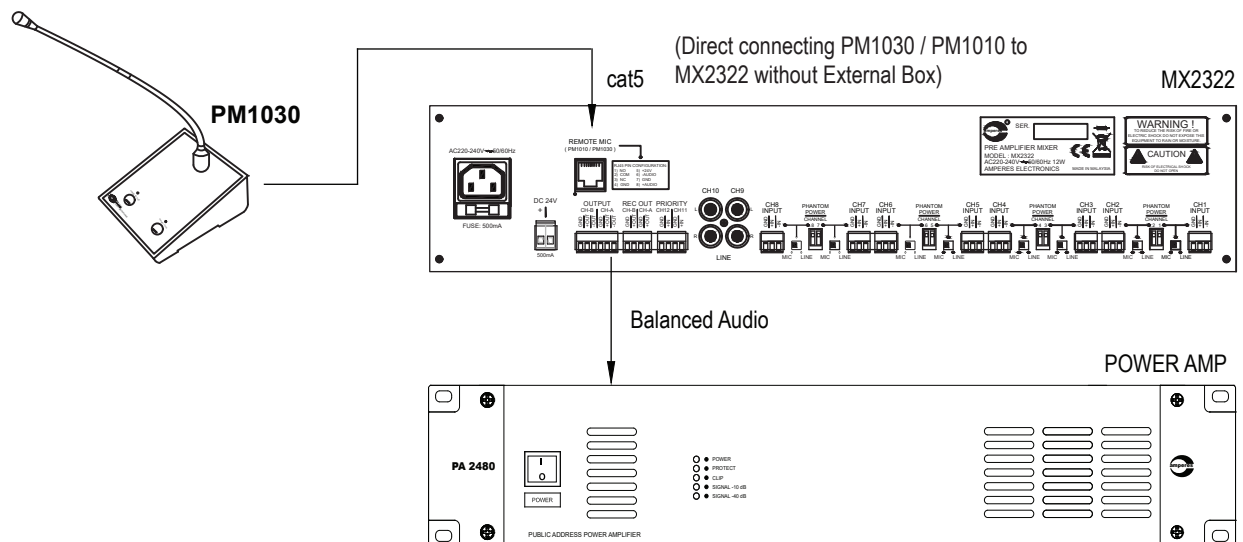
Diagram above shows connection of PM1030 and ZS Zone Selectors ie. External Connector dry contact terminals to Zone Selector's Relay Trigger terminals. Activation of PM1030 shall trigger All Call at zone selector as well as providing 24V DC output to override external volume controllers.
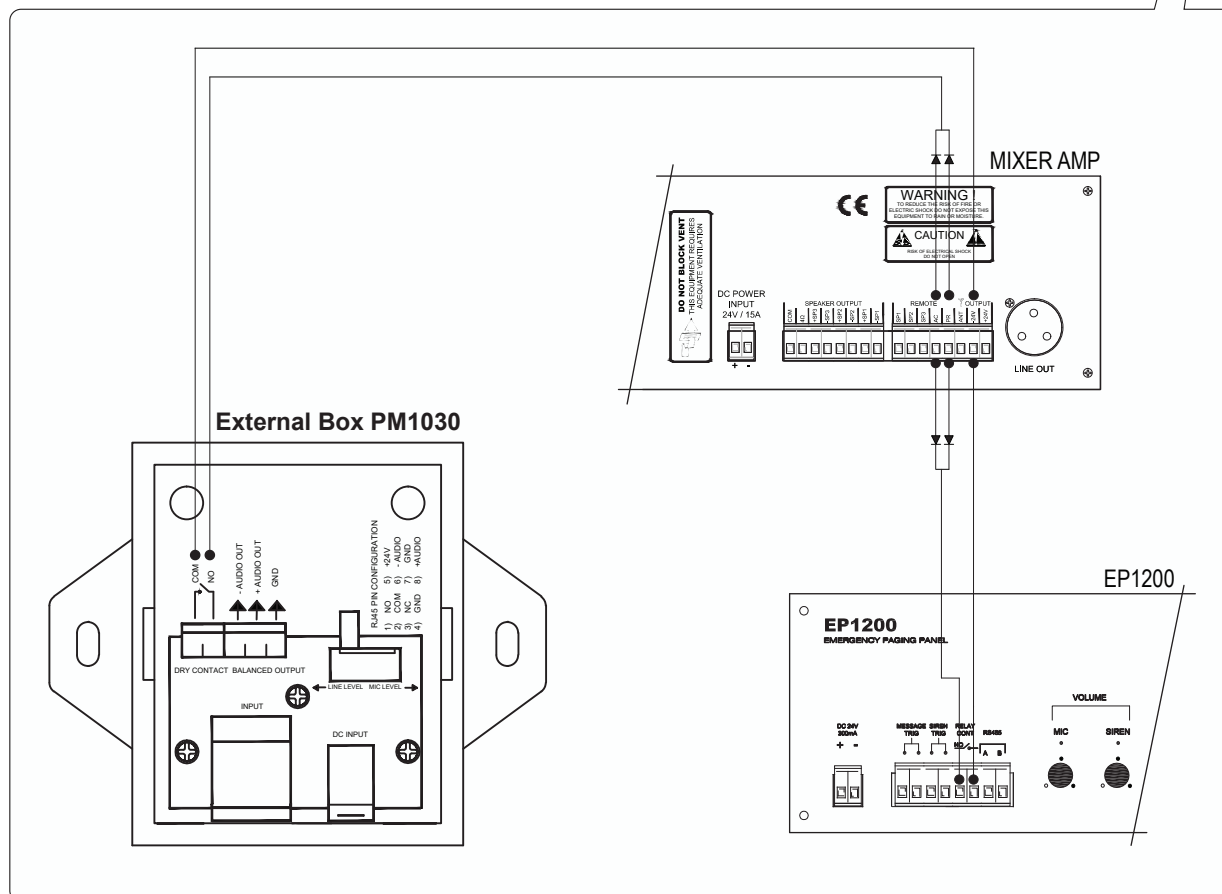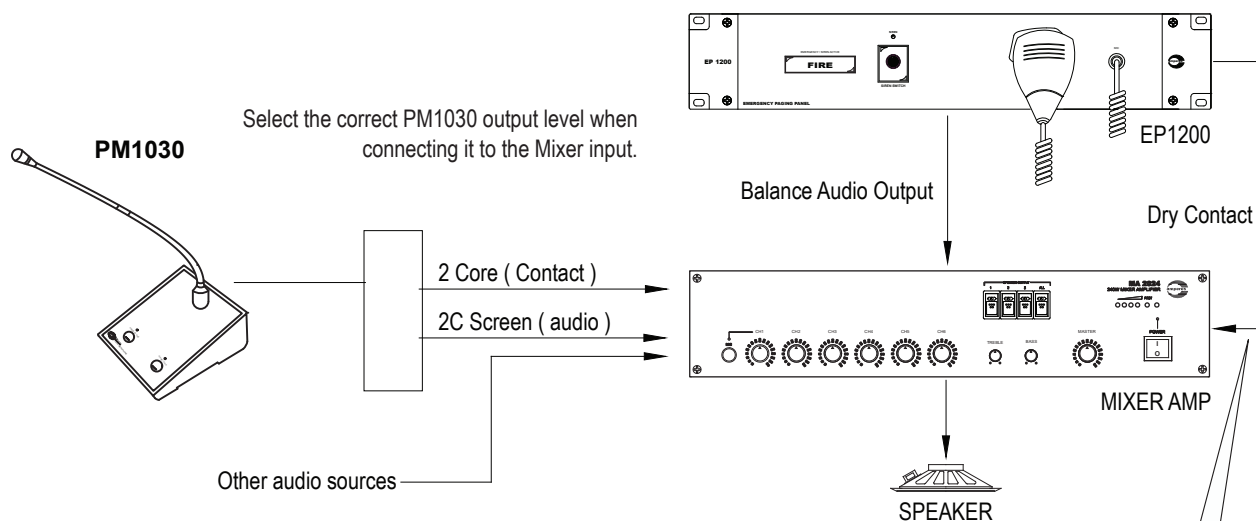
Connecting to MX2322 Mixer Pre-Amplifier

PM1030

cat5

(Direct connecting PM1030 / PM1010 to MX2322 without External Box)

MX2322

Balanced Audio

POWER AMP

PM1030 can be connected to MX2322 mixer amplifier Remote Mic port without the External Box. With this connection, PM1030 shall has the highest priority over other sources. Take note that with above connection, MX2322 volume control does not amplify / attenuate the mic audio. The mic volume level is fully controlled by the mic volume knob.
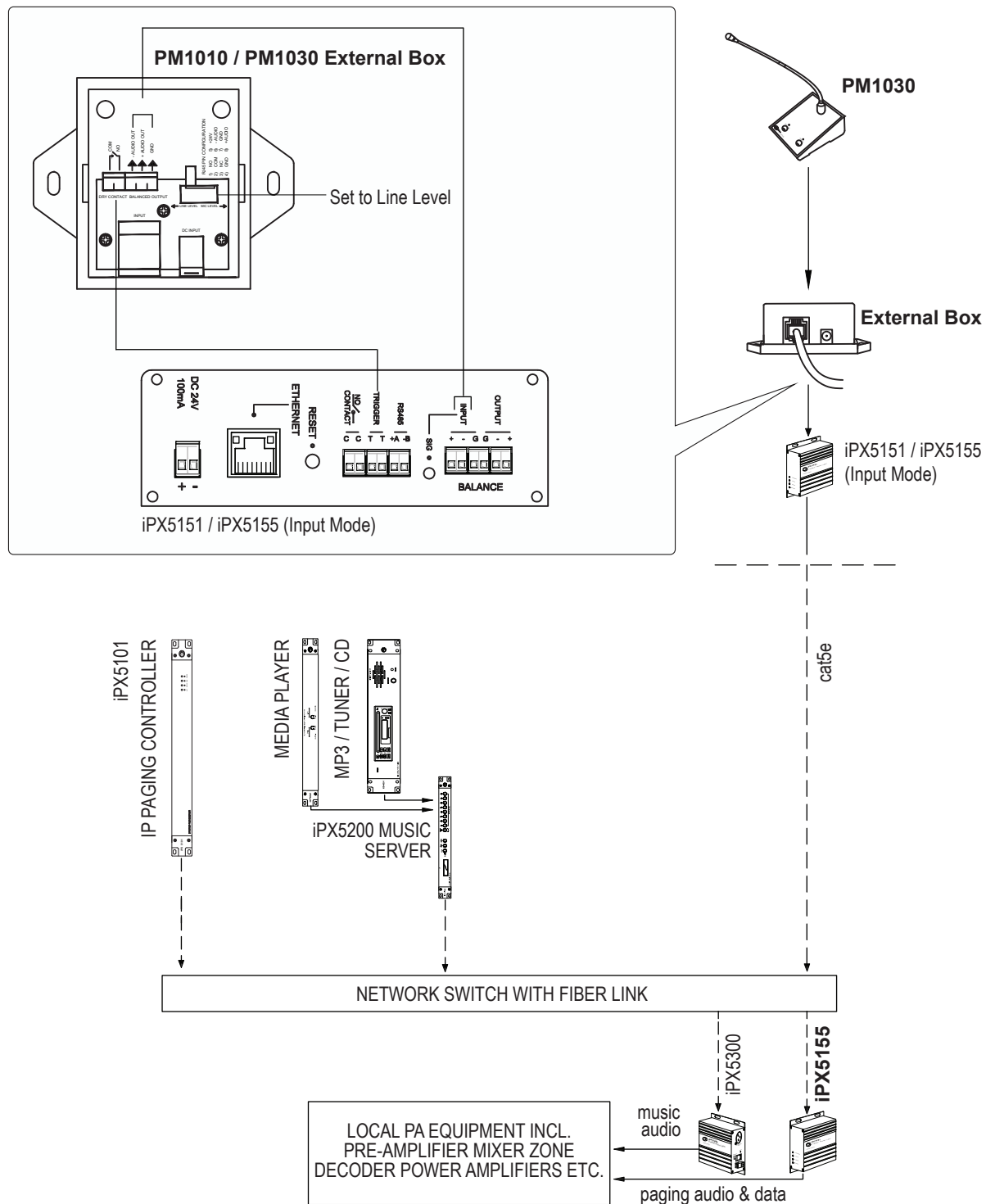
Connecting To MA2000 Series Mixer Amplifier

PM1030

Select the correct PM1030 output level when connecting it to the Mixer input.

EP1200

2 Core (Contact)

2C Screen (audio)

Balance Audio Output

Dry Contact

MIXER AMP

Other audio sources

SPEAKER

MIXER AMP

External Box PM1030

EP1200

PM1030 Dry Contact to connect to MA2000 AC & PR for ALL CALL.

When there are more than one dry contact, a pair of diodes (e.g. 1N4001) are to be used as shown in order to make ALL CALL at mixing amplifier (MA Series). In this case, PM1030 and EP1200 are the triggering sources, connecting to MA2000 AC (All Call) and PR (Priority) terminals.

Connecting to IP Based System

PM1010 / PM1030 External Box

PM1030

Set to Line Level

External Box

iPX5151 / iPX5155
(Input Mode)

iPX5151 / iPX5155 (Input Mode)

iPX5101

IP PAGING CONTROLLER

MEDIA PLAYER

MP3 / TUNER / CD

iPX5200 MUSIC
SERVER

cat5e

NETWORK SWITCH WITH FIBER LINK

iPX5300

iPX5155

LOCAL PA EQUIPMENT INCL.
PRE-AMPLIFIER MIXER ZONE
DECODER POWER AMPLIFIERS ETC.

music
audio

paging audio & data

Note:

By working with iPX5151 / iPX5155 Paging Client, PM1030 can broadcast paging via Ethernet to a remote location.
When activate paging, PM1030 utilises its Dry Contact port to trigger iPX5151 / iPX5155 Trigger port to allow the paging
client accept the mic audio and have the paging broadcasted to remote PA system.

Technical Specification

	PM1010	PM1030
Operating voltage	24V DC	
Power consumption	0.8W	1.3W
Indicators	Talk, Mic ring	Press to Talk Chime + Talk, Mic ring
Microphone	Cardioid condenser microphone	
Dry contact	-	3A max
Audio		
Mic sensitivity	-72 dB Omni directional	
Output impedance	Line level: 300 ohm Mic level: 50 ohm	
Frequency response	200Hz - 11kHz (± 3 dB)	
S/N ratio	80 dB ± 3 dB	
Output controls	Mic	Chime, Mic
Audio output (max)	Line output; 1.2V rms balanced Mic output: 70mV rms balanced	
Communication		
Cable	2m RJ45 connector to external box	
Output connection	5 way mini connector at external box	
Gooseneck mic length	370 mm	
Dimensions (W x H x D)	160 x 50 x 120 mm (excluding mic)	
Weight	380 g	400 g

Note:

The above specifications are correct at time of printing but subjected to changes without prior notice due to product improvements.

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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AMPERES ELECTRONICS SDN BHD
MADE IN MALAYSIA
PUBLISHED : MAY 2021