RP1104

Matrix Remote Zone Controller

MATRIX REMOTE PANEL

IN   VOL%

5   2
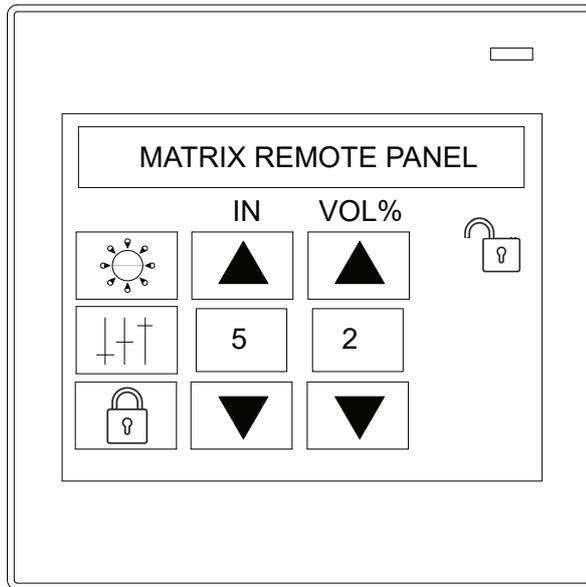
improved version

Thank you for choosing another quality product from Amperes Electronics.

RP1104 has been improved further, thanks to the valuable feedbacks and new features have been added to enhance the product in terms of better user experience and security controls.
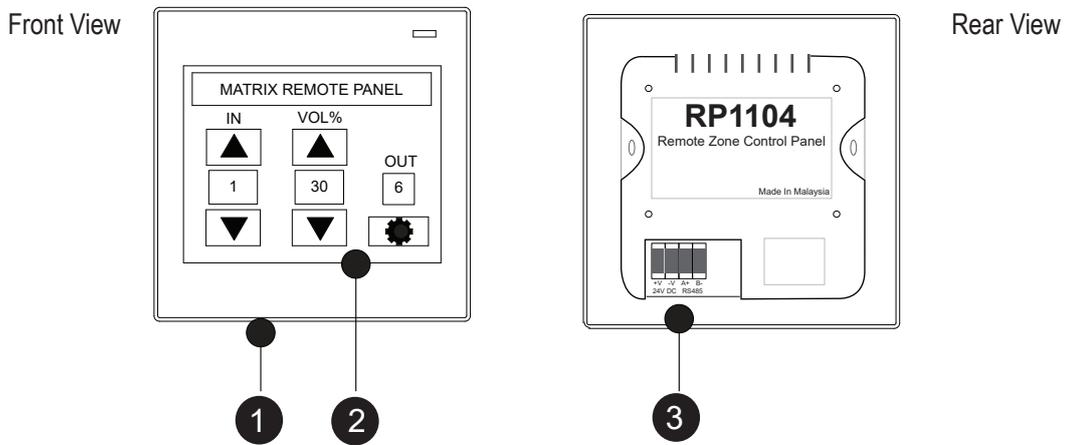
RP1104 is a remote zone control panel which is to be located away from matrix controller for easy control of music source, tone and volume at particular zone. It is intended to be used with MxP2288 matrix controller for a full or partial matrix PA setup.

Amperes Matrix System is most suitable for installations in club houses, hotels, restaurants, etc., which each zone shall have flexibility of selecting required music and volume.

This version has incorporated user password access with 3 level of security, User, service and admin levels. Installer shall be able to upload its own logo to provide a distinction to its area of installation.

Parts Identification

Front View

MATRIX REMOTE PANEL

IN | VOL% | OUT

1 | 30 | 6

Rear View

RP1104
Remote Zone Control Panel
Made In Malaysia

+V -V A+ B-
24V DC   RS485

1 2 3

1. **SD CARD SLOT**

   SD card slot to upload front welcome screen, ie. To insert own logo to the front page.
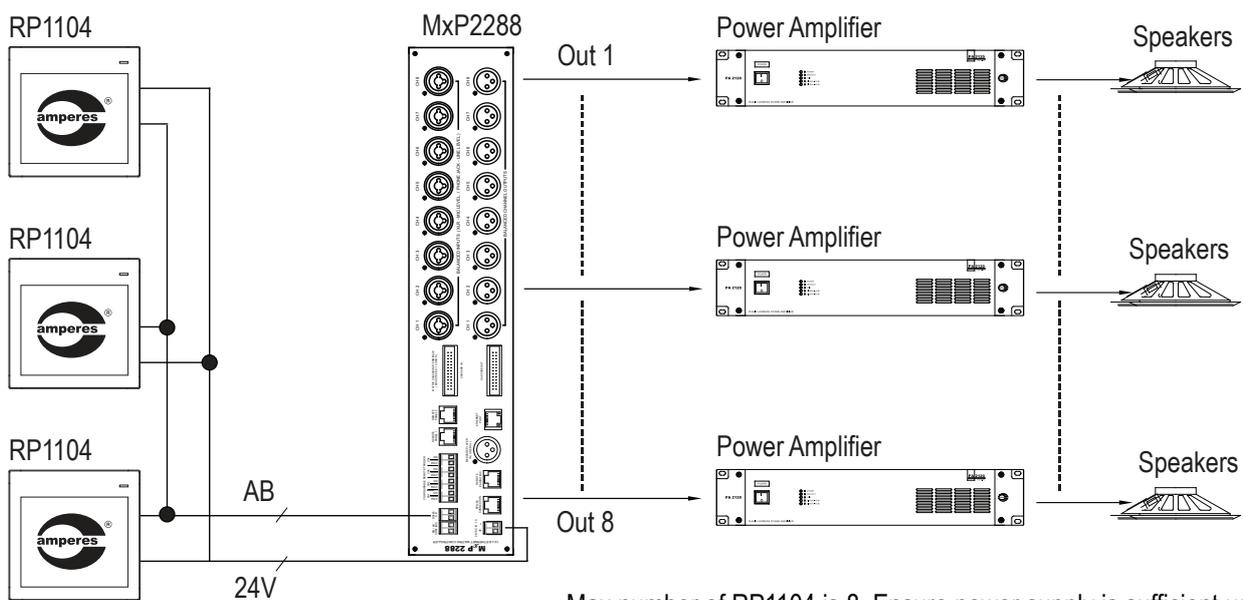
2. **TOUCH SCREEN PANEL**

   Resistive touch screen panel.

3. **POWER AND UART (RS485) PORT**

   24V DC power input and RS485 data connectors.

General Schematic

RP1104

RP1104

RP1104

MxP2288

Out 1

Power Amplifier

Speakers

Power Amplifier

Speakers
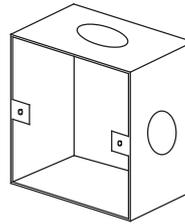
Power Amplifier

Speakers

AB

24V

Out 8

Max number of RP1104 is 8. Ensure power supply is sufficient using external PSU if required for more RP1104 to be installed.

Guide to Installation

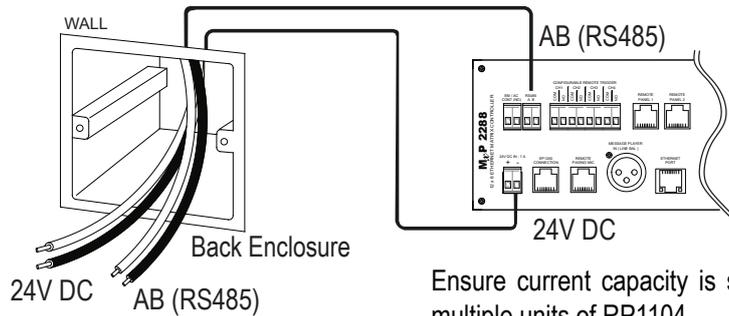**1 : Cut the wall hole or using Back Enclosure**
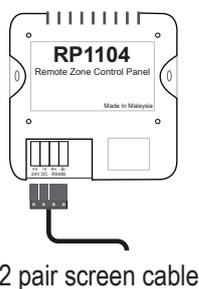
72 mm

72 mm
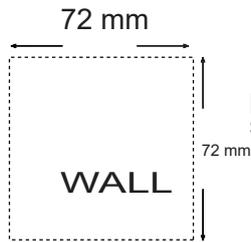
WALL

RP1104 can be installed directly to the partitioned wall, with the hole size as shown.

If it is to be installed at brick wall, use the specially designed back enclosure. Surface or concealed versions are available.

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2 : Cable Connection -   Connect the cable to the jack located at the rear of the controller

RP1104
Remote Zone Control Panel
Made In Malaysia

2 pair screen cable

WALL

Back Enclosure

24V DC

AB (RS485)

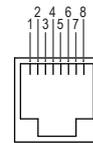AB (RS485)

24V DC

MxP 2288

Ensure current capacity is sufficient to drive multiple units of RP1104

Alternatively, RP1104 can be connected to the dedicated RJ45 ports at MxP2288. The configurations of the pins and cable colours are as illustrated.

IMPORTANT NOTES :
RP1104 connected to the respective controller will only able to control parameters at that controller.

If multiple controllers are installed, plan the cabling works to ensure the right RP1104 is to be connected to the correct MxP2288.

RJ45 Cable Termination:
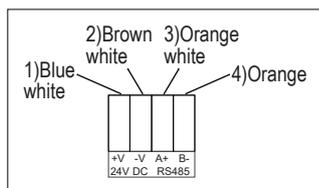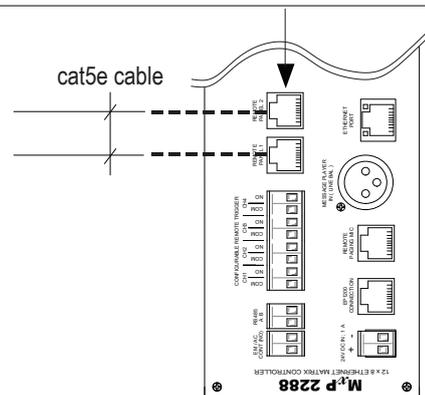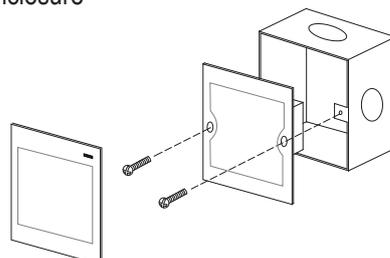1- Orange white *(Data A)
2- Orange *(Data B)
3- Green white
4- Blue
5- Blue white *(24V+)
6- Green
7- Brown white *(24V-)
8- Brown

2 4 6 8
1 3 5 7

1)Blue white
2)Brown white
3)Orange white
4)Orange

+V -V   A+ B-
24V DC   RS485

Cable Connection to RP1104 panel connection

Maximum 3 panel per port (< 50m)

cat5e cable

ETHERNET

MxP 2288
12 x 8 ETHERNET MATRIX CONTROLLER

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3 : Install RP1104 to Back Enclosure

Back enclosure - surface or wall concealed

Setting the Modes of Operation

Depending on the place of application, there are 2 modes of operating the panel. This can be set prior to final installation as reset of power is required for the mode to take effect. Setting of the mode is quite simply and would only require setting of passwords by the installer.

MODE 1

Pin controlled for User, Service and Installer

In this mode, access is through password and is restricted to :
User - Change volume
Service - Change input source, volume, tone controls and screen brightness
Installer - All above and alter output channel, address and change passwords for both User and Service.

This mode is used in places such as hotel ballrooms, club house, etc in which public has access to the panel and to restrict any member of staff from meddling with the settings, but would only be able to adjust the volume accordingly.

MODE 2

Pin controlled for Service and Installer

In this mode, access is through password and is restricted to :
User - Change volume, tone controls, input and screen brightness
Installer - All above and alter output channel, address and change passwords for both User and Service.
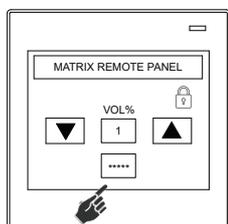
This mode is used in private places such as private club, residence etc in which public has limited access to the panel.

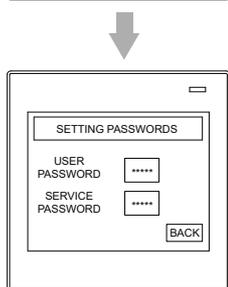
MODE 1

GUIDE TO SET MODE 1

USER SERVICE INSTALLER

To prepare for Mode 1, installer need to set passwords for both User and Service levels, with following steps.

Press the password button (*****) and enter the default
Installer password : 18198

Enter the 4 digit passwords for
 - User Level : enter 4 digits from 0001 to 9999
 - Service Level : enter 4 digits from 0001 to 9999

The previously set password will be overrided whenever a new password is entered. To change password, only master user is allowed to set both the passwords.

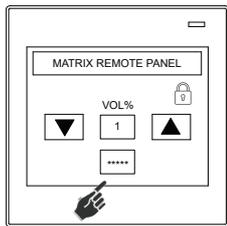The mode will automatically set whenever both passwords are entered.
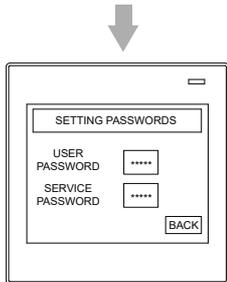
Setting the Modes of Operation

MODE 2

To prepare for Mode 2, installer need to set passwords for both User and Service levels, with following steps.

GUIDE TO SET MODE 2


USER INSTALLER

Press the password button (*****)
and enter the default Installer
password : 18198

Enter the 4 digit passwords for
 - User Level (Default is 1111) : Enter the password from "0001" to "9999".
 - Service Level (Default is 2222) : Enter password "0000"

The previously set password shall be overrided whenever a new password is entered. To change password, only master user is allowed to set both the passwords.

The mode will automatically set whenever both passwords are entered.
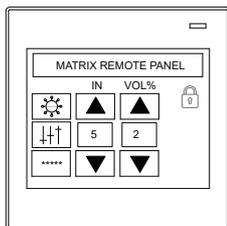
This will be the starting page (User) whenever the screen is activated.
Enter the User password which will be able to control input source, volume, brightness and tone controls.

If it is required to enter the panel without password everytime it is touched, set both passwords for User and Service to "0000".
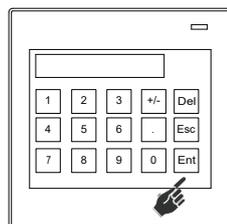
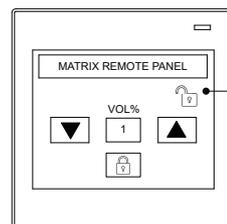# Operating the Unit

ADJUSTING OUTPUT VOLUME (Mode 1 only)

For Mode 1 setting, this shall be the starting screen when the device waken after the logo. The user shall only be able to control the output volume.
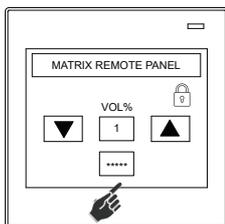
unlock symbol

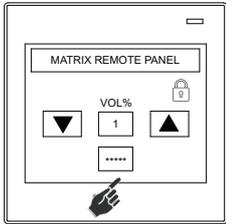Press the password button

Key in the User password and press Enter

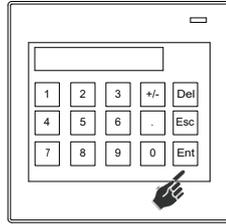Volume can now be adjusted with unlocked symbol shown

Operating the Unit

**SELECT AUDIO SOURCE,
ADJUST VOLUME, TONE
CHANGE BRIGHTNESS
(For Service Level user only)**

These settings for Mode 2 allows the person to change the audio source of that particular zone, adjusting the volume and brightness.
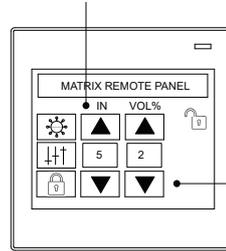
input source selection

adjustment for volume

Press the password button

Key in the Service level password and press Enter
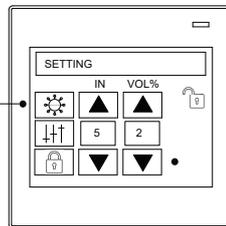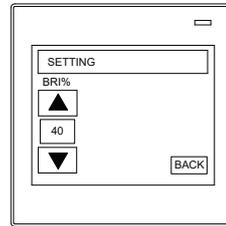
Volume can now be adjusted with unlocked symbol shown

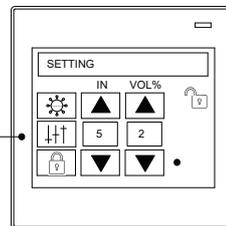adjustment for touch panel brightness

Press this button to adjust screen brightness in the service level screen.

Use the Up and Down arrows to adjust the brightness.

adjustment for bass, treble and channel volume

Press this button to adjust the tones and volume in the service level screen.
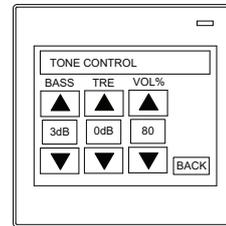
Use the Up and Down arrows to adjust the level of bass, treble and volume.

**CHANGE ADDRESS (OUTPUT CHANNEL) OF PANEL
(For Installer Level user only)**

Only the installer is allowed to change the output of the panel of which the unit is installed. This is to avoid unauthorized access of the panel to meddle with the zone settings of other area. Example : The panel is intended to control output zone 1 only.
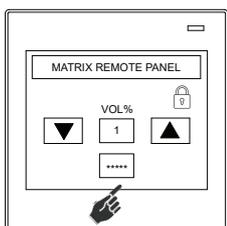
Press the password button
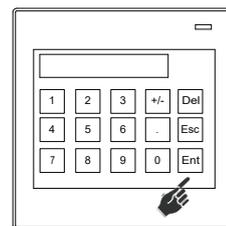
Key in the Installer password and press Enter

At this page, press "Back"

Operating the Unit (Con't)

button to enter setting

Press this button to enter address setting and output channel.

Change the matrix controller output channel in relation to the panel.

output channel of Matrixmix address (Unused)

OUTPUT SETTING

The output refers to the channel output (zone output) of the controller. As each controller has 8 outputs, this number is limited from 1 to 8.

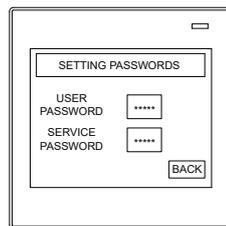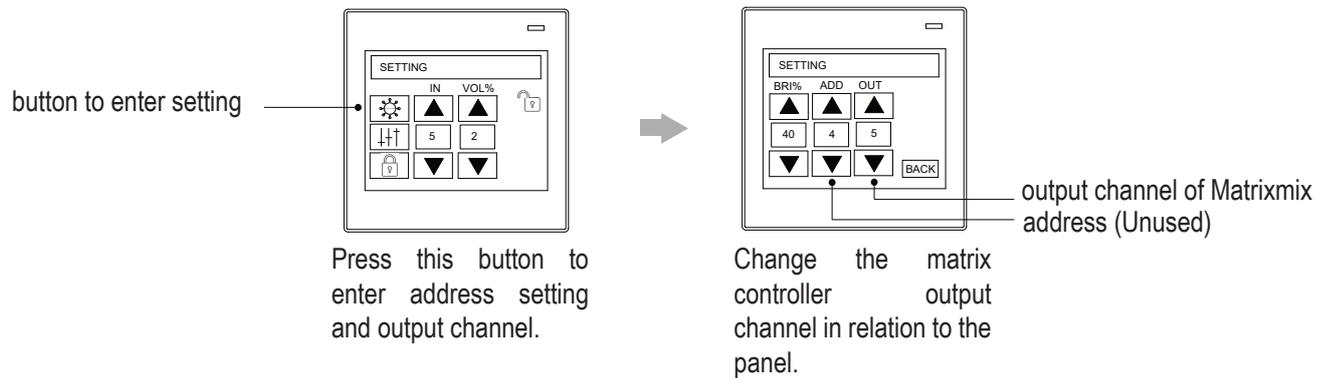Example : If this panel is to connect to matrix controller 3, with output 3, set OUT to 3.

ADDRESS SETTING

This feature is reserved for future application.

Technical Specification

Power source	24V DC via MxP2288
Power consumption	100 mA
LCD panel	3.5" resistive touch screen
Communication	RS485 ; 19.2 Kbps
Controls	Volume / BGM source / tone controls / channel select
Cabling	Cat 5e / 6
Distance	Up to 500m
Dimensions (WxHxD)	86 x 86 x 40 mm
Color	White
Weight	100 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 authorized service centres may be asked by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor. 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 risk 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, negligence in application as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adapter 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 cause to the people and things during the use of the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or identification labels applied to the unit or any other modifications to the physical unit other than its intended usage.

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.

The purchaser is deemed to agree to the above warranty conditions once the product packaging is unpacked., Otherwise the product shall be returned to the seller in proper original condition.

Disclaimer

Information contained in this manual is subjected 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 of this product to be carried out by Amperes Electronics or its authorized service agents.

Amperes products must only be used for the purpose they were intended by the manufacturer and in conjunction with this operation 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.