



INSTRUCTION MANUAL

RP1106

MM8804 Touch Screen Remote Control Panel



Thank you for choosing another quality product from Amperes Electronics

Product in Summary

RP1106 is a dedicated Remote Control Panel, designed specially for Amperes MM8804 Matrix Controller. It is suitable for installation in club houses, hotel, restaurants, etc., making it easy to control source and volume without having to change the setting at main rack.

Each MM8804 controller can have up to 4 units of RP1106, power up by the controller itself and wired through Cat6 cable. Individually run or looping for up to 4 devices for the convenience of cabling works.

RP1106 is designed with multiple access level to prevent unnecessary meddling with the configuration. User level access will have limited controls such as volume setting and choosing input channels. Admin level access has highest priority and will be able to change any configurations such as passwords, equalizer, delay, etc.

RP1106 will definitely be a device to uplift the image of your venue with its vivid colour LED panel and customised logo for your esteemed place.



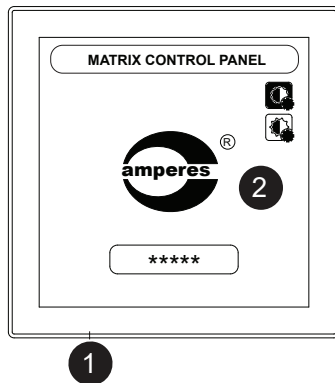
Scan to view catalogue and latest updates
Ver 1 / 0825

In our support towards conservation of environment, we will no longer print manuals to be accompanied with each product. Please view through web browser and print them only when necessary.

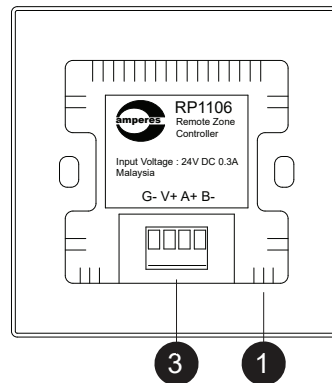


Parts Identification

Front View



Rear View



1. SD CARD SLOT

Insert SD card to the slot to change welcome screen such as inserting own logo at the front page. Refer to section : " Change logo at front screen "

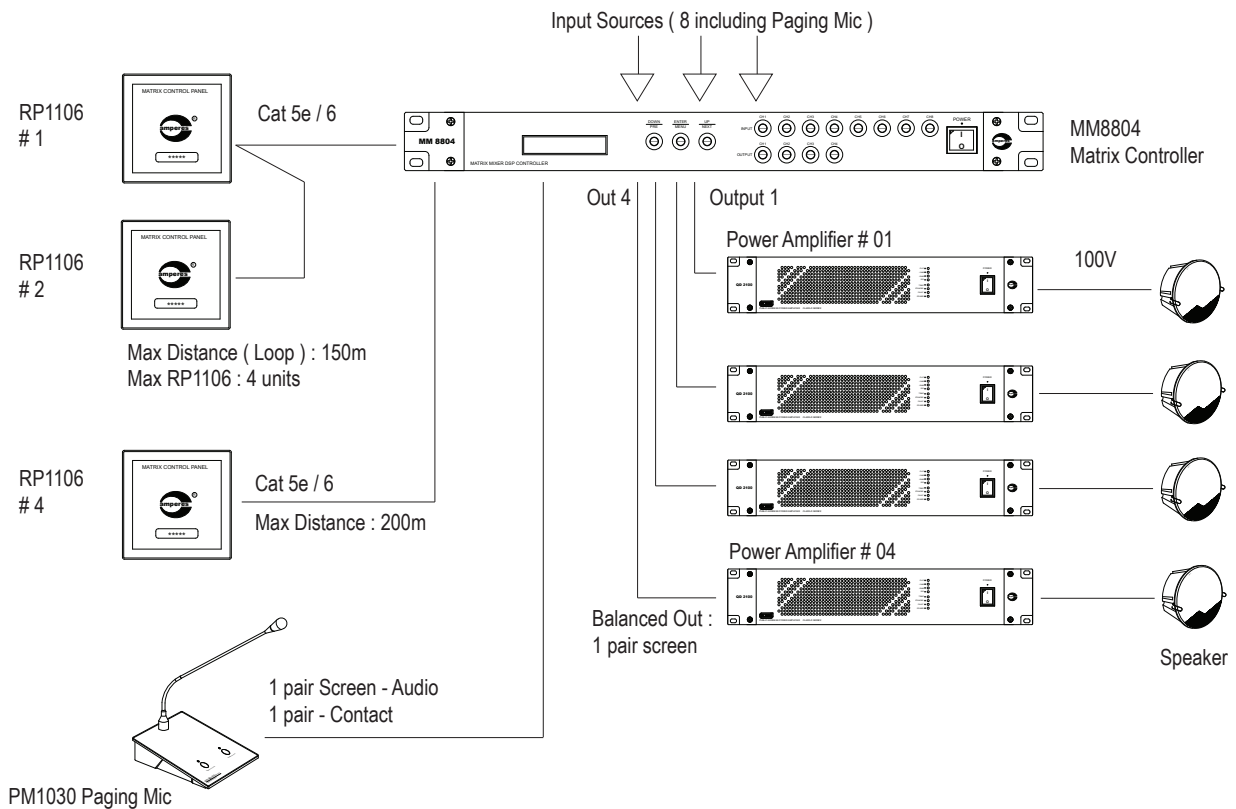
2. TOUCH SCREEN PANEL

The touch screen is resistive type.

3. POWER AND RS485 DATA PORT

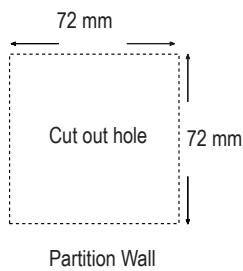
24V DC power input and data connection port, which connect directly to the Matrix Controller.

General Schematic

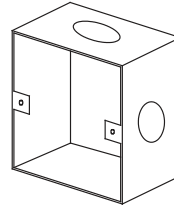


Guide to Installation

1. WALL INSTALLATION / BACK ENCLOSURE



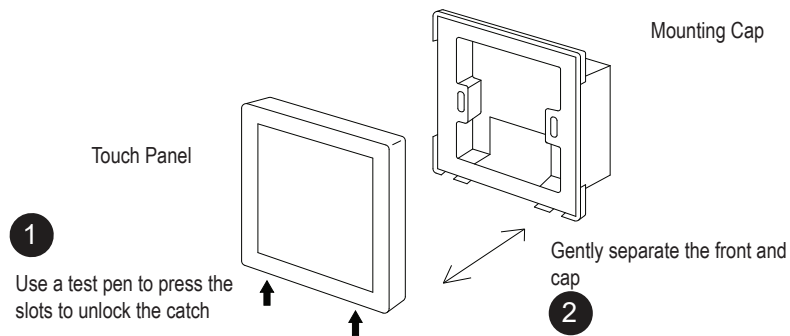
RP1106 can be installed directly to partition with hole size as shown.



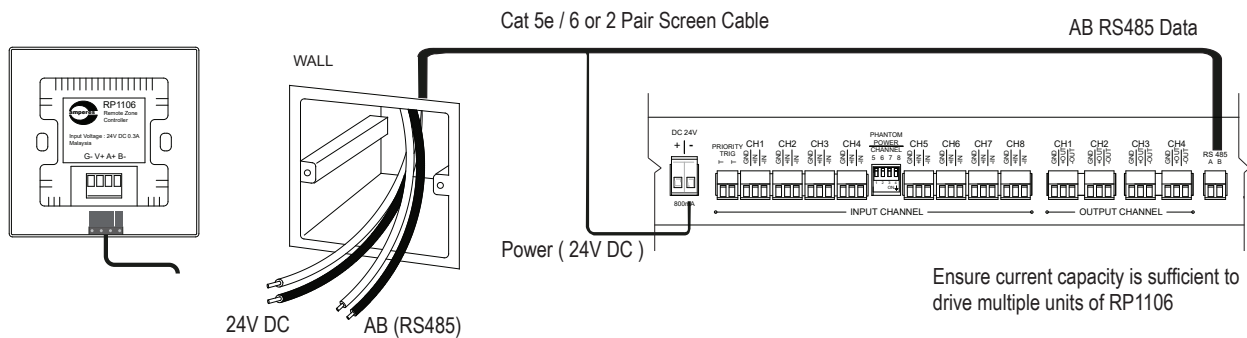
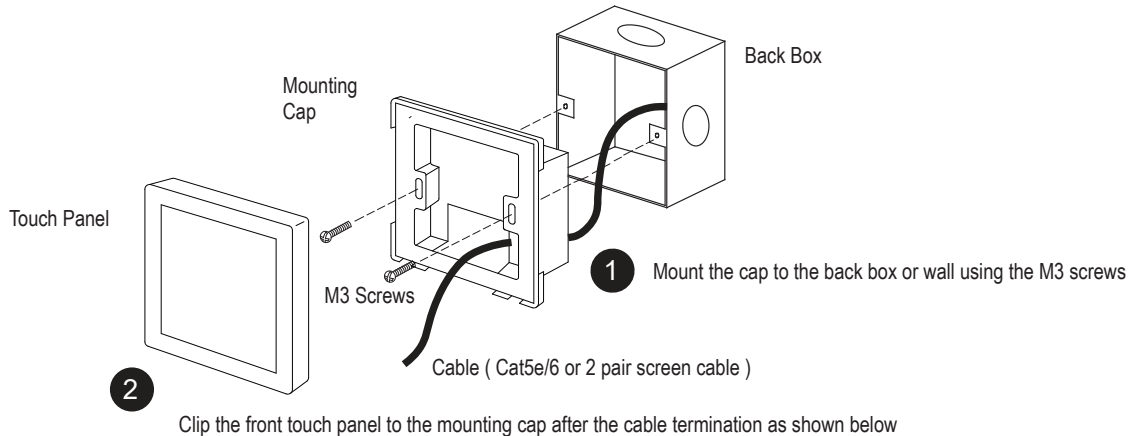
For brick wall installation, use the specially designed back enclosure for better protection.

Surface or concealed versions are available

2. SEPARATE DEVICE BACK MOUNTING CAP



3. SCREW THE CAP TO BACK ENCLOSURE / WALL PANEL



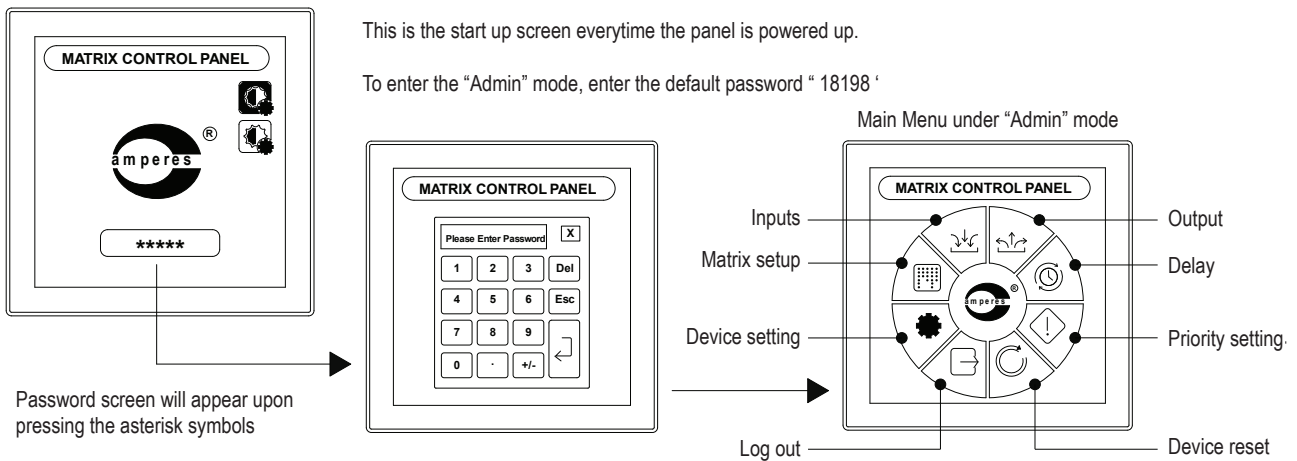
Setup Mode of Operation

The modes of operation is possible in which Admin mode has the privilege to access all functions of the device. The modes are :

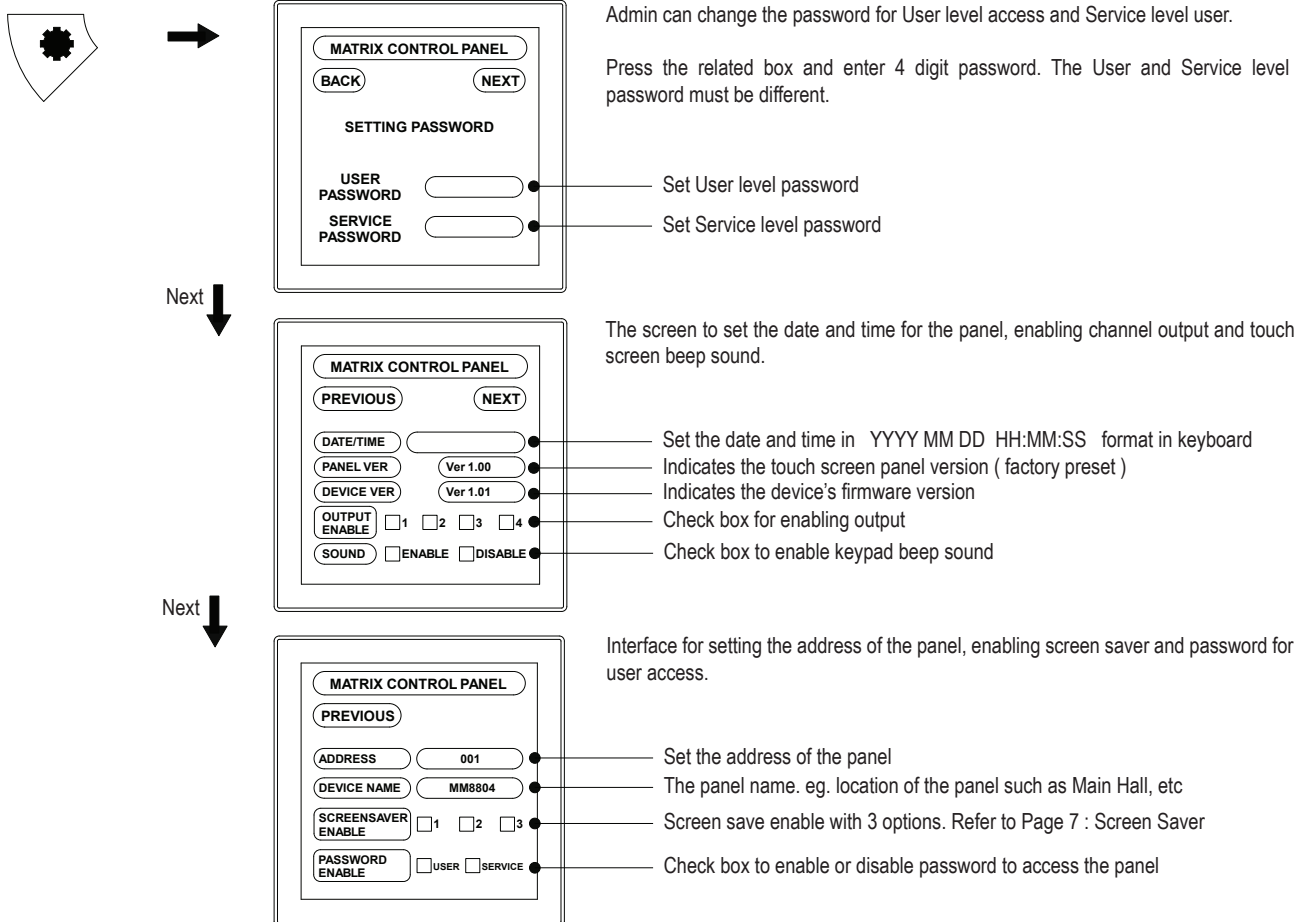
1. Admin mode - allows all access including password change, IP address etc. (Default password : 18198)
2. Service mode - allows all access except Device Setting and Device Reset (Default password : 2222)
3. User mode - limited to input and output volume controls and source selection (Default password : 1111)

Admin is allowed to assign or change the password.

ADMIN MODE (MENUS ONLY AVAILABLE IN ADMIN MODE)



Device Setting

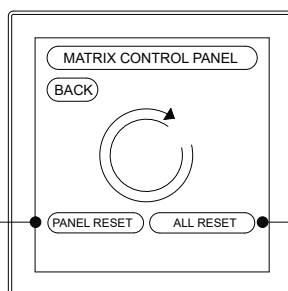


Setup Mode of Operation

Device Setting

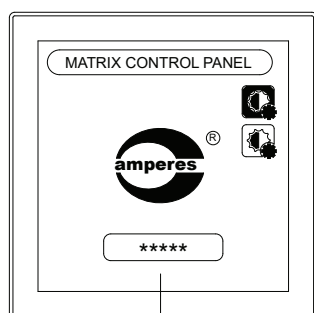


Panel Reset will reset passwords and other setting at the panel to factory defaults.



Click this to reset MM8804 settings to factory defaults.

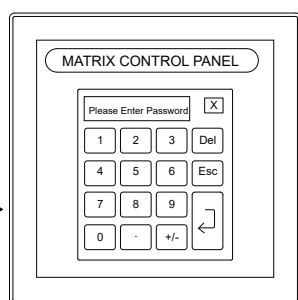
ADMIN & SERVICE MODE (MENUS ONLY AVAILABLE BOTH IN ADMIN AND SERVICE MODE)



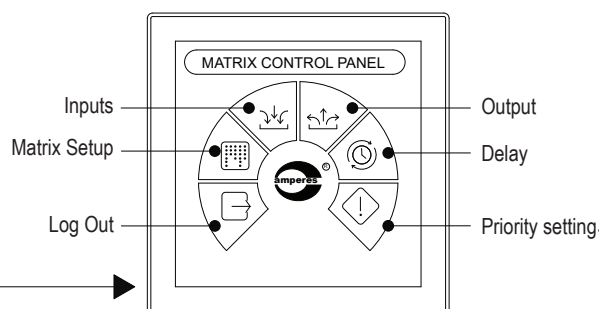
Password screen will appear upon pressing the asterisk symbols

This is the start up screen everytime the panel is powered up.

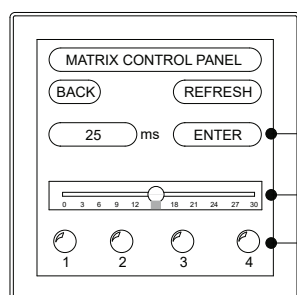
To enter the "Service" mode, enter the default password " 2222 " or the 4 digit password programmed by the administrator



Service level access UI



Output Delay



One of the 4 outputs can be delayed of up to 30 ms. This is to enable the sound output to reach the audience at the same time, such as inside a lecture theatre with frontal speakers and reinforcement ceiling speakers at the rear. In such case, the sound output from the ceiling speakers should be delayed.

Press Enter to make the channel delay to take effect

Slider to select the delay in milliseconds

Select the output channel for delay. Only one output is allowed for this function.

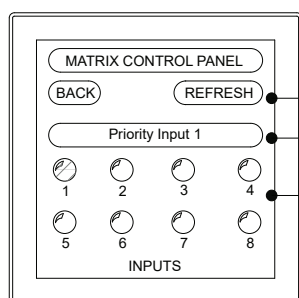
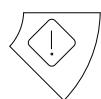
Below is the table of delay against time (ms)

Distance (m)	Duration (ms)
1	2.91
2	5.82
3	8.73
4	11.64
5	14.55
6	17.46
7	20.37
8	23.28
9	26.19
10	29.11

The table is approximate for ambient temperature of 20 C with 50% humidity. The delay may varies according to these factors

Setup Mode of Operation

Priority Setting



Any of the inputs can be set as a priority channel which will bypass all inputs and reroute the output to the particular input.

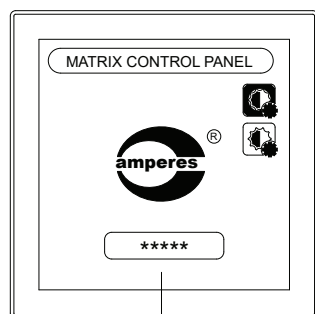
Refresh to make the setting taking effect

Indicator of priority input

Selection button for priority

Priority mode is triggered when the "Priority Trig" port is closed by a dry contact, which can be a paging mic (PM1030), EP1200 or EVM contact at MM8804.

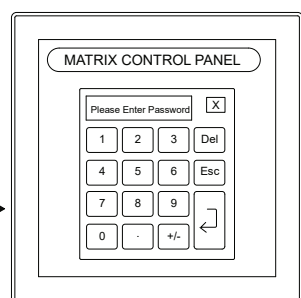
USER MODE (COMMON FUNCTION KEYS FOR ALL MODES)



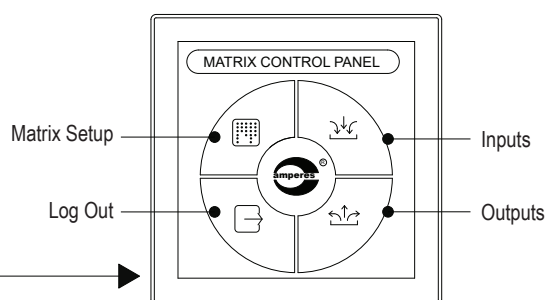
This is the start up screen everytime the panel is powered up.

To enter the " User " mode, enter the default password " 1111 " or the 4 digit password programmed by the administrator

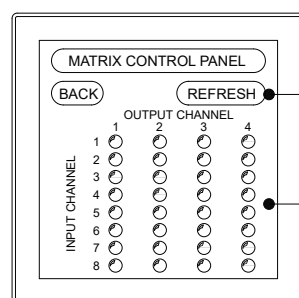
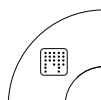
Password screen will appear upon pressing the asterisk symbols



User level access UI



Matrix

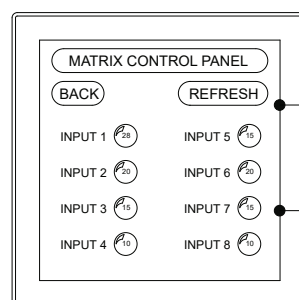


This interface allows the user to assign Input channels to Outputs. As MM8804 is a matrix mixer, a single output may consists of several inputs with mixed audio at outgoing.

Refresh to sync the panel indication and MM8804.

Input and output assignment in matrix format. Touch the button required and the output will automatically switch to the desired selection instantly.

Inputs



This interface allows the user to adjust the input volume accordingly. As some input devices may have different output level, it is useful to adjust them at input side to achieve equilibrium.

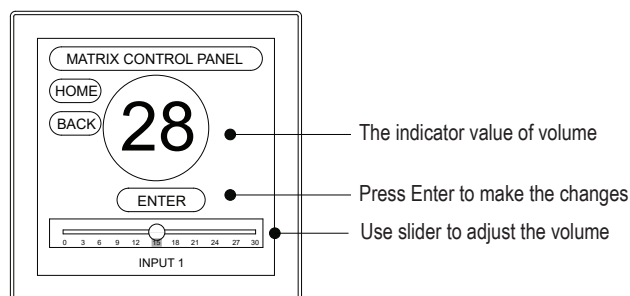
Refresh to sync the panel indication and MM8804.

Press the button to move to next screen for individual volume adjustment

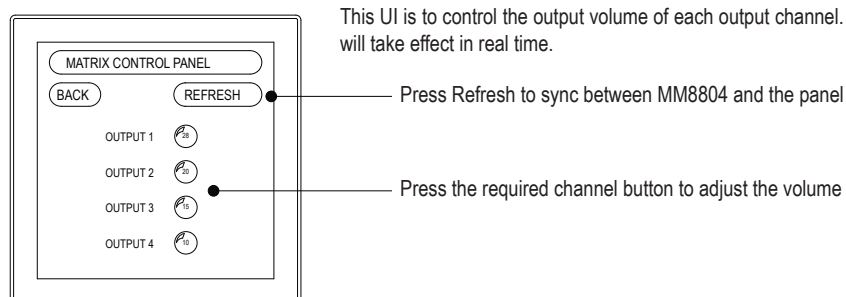
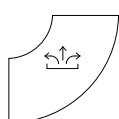
Setup Mode of Operation

Inputs (Con't)

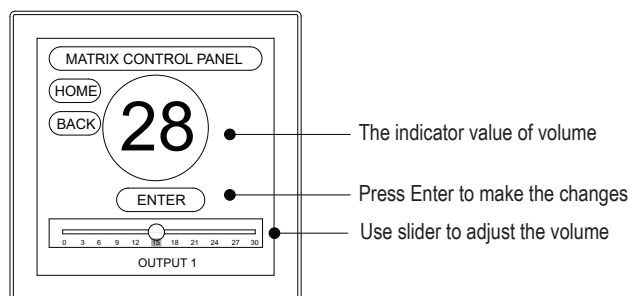
Next ↓



Outputs



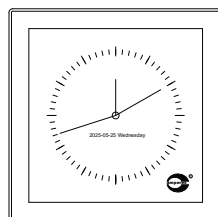
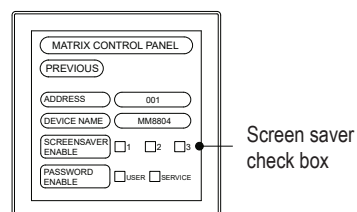
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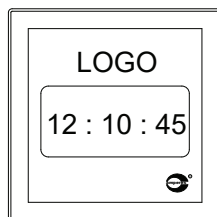
SCREEN SAVER

There are 3 types of screen saver formats that can be set. The panel will go into screen saver mode when there is no activity at the panel. In case if there are more than one being checked, the screen will rotate among the two or three.

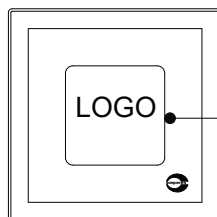
Go to Device Setting menu (under Admin mode only) and select the screen as below to perform the setting.



Screen Saver 1
Analogue clock



Screen Saver 2
Digital clock



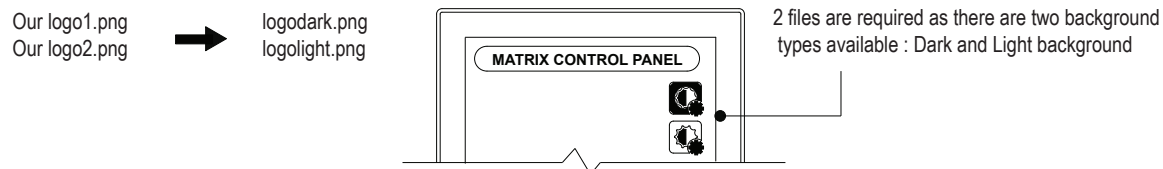
Screen Saver 3
Logo only

The logo can be customised. Refer to the section : Customise Own Logo

Customise Own Logo

You can have own logo added to the screen saver to enhance your venue. Follow these steps to embed the logo to the panel :

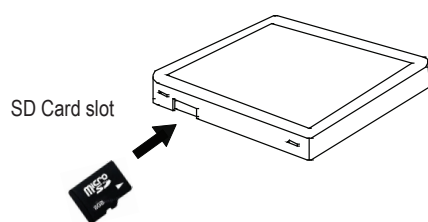
At your PC folder, rename your logo in .png file and to logodark.png and logolight.png. The file size must be below 48 kb.



Transfer the file from PC to SC Card



Insert the SD card to the panel and power on the device. The logo will be automatically saved into the panel. Remove the card from the panel once saved.



Technical Specifications

Power source	24V DC via MM8804 or external adapter
Power consumption	68 mA (1.7 W) or 41 mA (0.99 W) at screen saver mode
LCD panel	4" Diagonal capacitive touch screen
Communication protocol	RS485 : 19.2 kbps
Cabling	4 C screen (Data & Power) or Cat 5e / 6
Cable Distance	200 m
Max device per circuit	4 RP1106 via Cat 5e cable (0.41 A drawn at max distance)
Dimensions (W x H x D) mm	86 x 86 x 40 mm
Colour	White
Weight	100 g

The above specifications are correct at the time of printing and may be changed without prior notice due to our continuous product improvement policy.

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.

Eligibility

Amperes Electronics' Service Center will accept any device send in for repair / checking purchased from any of our dealers. Some dealers may have the right to refuse repair / service / checking for any device not purchased from them directly.

Coverage

This warranty covers only repairs and replacement of defective parts, due to defects of components or workmanship during product warranty period. For any product purchased exceeding the warranty period, a cost of repair shall be presented and will only proceed to rectifications upon agreed value. If the owner decides not to proceed, a minimal checking fees will be applied.

Exclusions

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 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.

Duration / Warranty Period

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.

Cost of Claiming Warranty

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.

Limitations

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. Our liability is limited to the cost of the product

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.



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