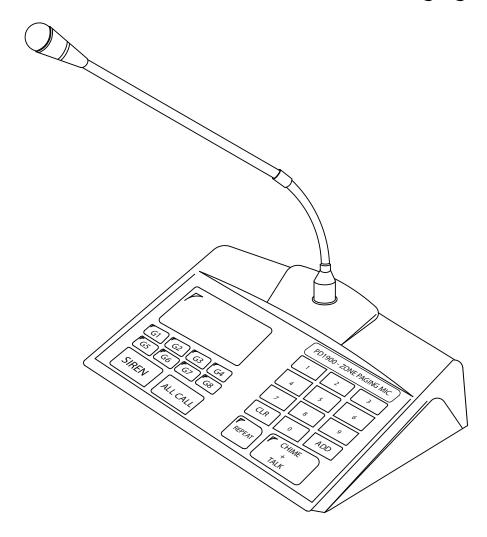


INSTRUCTION MANUAL

PD1900

Touch Screen Paging Microphone

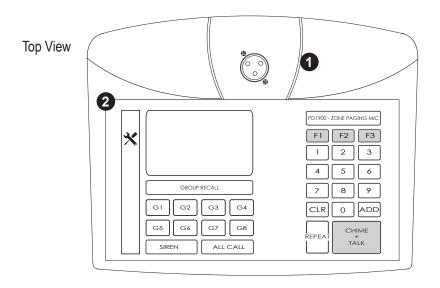


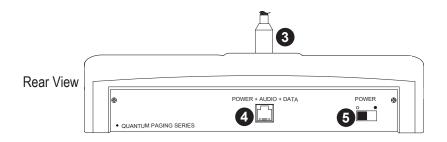
Thank you for choosing another quality product from Amperes Electronics.

PD1900 is a touch screen paging console with 7" capacitive panel of 800 x 480 pixels of resolutions. With its vivid colour rendering and user layout design, it shall provide an easy to operate plus contemporary user interface.

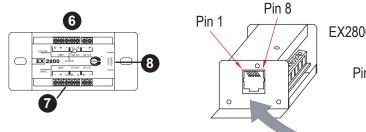
It is compatible with all zone decoders, IP paging clients and MxP2288 matrix controllers, with built in chime, volume controls and other hosts of features that would be made available from time to time. Integrate it to your PA system, and definitely it would bring up a class above from the rest.

Part Identification





EX2800



Pin 8
Pin 1

MIC CABLE
SUPPLIED

Pin 1 - Data A

Pin 2 - Data B

Pin 3 - Relay Trigger Signal

Pin 4 - NC

Pin 5 - +24V Supply

Pin 6 - Audio -ve output

Pin 7 - Ground

Pin 8 - Audio +ve output

Parts Identification

1. PAGING MICROPHONE INLET

XLR inlet for gooseneck microphone. Use only condenser microphone supplied or those operates under 3 to 9 V.

2. TOUCH SCREEN

7" capacitive touch screen colour panel with 800 x 480 resolution.

3. GOOSENECK MICROPHONE

This detachable condenser mic comes with illuminated ring when the mic is in active mode and ready for paging.

4.OUTPUT CONNECTION

Connect the RJ45 cable to EX2800 for power, data and audio. If the paging mic is located near the decoder at the rack (within 50m), the cable can be connected directly to TD6240 / TD6080 / TD6400 / MxP2288 without using EX2800.

5. POWER SWITCH

Switch for 24V power to the unit.

6. DATA / AUDIO OUTPUT (EX2800)

Data and audio are linked to TD6240 decoder unit using 2 pair screen cable. Please refer to 'Connecting the Unit' for detailed connection diagram.

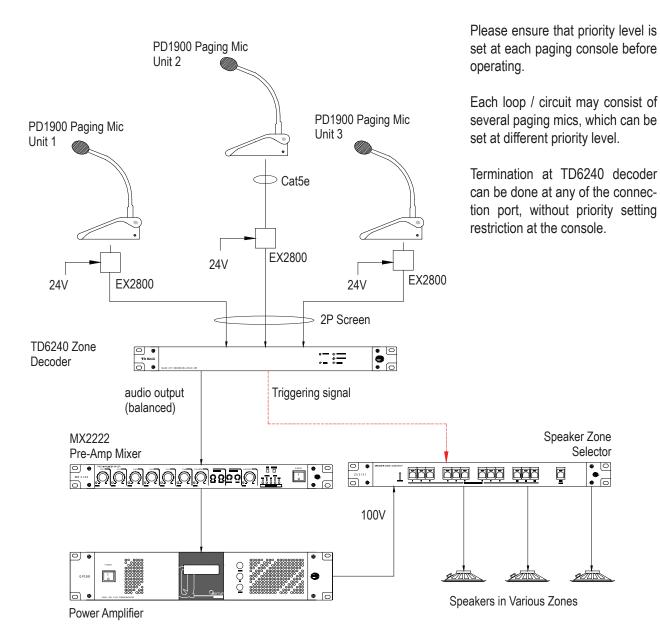
7. DATA / AUDIO INPUT LINK / DC SUPPLY (EX2800)

Data and audio from other EX2800 (if any) are fed to this port forming a circuit. This connection is applicable only if multipoint paging setup is established. Use a DC24V power adaptor supplied for powering the unit.

8. PAGING MIC CONNECTION (EX2800)

Connect to the paging mic via this RJ45 connector. For pin configuration, refer to the diagram.

Application Schematic



Other complementary equipment may be required in the system such as:

EP1200 for Emergency Paging and overriding

AX3800 / AC3801 Amplifier Changeover Panel for standby amp fault changeover

BC9740 / PS9400 Battery Charger and Power Supply

VR7600 Zone Volume control panel

Note on priority setting:

If the system consist of several paging mic with same priority;

The one activated earlier shall remain active and the other shall remain in busy mode. It is as first come first serve mode.

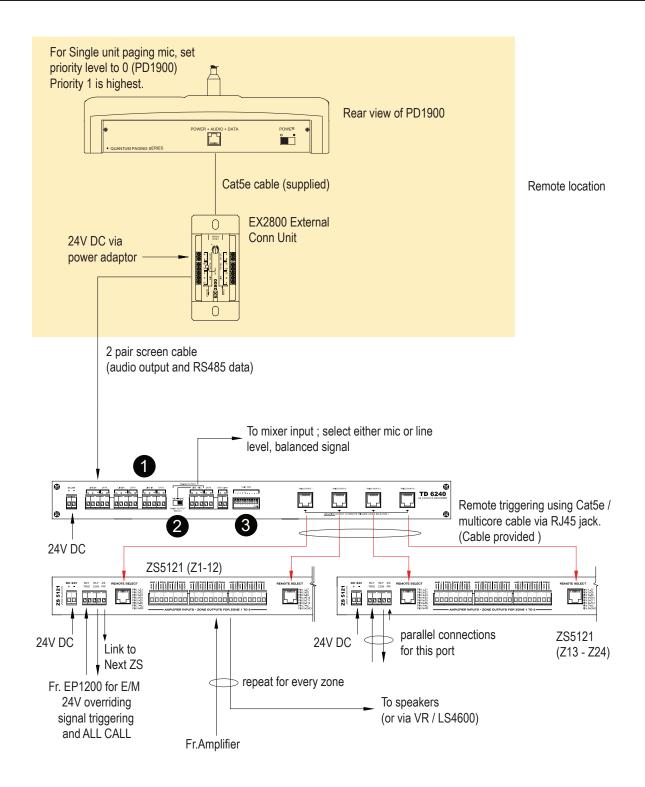
If the system consist of several paging mic with different priority:

The one with higher priority shall override the unit with lower priority even though the latter is in paging mode.

If lower priority unit would have busy LED blinking when the higher priority is active.

Priority 1 (highest) Priority 9 (lowest)

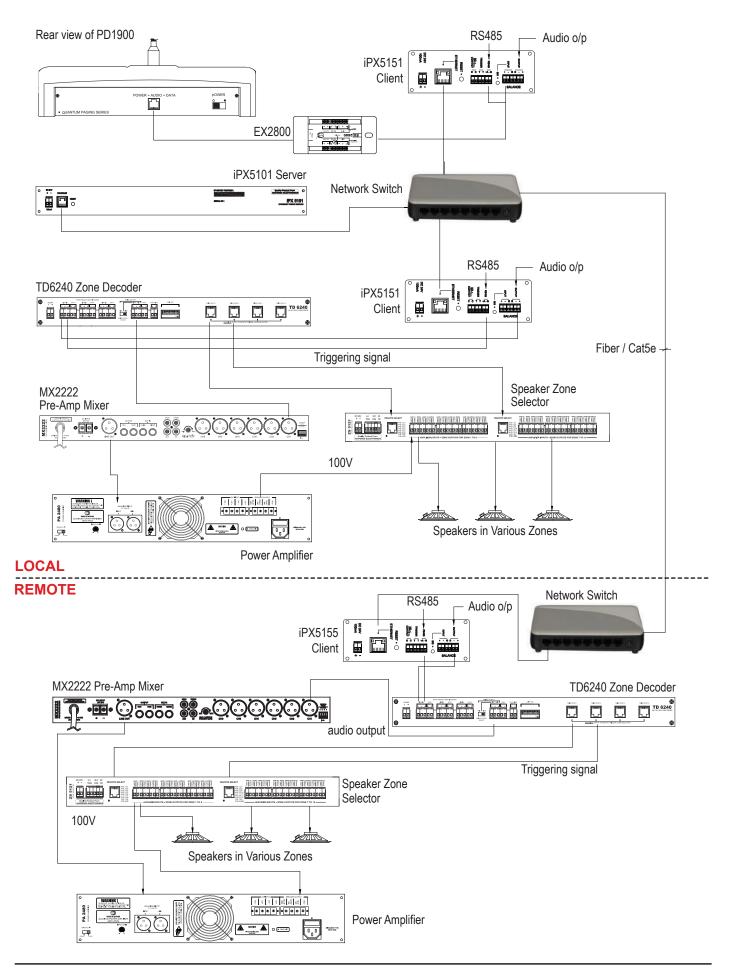
Connecting The Unit



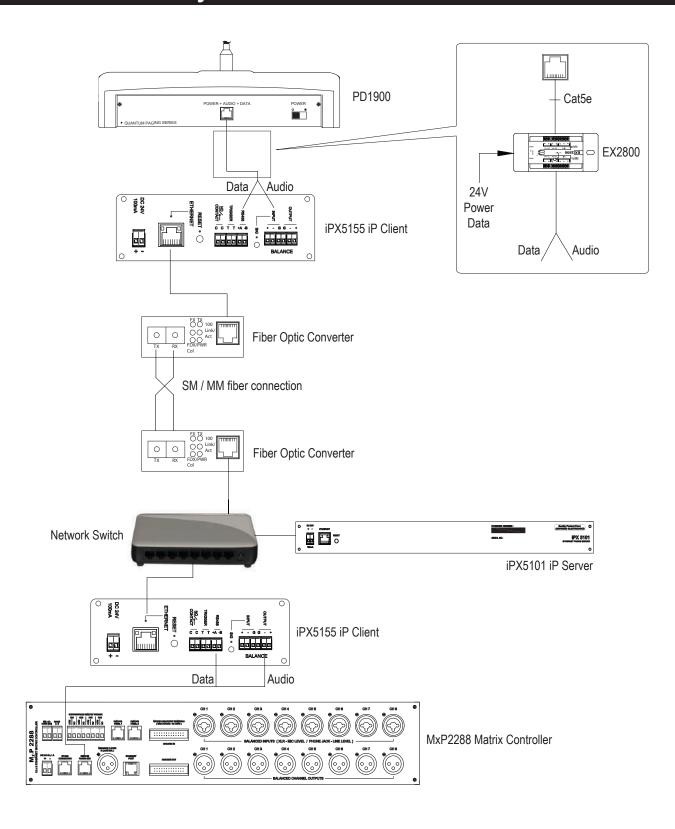
- Paging mic can be connected to any of the port regardless of the priority setting at the paging console.
- 2 Use this switch to select the audio output level; mic or line level when connecting to pre-amplifier mixer
- 3 Set unit address; each address represents one unit of decoder of 24 zones.

example : 10000 0000 - Zone 1 to 24 01000 0000 - Zone 25 to 48

Connecting to IP Paging System

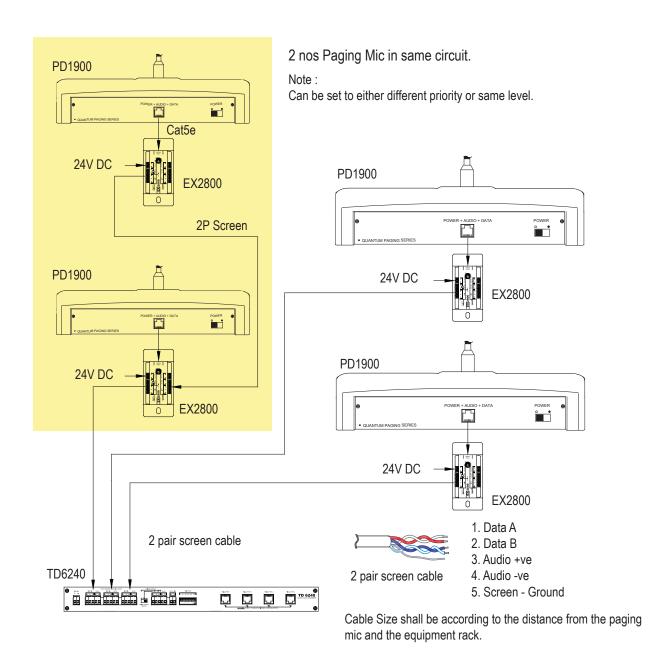


Remote Connectivity Via Fiber



The Diagram shows the connectivity using Fiber Optic for long distance mic connectivity with IP setup. Multipoint paging setup is possible and the paging mic shall operate in similar manner as of using conventional system.

Connecting The Unit (Multi Point)

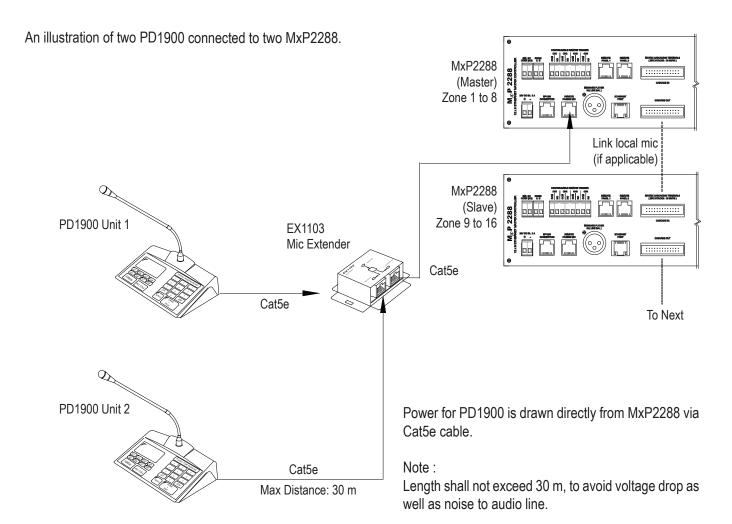


Connecting to Matrimix MxP2288

Since that MxP2288 MatriMix system is capable to cater for larger quantity of zones (8 input to 128 outputs), PD1900 has to be used as the paging mic for the system. More than one PD1900 can be installed.

There is some minor difference when using PD1900 in Matrix environment as compared with the conventional one:

- EX2800 shall be replaced by EX1103 (if more than one PD1900 is installed)
- Direct connection to MxP2288 if only one PD1900 and one Matrix is used.
- Power directly from MxP2288 (length do not exceed 30 m)



Setting up for the mic shall be similar to conventional setup as illustrated in the next pages.

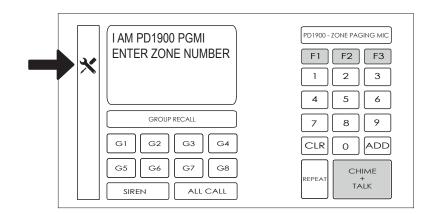
Unit Startup

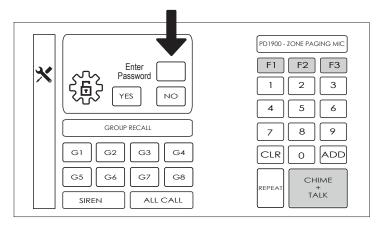


Upon powering the LCD display shall show 'Amperes Logo'.

Setup Menu

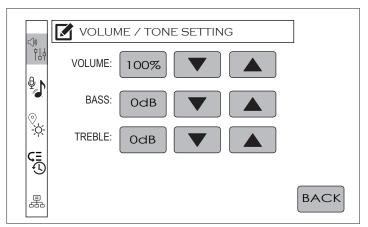
Touch on 'Setting Icon' to enter Setup mode.





Enter the password to enter setup mode. Default Password : 1234

Unit Setup

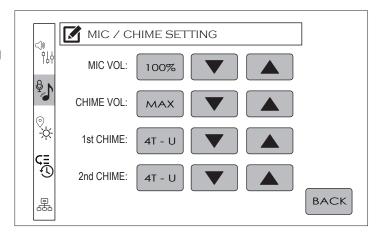


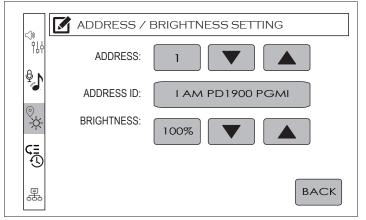
1. VOLUME / TONE SETTING

- This setting is to set the Volume, Bass and Treble.

2. MIC / CHIME SETTING

- This setting is to set the Chime Volume when the paging Mic is ON .
- Can adjust the Mic Volume.

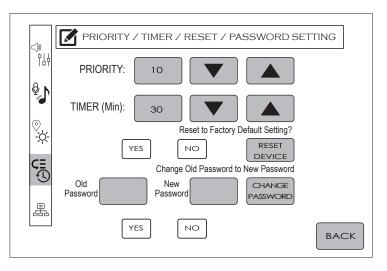




3. ADDRESS / BRIGHTNESS SETTING

- This setting is to set the Address & Address ID.
- To adjust brightness of screen.

Unit Setup



4. PRIORITY / TIMER / RESET / PASSWORD SETTING

- This setting is to set the priority level of the paging mic. Priority 1 is highest while NO Priority is considered normal and is used in single point paging setup. Maximum can set 10 level of priorities.
- Setting timer the duration that mic to be in active mode.

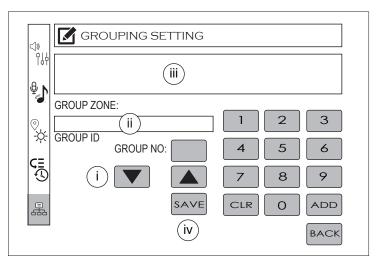
- Reset Device To reset and clear memories to factory default.
- Change Password Can change the password for security reason. Type the old password followed by a new password as indicated.

5. GROUPING SETTING

- This setting is to create group of zones and group names in the system.
- Group zone enable easy access to a group of zones for paging.

Follow the simple step below to setup grouping:

- i) Select Group Number by navigate UP and DOWN button.
- ii) Edit Group Name if necessary.
- iii) Insert desired Zone Number based on the group selected. Maximum 64 zones can be selected per group.
- iv) Once finished, click SAVE button.



Operating The Unit

A complete installation shall consist of the Mic, Zone Selector and Mixer / Amplifier. Initial setup such as priority level should be set. (if more than one PD1900 is installed)

PD1900 can be linked to TD6240 for zone decoding, or used in MatriMix MxP2288 for matrix installations.

Follow the simple steps below to begin paging.

1. DIRECT ZONE PAGING

Direct zone paging is when the user select the required zone and press CHIME + TALK button.

A chime shall be broadcasted followed by illuminated ring at the gooseneck mic.

To end paging, simply press the CHIME + TALK button again which would be followed by a downward chime.

Example:

Performing a paging to zone 1 and 15.

Press button "1"

Press button "ADD"

Press button "1" and "5"

Press "CHIME + TALK"

Talk when the LED ring at the mic is lit and to end, press "CHIME + TALK"

2. ALL CALL PAGING

To make an ALL CALL paging, press the "ALL CALL" button, without having to press "CHIME + TALK" button.

Paging mic is ready for announcement once the LED ring is lit.

To end paging, press the "ALL CALL" button again.

In ALL CALL paging, all normal zones shall be activated. This is however, would not energise 24V DC overriding supply to override volume controllers. To enable overriding, we recommend the usage of EP1200.

Example:

Making call to all normal zones (not overriding external volume controllers)

Press "ALL CALL"

Talk when the LED ring at the mic is lit and to end, press "ALL CALL"

Operating The Unit

3. GROUP PAGING

Zones that had been grouped during earlier setup can be recalled for paging with ease.

Paging mic is ready for announcement once the LED ring is lit.

To end paging, simply press the "CHIME + TALK" button again.

Example:

Performing a paging to Group 1 (consisting of zone 1,2,3,4,5) and Group 2 (consisting of zone 6,8,9)

Press "G1" for group 1

Press button "ADD"

Press "G2" for group 2

Press "CHIME + TALK "

Talk when the LED ring at the mic is lit and to end, press "CHIME + TALK"

4. COMBINATION OF INDIVIDUAL & GROUP PAGING

Zones that had been grouped during earlier setup can be recalled for paging with ease. Individual zones can added to combination with the group selection.

Paging mic is ready for announcement once the LED ring is lit.

To end paging, simply press the "CHIME + TALK" button again.

Example:

Performing a paging to Group 1 (consisting of zone 1,2,3,4,5) and 7, 10 for Individual Zone and Group 2 (consisting of zone 6, 8, 9)

Press "G1" for group 1

Press button "ADD "

Press "7, 10" for individual zone

Press button "ADD"

Press "G2" for group 2

Press " CHIME + TALK "

Talk when the LED ring at the mic is lit and to end, press "CHIME + TALK"

Features

- Illuminated gooseneck microphone upon activation
- 7" capacitive touch screen colour panel with 800 x 480 resolution.
- Multiple user interface available for user's selection
- Group of zone setting (Max 64 zones, 8 group)
- User name setting
- Future upgrade available with new features & interface making it a console that will never obsolete

Technical Specification

Operating voltage	24V DC via EX2800 with local power adaptor
Power consumption	1.3W
Zone selection	Numerical keypad with Group, All Call
Switching selection	Capacitive touch screen
Microphone	Gooseneck condenser capsule ; unidirectional
Output impedance	600 Ohm
Output level	1.2V balanced line output
Output controls	Chime, mic volume
Data connections	RS485; 19.2 kbps
Cabling to decoder	2 pair screen; 22 AWG / Cat 5e
Recommended operating distance	500m subjected to cable size
Compatible interfacing device	MxP2288, TD6240, TD6080, TD6400
Chime	4 tone up and 4 tone down
Indicators	Zone, power, audio, data, gooseneck ring LED
Displays	LCD display; white back illumination
Frequency response	100 - 12 kHz @ 1KHz +/- 3 dB
S / N ratio	>65 dB @ 1 KHz
Gooseneck mic length	370 mm
Dimension (W x H x D)	230 x 192 x 65 mm (Excluding Mic)
Weight	0.95 kg

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.

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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.

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