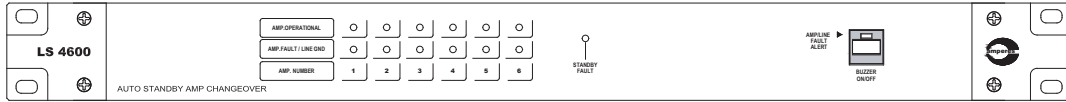


INSTRUCTION MANUAL

VER 1/0302



AX 700 AUTO AMPLIFIER CHANGEOVER UNIT

Thank you for choosing another quality product from Amperes Electronics.

AX700 is an automatic standby amplifier changeover unit which would provide auto surveillance setup for duty pa amplifiers. It serves 6 duty amplifiers with one standby, with the ability to cascade to allow a single standby amplifier to serve more than seven or more duty units. Reliability and durability is main concern and thereby we incorporate protection circuitries such as priority changeover and standby amplifier overloading prevention.

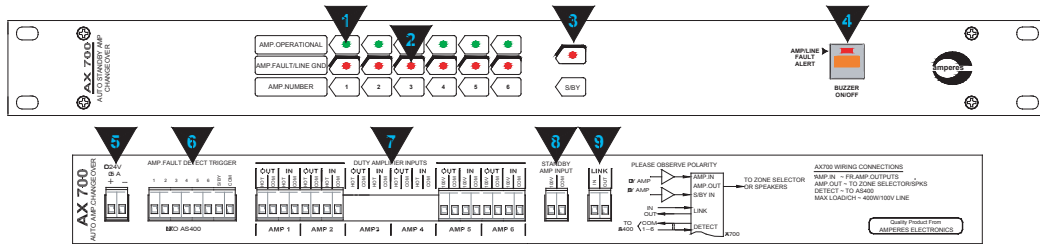
Though it is rather simple in the installation works, a brief read through the manual is recommended and we are confident that you are getting a product of excellence.



The Emerging Preference

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parts identification and function



1. AMPLIFIER OPERATIONAL LED

The 6 green LED which lits indicates that the duty amplifiers are in good condition.

2. AMP FAULT / LINE GND LED

The red LED when lits indicate that the corresponding duty amplifier is faulty and its load has been taken over by the standby unit. If more than 2 LED lit, the one with higher amplifier numbering would have priority to the standby unit. At any one time, the standby amplifier is only allowed to serve a failed duty amp.

3. STANDBY AMPLIFIER FAULT LED

In the event that the standby amplifier is faulty, this LED would indicate its status in red colour.

4. AMP FAULT LED & BUZZER SWITCH

Whenever a switchover takes place or duty amplifier/line fault is detected, an audible buzzer would sound with LED indicator lit. The audio alarm can be switched off but the LED would remain until the fault is removed.

5. DC SUPPLY INPUT

24V DC regulated supply is recommended as power source, eg . Amperes PS301S. Please observe polarity when connecting.

6. AMP FAULT DETECT TRIGGER

Amperes AS400 auto surveillance module is linked to this port (up to 6 units). If other detection module is to be employed, please consult our technical department for details.

7. DUTY AMP. CONNECTION PORT

Up to 6 duty amplifiers are to be connected to this terminals

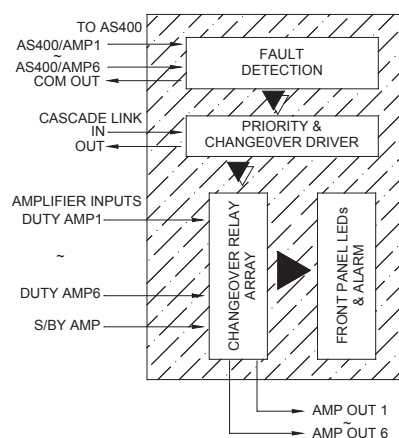
8. STANDBY AMP. PORT

Standby amplifier is terminated to this terminal. Correct polarity must be observed, otherwise would cause severe damages to your amplifiers as well as the changeover unit.

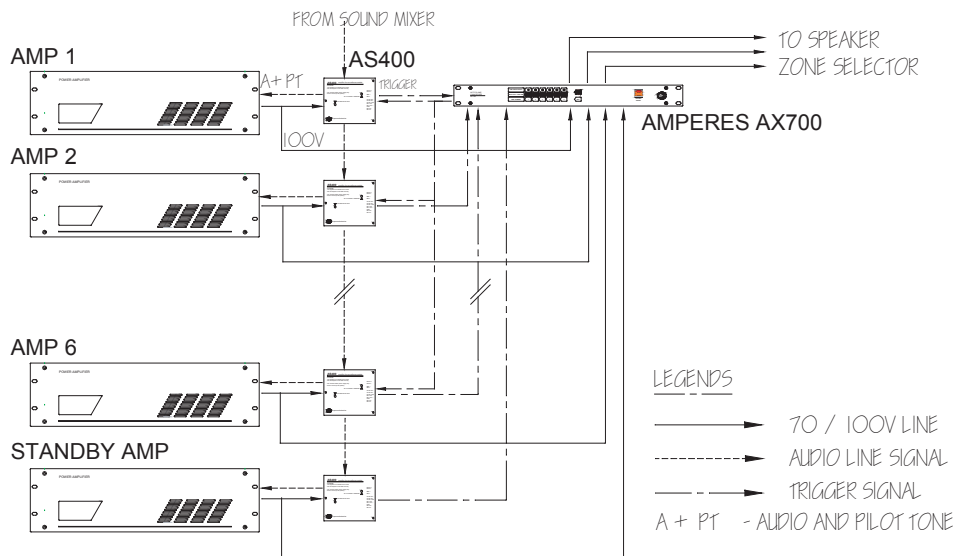
9. LINK/CASCADE TERMINAL

If more than one AX700 is to be used (ie. 1 standby to serve more than 6 duty amplifiers), link all the AX700 using this port.

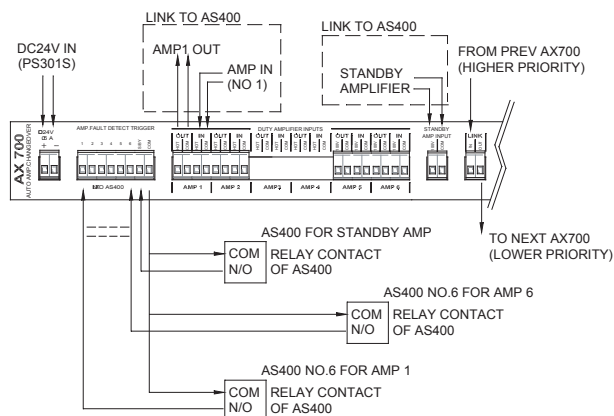
block diagram



application schematic



connecting the unit



NOTE :

POLARITY MUST BE OBSERVED IN CONNECTIONS

FOR DETAIL CONNECTION OF AS400, PLEASE REFER TO ITS RESPECTIVE INSTRUCTION MANUAL

FOR CONNECTION TO OTHER BRAND OF AMPLIFIER SURVEILLANCE MODULE, USE THE 'COM' OF AX700 AS TRIGGERING SIGNAL. DO NOT USE DIRECT 24V DC TO TRIGGER

technical specifications

Operating voltage
Power consumption

24V DC : 0.5 A
Standby (82 mW, 3.4 mA) ,
Operating (1.3W, 50 mA)

Insertion loss
Zone load (max)
Amplifier inputs
Indicators (visual)

-0.5 dB max
400 w (70 / 100 V line)
6 duty , 1 standby
Normal (green), Amp. fault (red)
changeover active
Buzzer with ON/OFF switch

Indicators (audio)

Cascading
Switching mode

via two wire link cable
Automatic upon detecting signal from
amplifier surveillance module

Switching trigger
Cabling

Positive triggered contact
Via rear detachable connectors,

Dimensions
Weight
Colour

482 (w) x 44 (h) x 130 (d) mm
1.9 kg
Black, powder epoxy coated

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 or its authorized master distributor, Amperes Global Marketing. 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 12 months from the date of purchase or for a longer 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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