



 $20\frac{22}{23}$





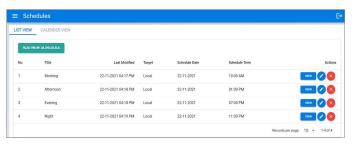
Weekly Programmable Timer PT1801



PT1801 MK II succeeded its predecessor, packed with more advanced features for the ease of applications and controls. It is now LAN ready, which allows the user to access and setup the program times in a much more convenient way.

Users can now download melodies and songs of their choice directly to the unit without having to add additional external player. User can also play the tunes at designated schedules.

PT1801 MK II is also compatible to be integrated into Amperes iPX environment, which enabling schedules to be sent to iPX5155. Alongside with its balanced line out, PT1801 MK II is indeed an equipment of right choice.



Creating schedules has been made simpler with user friendly $\ensuremath{\mathsf{GUI}}$

Technical Specifications

lance college	241/ DC + 0 5 A
Input voltage	24V DC ; 0.5 A
Power consumption	4.8 W
Output channels	8 dry contacts
Output contact rating	3 A
Contact connectors	Phoenix
Output triggering modes	ON, OFF, Pulse (3 seconds)
Output audio	Line out, +4 dBU balanced
Audio connectors	Mini Phoenix connectors
Output impedance	1 k Ohm
Preset capacity	1000 presets
Internal memory bank	32 GB
Indicators	LCD
Clock synchronization	World clock sync, PC
Clock back up	CR1220 button battery
RTC accuracy	+/- 2 ppm
Communications	LAN ; 10/100 Base T
	RS485 ; 19.2 kbps
Dimensions	482 x 44 x 180 mm
Weight	2.0 kg

Packing information

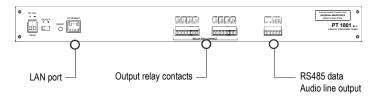
Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.55 kg 1 unit per carton

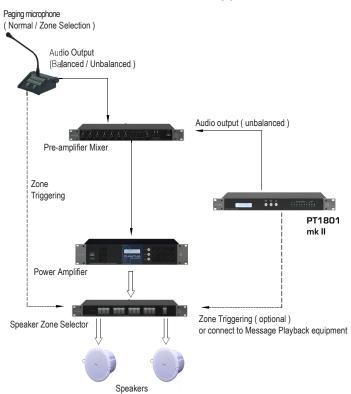
Features

- LAN connectivity for ease of setup and controls with world clock synchronization
- Compatible to be used in Amperes iPX environment
- 16 GB memory bank for large and multiple files for playback
- 8 dry contact upon schedule activations
- User friendly GUI

Rear View:



Application Schematic







Fire Alarm Interface FI6000 MK II
Fire Alarm Interface Extender FI6001



FI6000 MK II is an improvised phase evacuation controller, which is an essential intermediary device between Fire Alarm Panel and PA System. It enables zone controls and playback of various EVAC messages in pre-programmed sequences of activities. The orderly and automated activities upon receiving signals from Fire Alarm Panel (FAP) are part of compliance to EN54 or BS5839 Part 8 standards.

FI6000 has been improved and LAN interface has been added for the ease of programming via web interface instead of application software. Attractive and user friendly UI has been developed for better user experience during configurations.

FI6001 is an extension unit to the main FI6000 controller if the number of channels are more than 24. It can be able to be extended of up to 4 units (1 Master, 4 Slaves), which is equivalent to 120 receiving ports.

Creating schedules has been made simpler with user friendly GUI



Schematic Diagram

Input voltage	24 V DC ; 1 A
Power consumption (all triggered)	21 W ; 0.9 A
Input channels	24 ports
Max expandable unit (FI6001)	4; max 120 channels
Trigger method	Dry contact, NO
Output channels (dry contacts)	4
Output contact rating	3 A
Output contact modes	ON, OFF
Contact connectors	Mini Phoenix
Indicators	Channel bi colour LED
	Dry contact LED
Communications	RS485 ; 19.2 kbps
	LAN 10/100 Base T
User interface	Web browser : Google, Firefox
Dimensions	482 x 44 x 180 mm
Weight	1.9 kg

Packing information

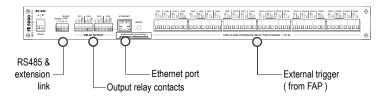
Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.55 kg 1 unit per carton

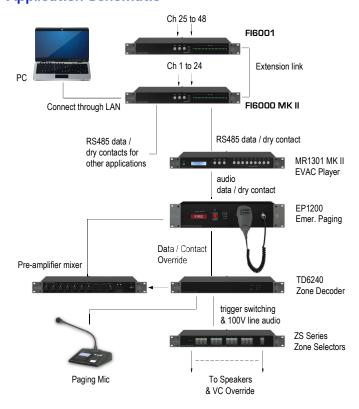
Features

- LAN connectivity for ease of setup and controls
- Available in 24 channels and can be extended with FI6001
- Integrated with Amperes products via RS485 and dry contacts
- Bi colour LEDs for easy identification of status
- Most suitable Fire Alarm Interface for Phase Evacuation activities
- User friendly GUI

Rear View:



Application Schematic





www.ampereselectronics.com

INPUT SOURCES & CONTROLS

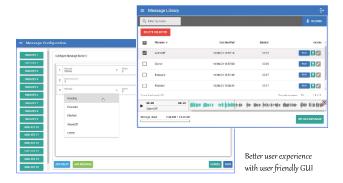
MR1301 EVAC Message Player / Voice Recorder





MR1301 - EVAC Voice Message player has been further upgraded, notably the way the unit shall be setup. LAN port has been added to enable configuration to be performed smoothly using web interface with user friendly GUI. Tasks such as uploading of files, combining or grouping messages, and key assignments shall all be done via web browser or the front button keys.

As one of the most important equipment in EVAC, MR1301 MK II shall perform beyond the user's expectation by providing precise message delivery and clarity, to enable timely and systematic evacuation procedures in time of distress. Apart from the above application, it can also be used as general message player such as prayer playback, voice recording and other usages as required.



Technical Specifications

Operating voltage	24V DC ; 1A
	·
Power consumption	2.4 W (0.1 A)
Standby consumption	1.7 W (0.07 A)
Data connection	RS485 : Mini Phoenix connector, 19.2 kbps
	LAN : RJ45, 10/100 Base T
Inputs	Line in ; Unbalanced via RCA jack
	Mic in (recording): 1/4" balanced phone jack
Message trigger	16 memory banks : Front and rear
Playback format	MP3, WAV
Voice recording	MP3, 1 hour per message
Playback delay	Yes
Priority message cut	Yes
User interface	Google Chrome, Edge
Remote view / control	Yes
Indicators	LED, 2x18 Char LCD
Memory	16 GB non detachable SD card (option for 32)
Dimensions (WxHXD)	482 x 44 x 180 mm
Weight	2.0 kg

Packing information

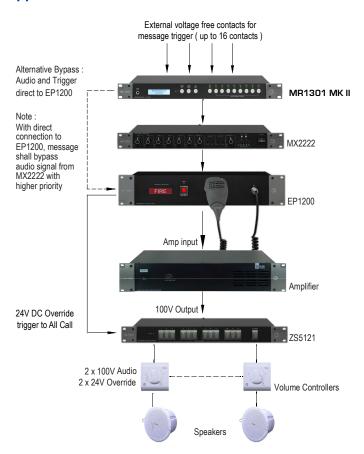
Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.55 kg 1 unit per carton

Features

- Up to 32 GB of memory space for large file storage and recording
- Web technology with user friendly GUI for setup, upload files and configurations
- Message playback via front button / rear remote triggering
- High quality MP3 audio playback of up to 320 kbps with 64 kbps IMA ADPCM voice recording
- Flexible message configuration in every memory bank, ie. multiple files in single button with delay setting in between
- Flexible message playback sequencing
- Event logging with time stamp for every message played, triggered and powered.
- Built in 5 band equalizer
- File / setting back up and restore
- Simple firmware updates

Application Schematic







Event & Audio Recorder AR1400

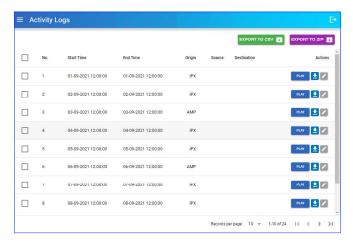
preliminary information



AR1400 is a dual purpose machine, which serves as an event logging device as well as audio recorder. Activities or events running in the system shall be logged with time stamps and the announcement audio shall be recorded accordingly. This is to provide evidence if there is any disputes raised.

It shall record analogue audio during normal paging, emergency paging mic as well as in IP paging. With the large memory banks, hundreds of hours of audio recordings can be stored.

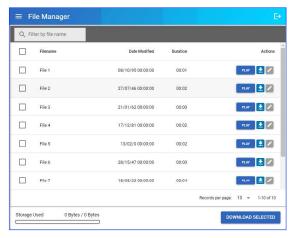
Apart from application in PA, it can also be used to record audio via Aux input, such as recording audio from conference systems and meetings.



Activities shall be monitored and recorded with time stamp, which can be easily downloaded or export the logs into CSV files

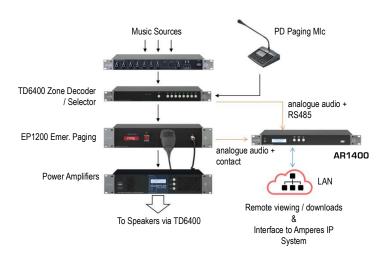
Features

- LAN connectivity for ease of setup and controls
- Simultaneous recording for 2 analogue inputs
- Compatible with Amperes IP paging audio recording
- 32 GB of memory for hundreds of hours of recordings
- RS485 data port for external controls
- World clock synchronization
- Report generation to CSV file
- Access through web browser for setup and file retrieve



File manager section which enable recorded audios to be downloaded to PC

Application Schematic



The above shows one of the possible application schematics to record voice normal and emergency paging by AR1400.

Technical Specifications

Input voltage	24 V DC ; 1 A
Power consumption (all triggered)	2.1 W ; (0.09 A)
Input channels	3 (including iPX)
PMX record initiation	Via iPX5101
Analogue input record initiation	Dry contact and RS485
Input level	Line : Balanced Max +4dBU
Output contacts	1
Storage media	32 GB
Recording duration	500 hours
Recording format	WAV, MP3
Indicators	LCD display
Communications	RS485 ; 19.2 kbps
	LAN 10/100 Base T
User interface	Web browser : Google, Firefox
Dimensions	482 x 44 x 180 mm
Weight	1.9 kg
	-

Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm Gross weight : 2.55 kg 1 unit per carton

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PRE-AMPLIFIER MIXER

MX2222

12 Inputs Pre-amplifier Mixer

MX2222 is a compact mixer suitable for commercial PA applications with all features required to comply with EVAC system such as priority muting.

It is also suitable for other general applications such as audio mixing in meeting rooms, lecture theaters, house of worships, etc.

Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 2.9 kg 1 unit per carton



Features

- ₱ 12 inputs of mic, BGM sources, ext.chime and mixer link for channel expansion.
- Auto muting with adjustable ducking level for Ch. 1,2, chime and line in
- Priority muting with disable option for normal mixing mode
- Switchable phantom power for mic channel 1 to 4
- Dual output; mixed line and BGM output for uninterrupted paging setup
- Independently adjustable BGM balance line output level
- Built in daisy chain source selector with last selection memory
- Bass and treble tone control
- AC and DC power source for uninterrupted operation during power failure

MX2322

13 Inputs Dual Bus Pre-Amplifier Mixer

MX2322 is a further refined pre-amplifier mixer with dual bus outputs, suitable for both EVAC commercial PA installations as well as for other general usage in meeting rooms, function halls etc.

Connections has been made simpler with Phoenix connectors, which is a preferred choice for fixed installations.



Features

- 8 mic / line, 2 RCA, 2 external lines and 1 paging mic high priority inputs
- Switchable phantom power for Ch.1 to Ch.8
- Gain controls for mic and line inputs
- Assignable input to output A or B or both
- Priority muting switch to override BGM sources
- Dual output A and B with separate record output channels
- Low, Mid and High main tone controls for both outputs
- AC and DC power source for uninterrupted operation during power failure

Packing information

Carton size : 555 (L) x 295 (W) x 165 (H) mm

Gross weight: 4.0 kg 1 unit per carton

-					
	MX2222	MX2322			
Operating voltage	220 ~ 240 V ac : 50 / 60 Hz / 24V DC				
Current (max)	10 mA (240V ac) / 100 mA (24V DC)	40 mA (240V ac) / 260 mA (24V DC)			
Power consumption (max)	2.4W (240V ac / 24V DC)	9.6W (240V ac) / 6.3W (24V DC)			
Inputs	6 x Mic + phantom power at Ch 1 to 4	8 x Mic / Line with gain controls + phantom power			
	2 x Line input with priority, 4 x RCA	2 x Line input with priority, 2 x RCA, 1 paging mic			
Input impedance	RCA: 47 k Ohm, Mic: 10 k Ohm, Link: 10 k Ohm	Line: 10 kOhm; Mic: 15 k Ohm			
Phantom power	12 V DC at Ch 1 to 4 (Switchable)	18V DC at Ch 1 to 8 (Switchable)			
Operating level (Sensitivity)	-30 dBU (mic)	, +4 dBU (line)			
Input level (max)	+10	+10 dBU			
Gain controls	+20 dBU balance	ced / unbalanced			
Crosstalk	> 60 dB	> 70 dB			
Outputs	1 x line balanced, 1 x records unnbalanced	2 (A & B) line balanced, 2 x records unnbalanced			
Output impedance (Ohm)	600 Ohm balanced	300 Ohm balanced			
Tone controls	2 : Low / Mid (300 Hz), Hi (10 kHz)	3 : Low (100 Hz), Mid (1 kHz), Hi (10 kHz)			
Frequency response	175 ~ 15 kHz	20 ~ 20 kHz			
S/N ratio / THD + N	> 60 dB / < 0.1%	> 75 dB / < 0.1%			
Connectors	XLR-F (mic in / line out), 1/4" TRS (line & mix in)	Mini Phoenix (mic / line inputs and outputs)			
	1/4" TRS Unbal (rec & BGM), RCA	RCA, RJ45 for Amperes PM1030 mic			
Dimensions (WxHxD)	482 x 44 x 185 mm	482 x 88 x 185 mm			
Weight	2.2 kg 3.3 kg				

2 In 8 Out Audio Distribution Amplifier DA2208



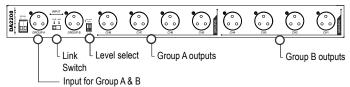
DA2208 is an audio (line level) distribution unit with configuration of 2 in x 4 out or 1 in x 8 out. As rule of thumb, a signal shall not be fed to more than six amplifiers in your PA rack in order to avoid signal degradation. Thus DA2208 shall come in handy to the solution.

Normally different amplifier will cater for different zones with specific speakers., such as horn and ceiling, the input shall be tuned to suit the sounders in terms of volume or tone. DA2208 has individual output tone controls for bass and treble and volume to fit to the requirement.

Features

- Operates as dual channel 1 input 4 output or single channel 1 input 8 output
- Individual bass and treble control with volume adjustment
- Fail safe feature : redirect input to outputs when DC supply or unit fails

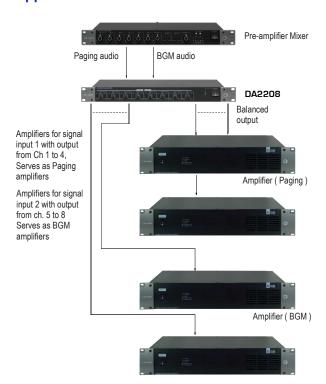
Rear View:



Technical Specifications

Operating voltage	24V DC ; 0.2A		
Power consumption	2.4 W, 0.1 A		
Configurations	1 in x 8 outputs		
	2 in x 4 outputs		
Input levels	Line : 1.2 V rms (+ 4 dBU) max		
Input impedance	10 k Ohm		
Output impedance	600 Ohm		
Gain	+ 4 dB		
Controls	Bass and Treble tones		
	Individual and master volume		
S/N ratio	> 60 dB		
THD + N	< 1 %		
Frequency response	150 - 19 k Hz (+/- 3 dB, 1 kHz)		
Connections	XLR 3 pins		
Dimension (W x H x D)	482 x 44 x 180 mm		
Weight	1.95 kg		

Application Schematic



The above illustration is for Uninterrupted Paging setup, which one set of amplifiers would be used for Paging purpose while the other only for BGM. Each output from DA2208 shall not be fed to more than 6 power amplifiers to avoid signal distortion.

Packing information

Carton size $: 555 (L) \times 295 (W) \times 95 (H) mm$

Gross weight : 2.55 kg 1 unit per carton



PA320 20W 4 Ohm Mini Amplifier

PA322 20W 4 Ohm Mini Amplifier with Dual Source

PA330

30W 100V Mini Amplifier

PA300 Series of mini amplifiers are available to power small number of localised speakers. 3 variants are available for different applications, with 4 ohm speaker connectivity as well as 100V line output for high impedance speakers. Their compact size enabled them to be stored in small enclosed areas such as cabinets, pole boxes, etc.

PA320

Used to amplify BGM to a speakers of 4 or 8 Ohm, from TV output to a bathroom speaker in hotel room. Amperes VC7805 volume controller and VP7810 BGM-Speaker patch panel can be installed for emergency overriding by central PA system.

Compact size of 20W 4 Ohm rating

Adjustable volume control



PA322

It is powered by Class D amplifier with built in PA overriding module which allows central PA to override local source for emergency broadcast. Two audio source can be connected to PA322, which is selectable via VC7001 volume controller with source selector button and smooth volume adjustment.

- Class D amplifier with 20W 4 Ohm rating
- Dual input source, selectable via external volume controller (VC7001)
- Easy connection to VC7001 for source selection and volume adjustment



PA330

It is suitable to be used as remote amplifier in decentralised system such as classroom paging, horn amplifier for security poles or to drive a group of localised high impedance speakers. To use as relay amplifiers along 100V line trunk, a down converter such as PR7400 can be installed with its output fed to PA330 to drive some 100V speakers.

- 30W 100V line output
- Adjustable volume controls



Packing information

PA320 PA330

LxWxH : 555 x 295 x 165 mm : 550 x 465 x 180 mm LxWxH

Qty per carton : 20 unit : 12 unit Qty per carton Weight : 16.20 kg Weight : 16.55 kg

	PA320	PA322	PA330		
Ratings	20W 4 Ohm		30W 100V		
Operating voltage		220 ~ 240 V AC			
Current consumption (240V AC)	0.14 A	0.03 A	0.24 A		
Inputs	1	2	1		
Input audio		Mono, unbalanced			
Input signal (sensitivity)		800 mV			
Input gain controls		-40 to +4 dBU			
Input impedance		10 k Ohm			
Outputs impedance	4 Ohm	4 Ohm	330 Ohm		
Controls	Volume	Volume & source select	Volume		
External link (optional)	VC7810, VP7810	VC7001	VC7030		
Frequency response	100 - 18 kHz	20 - 20 kHz	100 - 20 kHz		
S/N ratio		> 65 dB			
Operating temperature	-10 to 60 deg C				
Operating humidity	80%				
Dimensions (W x H x D) mm	130 x 55 x 95	140 x 55 x 95	150 x 71 x 155		
Net weight (kg)	0.76	0.82	1.10		





QD 2100

POWER

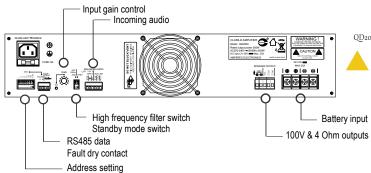
250W 100V Line QD2025 500W 100V Line QD2050 750W 100V Line QD2075 1000W 100V Line QD2100

QD2000 Series are newly added models of high performance power packs to the range of 100V line output power amplifiers. It is born out of in-depth R and D to produce high efficiency with broad frequency response for reliable and robust applications in PA installations.

QD2000 Series distinguished itself from others of its class by incorporating Auto Fault Sensor (AFS) circuit and is equipped with RS485 data port for remote monitoring by Amperes PMX LAN.

Features

- High efficiency Class D power amplifier technology
- 100V and 4 Ohm outputs
- High pass filter for speaker protections
- Switchable standby input detection for low power consumption during DC back up
- Auto fault sensor (AFS) with dry contact
- Remote monitoring via RS485 data port, compatible with iPX5500 data comm box
- AC and DC operation for uninterrupted operation during power failure



 $\label{eq:QD2000} QD2000 is built with various protections for durability-thermal, short circuit, overload and fuse.$

Packing information

Carton size : 550 (L) x 465 (W) x 180 (H) mm

Gross weight:

QD2025, 2050 : 8.40 kg QD2075, 2100 : 8.60 kg

1 unit per carton

	QD2025	QD2050	QD2075	QD2100		
Operating voltage	220 - 240V AC : 50/60 Hz or 21-30V DC Back up supply					
Rated output (rms at 100V)	250W	,				
Power consumption (240VAC)	350 VA (1.3 A)					
Current consumption (24V DC)	15 A	25 A	40 A	1300 VA (5.1 A) 50 A		
DC back up standby current		1.2 A (With s	standby Off)			
Input sensitivity (100V out)		1V rms balanced input via ph	oenix connector (15 kOhm)			
Input link (buffered)		0 dB balanced I	ine (10 kOhm)			
Input signal standby		Switchable auto d	letect / always ON			
Input HF filter		150 Hz @-3dB sl	op via DIP switch			
Output		100V line	e/40hm			
4 Ohm output voltage		50)V			
Frequency response		60 - 20 kHz (+	-/- 3dB, 1kHz)			
S/N ratio		>68	B dB			
THD + N		< 0.	2 %			
Protections		Thermal, short circuit, overloa	d, AC and DC fuses, Standby			
Cut off temperature		75	iC .			
Communications		RS485;	19.2 kbps			
Indicators		Signal, Temp, Fa	ault, Power LEDs			
Fault relay		NO dry contact ; 3A				
Cooling system	Auto temp controlled fan					
Operating temperature	-10 to 45 C					
Storage temperature	-40 to 70 C					
Humidity	95%					
Dimensions (WxHxD) mm	482 x 88 x 340 mm					
Net weight (kg)	6.8 6.8 7.0 7.1					



DP2240 2 x 240W 100V DP4240 4 x 240W 100V DP2500 2 x 500W 100V



DP2000 Series are multi channel Class D power amplifiers available in three variants, serving the needs of wider frequency range of audio. It is also compact in size and lighter than conventional power packs.

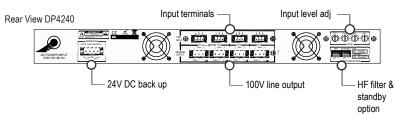
The high efficiency Class D circuits also reduces power consumption, an essential factor in reducing carbon prints to the environment.

Features

- Switching power supply technology with Class D amplification
- Available in 2 x 240W, 4 x 240W and 2 x 500W 100V line & 4 16 Ohm outputs
- Compact multichannel in 1 HU enclosure for rack space saving
- Individual balanced input with separate volume adjustment
- Bandpass filter to cut off unwanted bass audio and high pitch audio
- Short circuit, overload, temperature and DC protections
- Switchable sleep / On mode when input signal is not presence for energy saving

Rear View DP2240





Packing information

Carton size : 605 (L) x 560 (W) x 125 (H) mm

Gross weight:

DP2240 : 7.75 kg DP2500 : 8.50 kg DP4240 : 8.40 kg

1 unit per carton

	DP2240	DP2500	DP4240		
Ratings (rms) 100V output	2 x 240 W	2 x 500 W	4 x 240 W		
Operating voltage	22	220 ~ 240 V AC or 24 V DC back up supply			
Power consumption (240V AC)	550 VA (2.3 A)	1100 VA	(4.6 A)		
Current consumption (24V DC)	22 A	46	S A		
Standby current (24V DC)		0.3 A			
Input signal (sensitivity)	0.775 V	(0 dBU) / 10 k Ohm via Phoenix co	nnectors		
Input gain controls		-40 to +4 dBU			
Outputs	100V line and 4 - 16 Ohm				
4 Ohm output voltage		38 V			
Output impedance (max load)	40 Ohm / Ch	20 Ohm / Ch	40 Ohm / Ch		
Frequency response		20 - 20 kHz @ 1 kHz +/- 3dB			
S/N ratio		> 80 dB @ 1 kHz, 1V			
THD + N		< 0.1 %, 1 kHz			
Protections	Therma	l, short circuit, overload, fuse, in-rush	current		
Cut off temperature		75 deg C			
Cooling system	Fan forced cooling				
Indications	LEC	: Protect, input audio, output and po	wer		
Dimensions (WxHxD) mm	482 x 44 x 420				
Net weight (kg)	5.90	6.90	6.80		

125W 100V QP2125 250W 100V QP2250 375W 100V QP2375 500W 100V QP2500



QP2000 Series are available with power ratings from 125W to 500W 100V, enhanced with various controls and protections for reliable performance. It is digitally controlled, enabling it to be monitored and controlled remotely via RS485. PMX LAN software can be incorporated in your PA system for remote setting and monitoring of QP amplifiers.

A distinctive feature would be its Auto Fault Sensor (AFS) and internally built Amplifier Fault Changeover relay (AFX). The amplifier shall self monitor through self generated Pilot Tone, and if fault is detected, changeover to standby amplifier shall be initiated. This is to ensure smooth operation of your system. An innovative feature for cost saving and uninterrupted operation.

Packing information

Carton size : 550 (L) x 465 (W) x 180 (H) mm

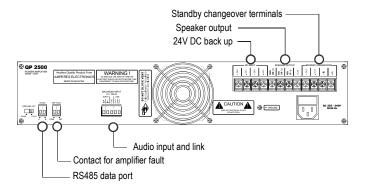
Gross weight:

QP2125 : 13.50 kg QP2250 : 14.60 kg QP2375 : 18.00 kg QP2500 : 19.90 kg

1 unit per carton

Features

- Available in 125 / 250 / 375 / 500W 100V line output in compact 2hu height
- In rush current limiter
- Digital setting for various control features such as bass, treble, fan speed, etc.
- Built in Auto Fault Sensor and Changeover relay for standby fault changeover
- Overload, thermal cut off, short circuit and fuse protections
- Fan speed option ensures longer lifespan of the unit
- RS485 data port for remote monitoring
- AC and DC operation for uninterrupted operation during power failure



	QP2125	QP2250	QP2375	QP2500		
Ratings (rms) 100V output	125 W	250 W	375 W	500 W		
Operating voltage		220 ~ 240 V AC or 24 V I	DC back up supply			
Power consumption (240V ac)	294 VA (1.1 A)	447 VA (1.7 A)	749 VA (2.9 A)	873 VA (3.3 A)		
Current consumption (24V DC)	5.9 A	10.6 A	16.7 A	19.6 A		
Standby current (24V DC)		0.7 A		0.9 A		
Input signal (sensitivity)		1V (+4 dBU) / 10 k Ohr	n via Phoenix connectors			
Input gain controls		-40 to	+4 dBU			
Outputs		70 / 100V lin	e and 4 Ohm			
4 Ohm output voltage	22.3 V	31.6 V	38.7 V	44.8 V		
Output impedance (max load)	80 Ohm	40 Ohm	27 Ohm	20 Ohm		
Frequency response		70 - 15 kHz @	1 kHz +/- 3dB			
S/N ratio		> 70 dB @) 1 kHz, 1V			
THD + N		< 0.	18 %			
Protections		Thermal, short circuit, ove	rload, fuse, in-rush current			
Cut off temperature		75 d	leg C			
Cooling system		Auto temperature controlled cooling fan with auto ON				
Indications	LCD with temp, audio level and address					
Communication	RS485; 19.2 kbps					
Fault sensing	Internal Pilot Tone: 20 kHz, detection at 15 ~ 20 secs, 10 secs interval					
Fault detection response	Standby amplifier relay activation, fault dry contact					
Dimensions (WxHxD) mm	482 x 88 x 335					
Net weight (kg)	11.60	12.70	16.50	18.05		

PA2120 120W 100V PA2240 240W 100V PA2360 360W 100V

PA2480 480W 100V

PA2600 600W 100V

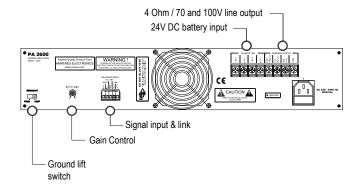


PA2000 Series of power amplifiers has been a workhorse of powering the PA setups for decades. They are available in various power ratings to choose from to suit the loading requirement.

With our continuous product improvement effort, we had improved the performance and reliability in line with ever changing needs of the industry.

Features

- Available in various ratings; from 120W to 600W 70 or 100V line
- 4 Ohm speaker connection available with 25V ~ 48V output
- Thermal protection by muting input signal (typically 75 deg at heat sink)
- Momentary short circuit protection
- In rush current limiter
- Temperature dependent dual speed cooling fan
- Balanced input signal with gain control and selectable grounding option
- AC and DC operation for uninterrupted operation during power failure



Packing information

Carton size : 550 (L) x 465 (W) x 180 (H) mm

Gross weight:

PA2120 : 13.10 kg PA2240 : 13.85 kg PA2360 : 17.40 kg PA2480 : 19.65 kg PA2600 : 21.30 kg

1 unit per carton

	PA2120	PA2240	PA2360	PA2480	PA2600
Ratings (rms) 100V output	120 W	240 W	360 W	480 W	600 W
Operating voltage		220 ~ 24	40 V AC or 24 V DC back u	ip supply	
Power consumption (240V ac)	255 VA (1.0 A)	497 VA (1.9 A)	731 VA (2.8 A)	996 VA (3.8 A)	1069 VA (4.1 A)
Current consumption (24V DC)	6.1 A	10.6 A	16.3 A	22.3 A	23.1 A
Standby current (24V DC)	0.2	2 A	0.3 A	0.	4 A
Input signal (sensitivity)		1V (+4 dBI	U) / 10 k Ohm via Phoenix	connectors	
Input gain controls	-40 to +4 dBU				
Outputs	70 / 100V line and 4 Ohm				
4 Ohm output voltage	22 V	31 V	38 V	43.8 V	48 V
Output impedance (max load)	83 Ohm	42 Ohm	27 Ohm	20 Ohm	16.6 Ohm
Frequency response		7	70 - 15 kHz @ 1 kHz +/- 3d	В	
S/N ratio			> 70 dB @ 1 kHz, 1V		
THD + N			< 0.18 %		
Protections	Thermal, short circuit, overload, fuse, in-rush current				
Cut off temperature	75 deg C				
Cooling system	Auto temperature controlled cooling fan				
Indications	LED : Power, Signals				
Dimensions (WxHxD) mm	482 x 88 x 335				
Net weight (kg)	11.40	12.35	16.20	17.95	19.60





60W 100V Line MA2006
120W 100V Line MA2012
240W 100V Line MA2024
360W 100V Line MA2036

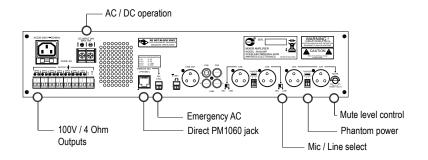
MA2000 Series of mixing amplifiers has been further improved with higher power ratings and better sound reproduction by incorporating high efficiency Class D amplifier circuits. The overall size and weight had also been further reduced for more efficient space usage.

It is suitable for small setups such as showrooms, retail outlets, function rooms and prayer halls. Each unit has 6 zones outputs which can be easily connected to PM1060 paging mic with RJ45 jack.

 $\,$ MA2000P is a series with media player module consisting USB / SD card MP3, bluetooth and FM tuner.

Features

- High efficiency Class D power amplifier technology
- 6 mic / line selectable inputs, with front mic jack, phantom power
- Priority muting for mic input 1 with adjustable muting level
- 6 zone speaker output with All Call and remote trigger port
- 100V line output with aux 4 Ohm speaker terminal
- Bass and treble tone controls
- Optional media player module
- AC and DC operation for uninterrupted operation during power failure



Packing information

Carton size : 555 (L) x 295 (W) x 165 (H) mm

Gross weight:

MA2000 : 5.45 kg MA2000P : 5.50 kg

1 unit per carton

Optional rack mounting bracket available

	MA2006 / 2006P	MA2012 / 2012P	MA2024 / 2024P	MA2036 / 2036P	
Ratings (rms) 100V output	60 W	120 W	240 W	360 W	
Operating voltage		220 ~ 240	V AC		
Power consumption (240V AC)	115 W / 0.5 A	160 W / 0.7 A	285 W / 1.2 A	450 W / 1.9 A	
Input - Ch 1 and 2	Balanced	Mic input with 12V Phantom Pov	ver (10 k Ohm) ; Adjustable mut	e priority	
Ch 3 and 4	Balanced Mic	/ Line selectable with 12V Phant	tom Power (Mic : 10 k Ohm, Line	: 15 k Ohm)	
Ch 5 and 6		Unbalanced input (1	5 k Ohm) RCA 0 dBV		
THD + N (at rated power)		< 0.0	02 %		
S/N ratio		> 68	3 dB		
Tone controls		Bass (100 Hz), Trebl	le (10 k Hz) +/- 15 dB		
Frequency response		120 - 20 k H	z (+/- 3 dB)		
Signal output		0 dBU bal	anced line		
Zone output		6 zone : Front switch and re	mote paging mic with All Call		
Power output -					
4 Ohm @ 1V rms input		50 V	/ rms		
100 V @ 1V rms input		100\	/ rms		
Protections		Thermal, short circu	uit, AC and DC fuses		
Indications	Power, zone selection, signal level				
Cooling system	Thermostat controlled fan at 45 Deg C				
Dimensions (WxHxD) mm	434 x 88 x 200 (without bracket)				
Net weight (kg)	4.35 kg / 4.40 kg (P version)				



MC2106 60W 100V Line MC2112 120W 100V Line MC2124 240W 100V Line MC2136 360W 100V Line





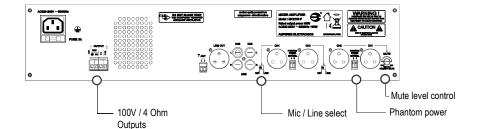
Features

- High efficiency Class D power amplifier technology
- 6 inputs with front mic jack and phantom power
- Priority muting for mic input 1 with adjustable muting level
- 100V line output with aux 4 Ohm speaker terminal
- Bass and treble tone controls
- Optional media player module

MC2000 Series of basic mixing amplifiers has been further enhanced with Class D amplifier technology, known for its better efficiency, wider frequency band light weight and compacted in size.

It is suitable for small setups such as showrooms, retail outlets, function rooms and prayer halls.

MC2000P are units with media player module with USD / SD card MP3 playback, bluetooth and FM tuner.



Packing information

Carton size: 555 (L) x 295 (W) x 165 (H) mm Gross weight:

MC2100 : 4.45 kg MC2100P : 4.50 kg

1 unit per carton

Optional rack mounting bracket available

	MC2106 / 2106P	MC2112 / 2112P	MC2124 / 2124P	MC2136 / 2136P
Ratings (rms) 100V output	60 W	120 W	240 W	360 W
Operating voltage		220 ~ 240	V AC	
Power consumption (240V AC)	115 W / 0.5 A	160 W / 0.7 A	285 W / 1.2 A	450 W / 1.9 A
Input - Ch 1 and 2	Balanced	Mic input with 12V Phantom Pov	wer (10 k Ohm) ; Adjustable mut	e priority
Ch 3 and 4	Balanced Mic	/ Line selectable with 12V Phan	tom Power (Mic : 10 k Ohm, Line	: 15 k Ohm)
Ch 5 and 6		Unbalanced input (1	5 k Ohm) RCA 0 dBV	
THD + N (at rated power)		< 0.1	02 %	
S/N ratio		> 68 dB		
Tone controls	Bass (100 Hz), Treble (10 k Hz) +/- 15 dB			
Frequency response	120 - 20 k Hz (+/- 3 dB)			
Signal output	0 dBU balanced line			
Power output -				
4 Ohm @ 1V rms input	50 V rms			
100 V @ 1V rms input	100V rms			
Protections	Thermal, short circuit, AC and DC fuses			
Indications	Power, signal level			
Cooling system	Thermostat controlled fan at 45 Deg C			
Dimensions (WxHxD) mm	434 x 88 x 200 (without bracket)			
Net weight (kg)	3.40 / 3.45 (P version)			

8 Duty / 1 Standby Manual Amplifier Changeover



AC3801 is a manual amplifier changeover panel with capacity of 8 duty power amplifier inputs and 1 standby. It has dual mode of changeover, one being manually pressing the front switch to perform standby takeover and the other through dry contact trigger at the back of the unit. This shall make it suitable for power amplifiers with auto fault sensing such as Amperes QP Series or other makes with failure dry contacts.

The changeover will only take place for one duty at any one time to prevent amplifier overload and channels are assigned with priority to allow amplifiers with important zones having priority.

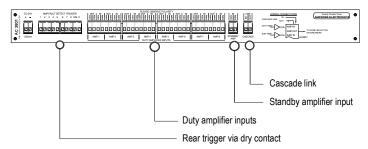
Features

- Cater for 8 duty and 1 standby amplifier
- Expandable for 1 standby to serve more than 8 duty units
- Overload protection by allowing only a single take over
- Prioritized changeover unit with higher number is preferred for changeover
- Manual front panel and rear triggering changeover selection
- Suitable for any amplifiers in the market

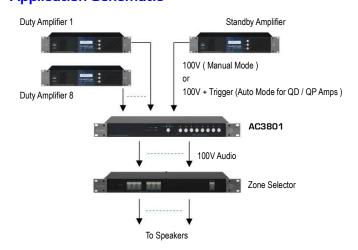
Technical Specifications

Operating voltage	24V DC ; 0.2A	
Power consumption	Standby: 82mW, 3.4 mA	
	Operating: 1.3W, 50 mA	
Zone load rating	500W / 100V line input (1000W available on request)	
No of amplifier inputs	8 duty, 1 standby	
Changeover indication	Front panel LED for duty amplifier being Changeover	
Switching mode	Via front panel switches (manual mode)	
	Remote trigger (auto mode)	
Cable connections	Phoenix connectors	
Cascade capacity	Unlimited (Recommended 3)	
Cable size	Up to 2.5 mm sq	
Dimension (W x H x D)	482 x 44 x 180 mm	
Weight	1.95 kg	
Colour	Black, powder epoxy coated	

Rear View:



Application Schematic



AC3801 is a dual mode changeover device, works as manual for normal power amplifiers and auto for amplifiers with Auto Fault Sensors with triggering contacts

Packing information

Carton size :555~(L)~x~295~(W)~x~95~(H)~mm

Gross weight : 2.55 kg 1 unit per carton



AX3800 8 Duty / 1 Standby Auto Amplifier Changeover Panel

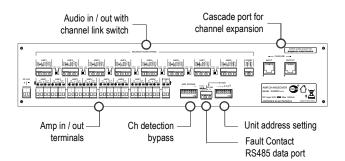




AX3800 has been improved further, offering greater flexibility and simplicity for amplifier fault changeover setup. Cascading is now made easier to enable 1 standby to cater for 16 duty power packs.

With precise circuit design, amplifier fault detection period is greatly reduced to initiate timely changeover to standby unit. The internal pilot tone generation at 20KHz is set at optimum interval to avoid unnecessary loading to amplifiers.

Changeover shall occur at both input and output of amplifiers, making it suitable for application in a matrix system. Priority and single changeover ensures overloading of standby amplifier is avoided, thus providing a reliable and uninterrupted system at most times.



Technical Specifications

Operating valters

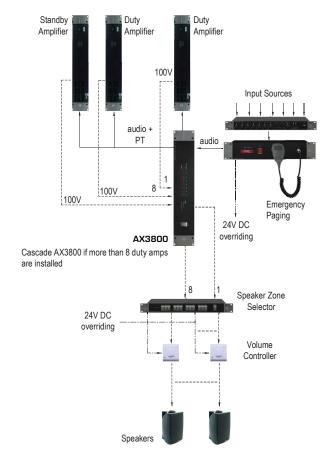
Operating voltage	24V DC ; 1A
Power consumption	2.5 W (0.11 A)
Standby consumption	2.3 W (0.95 A)
Input signal	8 Ch balanced line signal
Input impedance	10 k Ohm
Audio output gain	Unity
Pilot tone interval	8 seconds / channel
Pilot tone frequency	20 k Hz (+/- 5%)
Detection line	70 / 100 V line
Detection level	5 V rms min
Failure detection time	20 seconds (max)
Failure recovery time	20 seconds (max)
Zone load rating	1000W 100V line max
Status indication LED	Normal ; Fault ; Changeover
Changeover alert	Buzzer with switch
Changeover section	Input and output simultaneously
Dimensions (WxHXD)	482 x 88 x 180 mm
Weight	3.55 kg

241/ DC - 14

Features

- Cater for 8 duty and 1 standby
- Expandable for 1 standby to cater for more than 8 duty amps.
- Built in Pilot Tone generator, transmit at intervals and senses at sequence to protect amplifiers
- Overloading protection by allowing only a single take over
- Prioritised changeover which higher numbered amplifier shall be preferred for take over if more than two units are down
- Short fault detection time from 7 to 15 seconds
- Changeover at input and output section simultaneously; suitable for matrix system installations
- Input link switch; making connection of sources easier
- Channel isolation switch for unused or un-monitored channel
- Individual channel status indicators; normal, fault and changeover

Application Schematic



Packing information

Carton size $: 555 (L) \times 295 (W) \times 165 (H) mm$

Gross weight: 4.50 kg

1 unit per carton

MONITORING AND CHANGEOVER

8 Ch Speaker Line Surveillance LS4808

16 Ch Speaker Line Surveillance LS4816



LS4808 offers 8 channels of speaker line monitoring while LS4816 has 16 channels. LS Series is a great tool of monitoring the speaker line integrity such as ground leakage, short and open circuit via impedance measurement method. End of Line resistors are not required and circuit branching is allowed, thus allowing a more flexibility in cabling works.

LS is powered by powerful processor and its unique measurement algorithm enables it to perform tasks at high speed with optimum accuracy. Setup is simple but for the more advanced requirement, LS also allows deviation limits, useful for more sensitive installations, such as power plants, military, etc.

It can be installed to run at intervals with user setting or link to a timer for specific time operation, to avoid disturbances to occupants of the building.

Features

- 8/16 channel speaker line monitoring with basic and advance level setup
- Impedance measurement method allowing cabling branching and no end of line resistors or coupling capacitors.
- Short burst test signal, minimizing interruption to PA operation
- Detection interval setting from 1 min to 48 hours with ad hoc testing trigger
- Faulty circuit isolation option
- Fault alert indicators and user friendly setup menu
- Built in impedance meter, range from 10 Ohm to 10 K Ohm
- Aux 24V DC output for volume controller overriding during testing mode

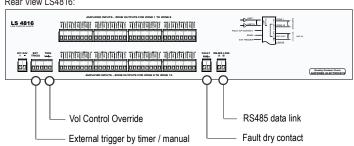
Technical Specifications

	LS4808	LS4816	
Operating voltage	24V DC via PS9400		
Power consumption	3.8W	4.9W	
Capacity	8	16	
Impedance detection range	10 to 10	K Ohm	
Power measurement range	10 to 1000	W 100V line	
Measurement accuracy	+/- 3% w	ithin range	
Pilot tone injection frequency	1 kl	Hz	
Pilot tone signal output level	5V sine		
Monitor triggering	Auto / remote trigger		
Transmittal detection period	0.5 seconds per channel (max)		
Detection interval	User preset from 1 min to 48 hrs		
Sensitivity setting	User preset at each channel		
Indicators - LED	Normal, Fault, Buzzer, Auto run		
Display LCD	2 x 16 characters w back light		
Audible output signal	Continuous buzzer with Off option		
Dry contact setting	3A		
DC output in detection mode	24V DC for individual channel		
Data interface	RS485 : 19.2 kbps		
Dimensions (W x H x D)	482 x 44 x 180 mm	482 x 88 x 180 mm	
Weight	2.15kg	3.25kg	

Rear View LS4808:



Rear View LS4816:



Please refer to schematic diagram available in manual for configurations

Packing information

Carton size : LS4808 : 555 (L) \times 295 (W) \times 95 (H) mm LS4816 : 555 (L) \times 295 (W) \times 165 (H) mm

Gross weight : LS4808 : 2.75 kg

LS4816: 4.00 kg

1 unit per carton



AMP MONITOR PANEL / SOURCE SELECTOR

AM4120 12 Ch Amplifier Monitor Panel



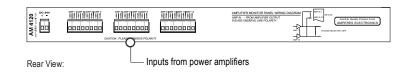
AM4120 shall be used to monitor amplifier outputs of 70 / 100V line at the rack which is equipped with level meter, amplifier output LED and speaker for audio monitoring. It can also be used as a tool to calibrate sound output level of each amplifier from the rack.

Technical Specifications

Operating voltage	24V DC via PS9400 PSU
Power consumption	50 mW
Amplifier inputs	12 : 70 / 100V line
Monitoring mode	Audio: 1W speaker with 5 presets
	Visual : segment LED level meter
	LED for all channels
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.15 kg

Features

- 12 inputs for 70 / 100V line amplifier outputs
- Dual mode monitoring with continuous signal indicator
- Audio monitoring with volume control





Packing information

Carton size : 555 (L) \times 295 (W) \times 95 (H) mm Gross weight : 2.80 kg 1 unit per carton

SS6401 Audio Source Selector



SS6401 has 4 BGM source inputs via RCA jack with mono output suitable for PA system. Input channels of different BGM output sources with different line level has been equalized to the same level at output to avoid the trouble of adjusting the mixer gain whenever a source is changed.

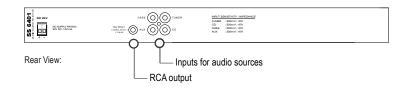
Features

4 input BGM sources

Input level balancing for constant output

Technical Specifications

Operating voltage	24V DC via PS9400 PSU		
Power consumption	3.6 W ; 0.15 A		
Input connections	RCA mono		
Input level / impedance	CD : 2V / 47 k Ohm		
	Tuner : 600 mV / 10 k Ohm		
	Cass : 500 mV / 10 k Ohm		
	Aux : 1.25 V / 20 k Ohm		
Output connection	RCA mono ; 1V 600 Ohm		
Gain / attenuation	CD:-6 dB, Tuner: 4 dB		
	Cass : 6 dB, Aux : - 2 dB		
Selection	Daisy chain		
Dimensions (W x H x D)	482 x 44 x 180 mm		
Weight	1.8 kg		



Packing information

Carton size : 555 (L) \times 295 (W) \times 95 (H) mm Gross weight : 2.50 kg 1 unit per carton



SPEAKER ZONE SELECTOR

6 Ch Speaker Zone Selector ZS5601

12 Ch Speaker Zone Selector ZS5121

6 Ch Uninterrupted Speaker Zone Selector ZS5602



ZS5601 and ZS5121 are trusted products for speaker zone selection that provides direct zone switching for single source PA setup via front panel switches or through remote port connected to Amperes PM Series paging desk, or through Amperes TD decoders. Other brands of paging consoles are compatible with ZS provided they have negative triggering switching ports.

ZS5602 shall be suitable for uninterrupted paging setup, ie. when an announcement to a zone is made, other areas with BGM that shall not be interrupted. This will require two sets of amplifiers connected to the ZS5602, thus the system shall consist of two sources, one being BGM and the other as Paging.

Features

- Available in 6 (ZS5601, 5602) and 12 zones (ZS5121) with ALL CALL
- Expansion to more zones if required
- Remote zone triggering port via external paging microphone or console
- Paging override by Amperes paging console with Priority override indicator
- Emergency paging mic triggering port with dry contact for volume controller overriding application
- Flexible amplifier to zone configuration, suitable for 3 or 4 wire systems

Technical Specifications

	ZS5601	ZS5121	ZS5602	
Operating voltage	24V DC adaptor via PS9400			
Power consumption	3.5W, 0.14A w All Call	6.8W, 0.28A w All Call	10W, 0.42A w All Call	
Max load / channel		500W at 100V line		
Number of zones	6	12	6	
Amplifier inputs	6	12	6 BGM ; 6 Paging	
Zone selection - Paging	Fro	Front panel switch and remote		
Zone selection - BGM		Front panel switch		
Cascade limitation		Unlimited		
Remote triggering	-ve triggered (common ground)			
Indicators	Individual zone switch, Priority Zone LED		Zone LED	
Switching mode	Individual, All Call Individual. All Call		Individual. All Call	
	Local zone selection bypassed when remote			
	trigger is activated			
Dimensions (W x H x D)		482 x 44 x 180 mm		
Weight	1.95 kg	2.10 kg	2.20 kg	

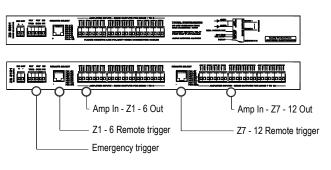
Packing information

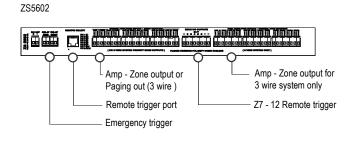
Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : ZS5601 : 2.55 kg ZS5121 : 2.70 kg ZS5602 : 2.70 kg

1 unit per carton

Rear Views ZS5601 & 5121







SPEAKER ZONE SELECTOR

ZS5062 6 Ch Speaker Zone Selector ZS5122 12 Ch Speaker Zone Selector





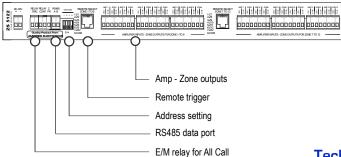
ZS5062 and ZS5122 have been improved in its individual zone rating with 1000W 100V line to meet the demand to increase zone loading in today's installations.

They differs from other zone selector, ie. they have fail safe feature which would ensure zone is always connected for paging if the unit itself failed. RS485 port is available for remote triggering and monitoring via PMX software.

 ${\sf ZS5062}$ or ${\sf ZS5122}$ can be stacked to form larger zone setup in big installations.

Features

- Available in 6 and 12 zones; expandable to 192 zones
- 1000W 100V per zone rating
- Fail safe zone trigger during power or unit failure
- Remote zone triggering via analogue and RS485 data
- Zone monitoring via PMX II software
- Local paging override bypassing BGM
- Flexible amplifier to zone configuration



rear view of ZS5122

Please refer to TD6240 brochure for schematic

Technical Specifications

	ZS5062	ZS5122
Operating voltage	24V DC via PS9400	
Power consumption (idle)	3.29 W	6.25 W
Power consumption (All Call)	0.72 W	0.96 W
Current consumption (idle)	0.14 A	0.26 A
Current consumption (All Call)	0.03 A	0.04 A
Max load / channel	1000W 100V line	
Number of zones	6	12
Amplifier inputs	6	12
Zone selection	Front panel switch & remote (zone & all call)	
Max cascade	16 units	
Remote triggering - Ve trig		ommon ground)
Indicators	Individual zone switch	n, all call and priority
Data communications	RS485 : 19.2 k	bps baud rate
Switching mode	Individua	I, All Call
	Local zone bypassed wher	remote trigger is activated
Operating temperature	- 10 ~ 60 deg C	
Dimensions (W x H x D) mm	482 x 44 x 180 (1 hu)	
Weight (kg)	1.95	2.10

Packing information

Carton size : 555 (L) $\times 295$ (W) $\times 95$ (H) mm Gross weight : ZS5062: 2.55 kg

ZS5122: 2.70 kg

1 unit per carton

www.ampereselectronics.com

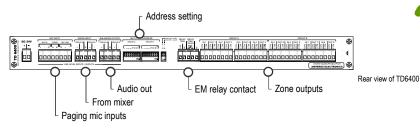


8 Ch Zone Decoder / Selector TD6080 2 x 4 Ch Zone Decoder / Selector TD6400



TD6080 is engineered for convenience where it combines data decoder and zone selector in a single box, which translates to fewer component counts and cabling cost. It is also suitable for decentralised installations of multiple locations, which can communicate with central paging system through RS485 or LAN.

TD6400 works similarly to TD6080, but the output zones are divided further to work with 2 inputs and 4 zones output. It provides more flexibility when working with Matrix Controller (MxP2288) as matrix output zone extender. This shall reduce the number of unused zones in matrix groupings.



Features

- Integrated paging mic zone decoder and zone selector for simplified interconnections
- Works as matrix zone extender
- Multipoint paging input from PD series of paging mics
- 8 input / 8 output configurable amp speaker line connections
- Cascade feature for larger number of zones
- Configurable as group BGM / Paging for matrix setup:

TD6080 : 1 BGM + 1 PD with 1 audio out or TD6400 : 2 BGM + 1 PD with 2 audio out

Technical Specifications

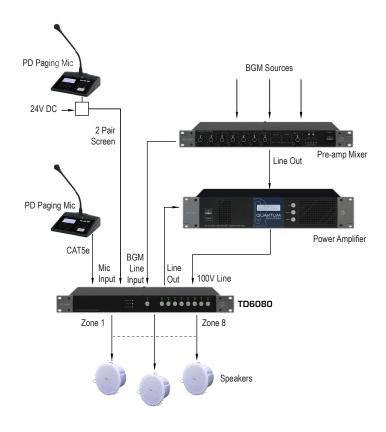
	TD6080	TD6400
Operating voltage	24V DC	
Consumption	6W (250 mA)	
Max load / channels	500W at 1	00V line
Cascade quantity	16 unit (128 zone)	31 (248 zone)
Configuration	1 in x 8 zones	2 in x 4 zones
Input circuits	2:1 mic, 1 BGM	3:1 mic, 2 BGM
Audio Output	1	2
Number of zones	8	
Amplifier inputs	8	
Zone selection	Front panel swi	tch & remote
Indicators	Individual zo	ne switch
Switch mode	Individual, All Call Lo	cal zone selection
	bypassed when remote	e trigger is activated
AUDIO		
Input impedance (Ohm)	Line: 10 K	
Output impedance	Output impedance 600 Ohm balanced	
Freq response	70 ~ 15	KHz
Audio input	Line	
Max audio output	Line 1.2V (b	palanced)
DATA		
Data protocol	RS4	35
Baud rate	19.2 kbps	
Dimension (W x H x D)	482 x 44 x	180 mm
Weight	2.00	kg

Packing information (TD6080 & TD6400)

Carton size :555~(L)~x~295~(W)~x~95~(H)~mm

Gross weight : 2.60 kg 1 unit per carton

Application Schematic



Typical configuration of TD6080 as zone decoder ${\it / }\,$ selector.

TD6080 / TD6400 can be used as Matrix zone extender in Matrix output zone grouping. Please refer to schematic available in instruction manual.



PAGING MIC ZONE DECODER

TD6240 24 Ch Zone Decoder

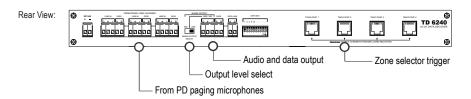


TD6240 is an intermediary equipment between Amperes PD series of paging microphones and Amperes ZS series of speaker zone selectors. It has 3 PD input circuits, enabling multi point paging setup from different areas. Decoded zones are connected to zone selectors through RJ45 jacks for zone switchings.

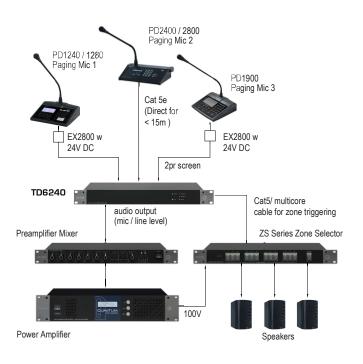
For system exceeding 24 zones, TD6240 can be stacked up to enable 254 zone switchings in total.

Features

- Expandable and addressable to cater for more than 24 zones
- Priority setting for multi point paging setup
- Selectable balanced audio output level (mic or line)
- Compatible with most zone selectors with remote triggering port
- Connects directly to ZS5601 / 5121 / 5062 / 5122 via remote triggering ports using RJ45 connector



Application Schematic



Technical Specifications

Operating voltage	24V DC
Consumption	2.4W (100 mA)
Switching channels	24
Cascade / max zones	8 (max 192 zones)
Input circuit	3
Output connection (Triggering)	RJ45 to ZS zone selector
AUDIO	
Input impedance (Ohm)	Line: 10 K
Output impedance	600 Ohm balanced
Freq response	70 ~ 15 KHz
Audio input	Line balanced (+4 dBU)
Max audio output	Line balanced (+4 dBU)
DATA	
Data protocol	RS485
Baud rate	19.2 kbps
Dimension (W x H x D)	482 x 44 x 180 mm
Weight	1.90 kg

Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight : 2.45 kg 1 unit per carton



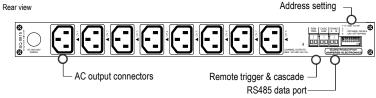
POWER DISTRIBUTIONS

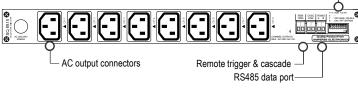
8 Ch Sequential Power Switcher SQ9815



Features

- 8 channel with 6A per channel; total load of 15A with surge protection
- Cascade 2 units to form 16 channel setup
- ON / OFF sequential switching
- Remote switching port via external noiseless contact
- AC output through IEC connectors with channel isolation via DIP switch
- Ch. 8 with delay Off option for 2 min; suitable for video projector connection
- Lock mode to avoid accidental switching





Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 3.55 kg 1 unit per carton

SQ9815 is suitable for applications in PA, sound and AV systems, in which it manages the powering sequence of every equipment in an orderly manner. Random power switching of components within a system may cause damage to the equipment and thus SQ9815 is a tool of powering protection.

It also has built in surge protectors to kill harmful incoming power spikes.

Technical Specifications

Operating voltage	220 - 240V AC
Power consumption	50 mW (without load)
Output voltage	230 / 240V AC
Max load / channel	6A
Max total load	15A
Output connection	IEC female socket
Max cascade	2 uts : total 16 channels
Surge protection	L-N, L-E, N-E.
Clamping voltage	870V AC
Turn on sequence	Step 1 to 8 incremental
Turn off sequence	Step 8 to 1 decremental
Step timing	2 seconds
Delay off option	Channel 8 via DIP switch
Delay off timer	2 minutes
Switch lock	Via front switch
Indicators	AC mains, Ch. on, Lock
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.80 kg excl. accessories

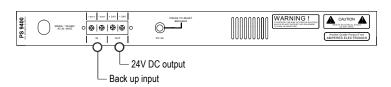
PS9400 is a rack mounted 24V DC regulated power supply designed for PA installations. It has built in changeover relay which shall be connected to back up 24V DC battery bank to allow continuous and uninterrupted power supply to the whole installation whenever the mains failed.

24V DC Power Supply PS9400



Features

- 24V DC 4A output highly regulated PSU
- Output Fuse protection
- Built in various protections
- Back up battery overriding relay



Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 3.00 kg 1 unit per carton

Operating voltage	220 - 240V AC
Output voltage	24V +/- 1 %
Rating	4A nominal; max 5.5 A
No load consumption	50 mW
Efficiency	83 %
Indicators	AC mains, battery input, DC output
Protection	Built in surge protection
	Short circuit
	Overload (105% ~ 150%)
	Over voltage (115% ~ 135%)
Output DC protection	Fuse
Terminals	Batt input and load; barrier connectors
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.35 kg

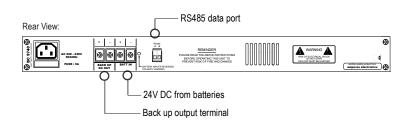
BC9740 24V DC Automatic Battery Charger

BC9740 is the next generation of innovative Battery Charger, which has been engineered to meet the requirement of installers and users alike. It is compact in 1 HU height, built with the latest technology for efficient charging, controls and monitoring purpose. Driven by powerful ARM processor, it works to protect against connection error, prolonging battery life with its battery monitoring feature and communicates to provide human interaction. RS485 data port is available for external monitoring via PMX II Software and can be readily linked up to LAN through iPX5500 Com Box.



Features

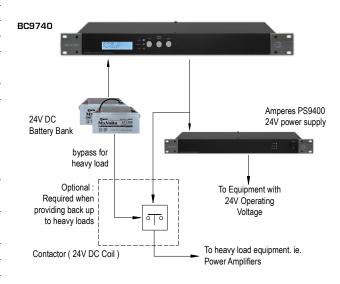
- Constant DC voltage charging for 24V battery bank
- 4A initial charging current with reducing rate over charging time
- Built in surge protection
- Output short circuit protection
- Thermal protection against overheating
- Auto low battery disconnection with LCD indication
- Battery reversed polarity protection
- Rear mains switch to avoid unnecessarily switching off the unit
- RS485 communication for remote monitoring via PMX LAN software



Technical Specifications

27.8V DC 4A; (max 5A) 1.3W
1.3W
Low battery auto disconnection, reverse polarity, short
circuit
AC mains, short circuit and low battery
Charging current
Charging voltage
Battery voltage
Output current
Battery reverse polarity
RS485 out; link to Amperes PMX LAN via
iPX5500 comm. box for remote monitoring
25A max
(Use external contactor / relay if required)
Battery input , EM load
482 x 44 x 180 mm
4.50 kg

Application Schematics



Packing information

Carton size : 555 (L) x 295 (W) x 95 (H) mm

Gross weight: 5.20 kg 1 unit per carton