PD1900 features 7" capacitive touch screen panel with 800 x 480 pixel resolutions and loaded with multiple attractive user interfaces, providing contemporary outlooks with easy of use.
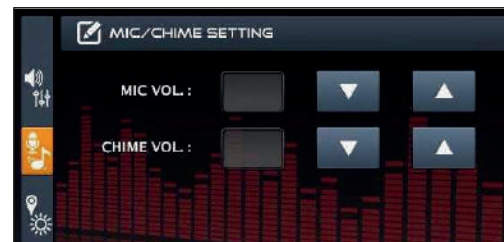
It is compatible with all zone decoders and matrix controller MxP2288. Settings such as volume, priority, device naming and chime are all performed at the user friendly UI.

- 7" capacitive colour **touch screen** panel
- **Zone grouping**
- Built in programmable **chime setting**
- **Device naming**

Technical Specifications

Operating voltage	24V DC via EX2800 with local power adaptor
Power consumption (24V DC)	1.3 W
Zone selection	Numerical keypad with grouping, all call
Microphone	Gooseneck condenser capsule, cardioid
Output impedance	600 Ohm
Output level	1.2 V balanced line out (+4 dBU)
Output controls	Chime and mic volume
Data connections	RS485; 19.2 kbps
Cabling to decoder	2 pair screen: 22 AWG / Cat5e
Recommend operating distance	300 m, subjected to cable size
Compatible interface device	MxP2288, TD6240, TD6080, TD6400, iPX5155
Chime	Programmable 4 tone Up / Down
Indicators	Zone, power, audio, data, gooseneck mic ring LED
Displays / panel	7" capacitive touch screen, 800 x 480 pixels
Frequency response	100 - 12 KHz 2 1 KHz +/- 3dB
S/N ratio	>65 dB @ 1KHz
Gooseneck mic length	370 mm
Dimensions (W x H x D)	230 x 192 x 65 mm (excluding mic)
Weight	0.95 kg

Packing Information

Carton size : 525 (L) x 270 (W) x 85 (H) mm

Gross weight : 2.10 kg (adaptor included)

1 unit per carton

PD1240 PD1280
PD Series with Soft Touch Keys
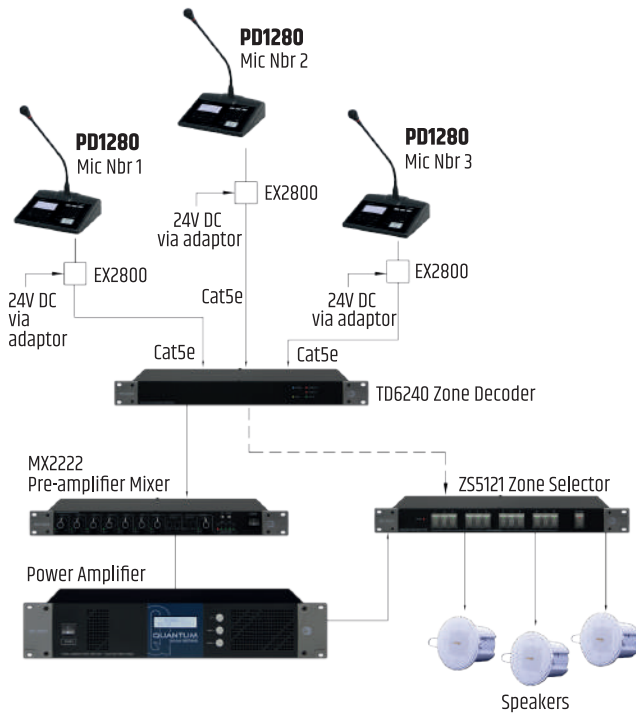
- **Soft touch** keys with no mechanical switch failure
- **LED** indicators (PD1240) and **LCD** display (PD1280)
- **Name setting** at PD1280
- Built in chime with **selectable tones** for PD1280
- **Volume controls** for chime and paging

PD1240
24 Ch Desktop Paging Microphone

PD1280
Desktop Paging Microphone

PD1240 & PD1280 are the two of the most popular paging microphones that incorporate soft touch buttons and improved sound quality. All essential features such as priority level assignment, multi-point paging, illuminated gooseneck microphone and volume controls are included.

Application Schematic

PD1280 Mic Nbr 2

PD1280 Mic Nbr 1

PD1280 Mic Nbr 3

EX2800

24V DC via adaptor

EX2800

EX2800

24V DC via adaptor

Cat5e

24V DC via adaptor

Cat5e

Cat5e

TD6240 Zone Decoder

MX2222 Pre-amplifier Mixer

ZS5121 Zone Selector

Power Amplifier

Speakers

Technical Specifications

	PD1240	PD1280
Operating voltage	24V DC via EX2800 with local power adaptor	
Power consumption	1.2 W	1.3 W
Zone selection	24 zone keys, Group, All Call	Numerical keypad with Group, All Call
Switching selection	Sensor touch keypad	
Microphone	Gooseneck condenser capsule ; unidirectional	
Output impedance	600 Ohm	
Output level	1.2 V balanced line output (+4 dBU)	
Output controls	Chime and mic volume	
Data connections	RS485; 19.2 kbps	
Cabling to decoder	2 pair screen: 22 AWG / Cat5e	
Recommended inst. distance	500 m max (18 AWG cable)	
Compatible interface device	MxP2288, TD6240, TD6400	
Chime	4 tone up and 4 tone down	
Indicators	Zone, power, audio, data, gooseneck ring LED	
Displays	NIL	LCD display ; white back illumination
Frequency response	100 - 12 KHz @ 1 KHz +/- 3dB	
S/N ratio	>65 dB @ 1KHz	
Gooseneck mic length	370 mm	
Dimensions (W x H x D)	230 x 192 x 65 mm (excluding mic)	
Weight	0.75 kg	0.85 kg

PM1010 PM1030
Desktop Paging Microphone

PM1010
Desktop Paging Mic

PM1030
Desktop Paging Mic with Chime

PM1010 is a basic version with simple press to talk without chime whereas **PM1030** comes with pre-announcement chime, paging contact and chime volume controls, which is designed for commercial applications. Both models had been tuned to perform better than its predecessors and shall be the right choice for your paging needs.

- **Contemporary** design
- **Dry contact** available for PM1030
- **Illuminated LED** ring gooseneck microphone
- **Line** level output, suitable for most mixing amps
- 4 tone **chime** for PM1030
- Adjustable **volume controls** for chime and microphone

Technical Specifications

	PM1010	PM1030
Operating voltage	24V DC	
Power consumption	0.8 W	1.3 W
Indicators	Active & Gooseneck mic ring LED	Power, Active, Gooseneck mic ring LED
Microphone system	Condenser microphone, cardioid	
Dry contact	-	3A max
Audio		
Mic sensitivity	-72 dB Omni directional	
Output impedance	Line: 300 Ohm , Mic: 50 Ohm	
Frequency response	200 Hz - 11 KHz (+/- 3 dB)	
S/N ratio	80 dB +/- 10% @ 1 KHz	
THD + Noise	<0.2%	<0.1%
Output controls	Mic	Chime, Mic
Audio output	Line output; 1.2V rms balanced , Mic: 70 mV rms balanced	
Communication		
Cable	2 m RJ45 connection at external box	
Output connection	5 way connector at external box	
Gooseneck mic length	370mm	
Dimensions (W x H x D)	160 x 50 x 120 mm (excluding mic)	
Weight	380 g	400 g

Packing Information

Carton size : 465 (L) x 240 (W) x 85 (H) mm

Gross weight : PM1010 - 1.40 kg (adaptor included)
          : PM1030 - 1.45 kg (adaptor included)

1 unit per carton

PM1060
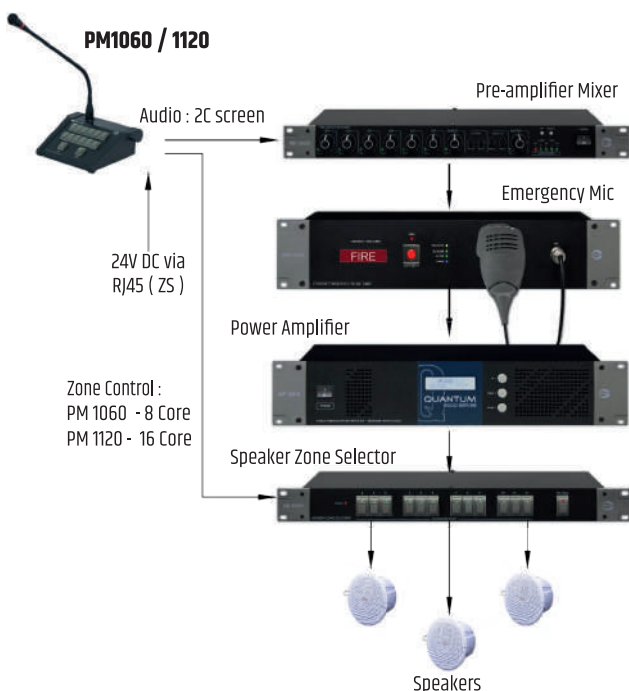6 Ch Desktop Analogue Paging Microphone

PM1120
12 Ch Desktop Analogue Paging Microphone

PM1060 & PM1120 had been serving the need of paging for decades faithfully. They are available in 6 and 12 zone versions with built in chime, catering the need of small and simple applications. They can be plugged directly into MA series of mixing amplifiers for announcement with zone selection.

- **6 or 12** zone selection
- Pre and post announcement 4 tone **chime**
- **Condenser** gooseneck microphone with illuminated ring
- Adjustable chime and mic **volume** with balance mic / line output level
- **Output level selection** to mic or line signal to suit the input type of the preamplifier mixer

Application Schematic

PM1060 / 1120

Audio : 2C screen

Pre-amplifier Mixer

Emergency Mic

24V DC via RJ45 (ZS)

Power Amplifier

Zone Control :
PM 1060 - 8 Core
PM 1120 - 16 Core

Speaker Zone Selector

Speakers

Technical Specifications

Power requirement	24V DC via RJ45
Power consumption	150 mA
Zone selection	6 and 12 zones w ALL CALL
Microphone	Condenser microphone cardioid
Output impedance	600 Ohm
Output level	1.2 V (line output) / balanced mic (50 mV)
Output controls	Chime and mic level
Audio connection	1/4 " stereo phone jack
Switching connection	RJ45
Operating distance	300 m (max)
Chime	4 tone up and 4 tone down
Indicators	Mic ring, zone switch, ALL CALL
Frequency response	100 ~ 12 KHz @ 1 KHz +/- 3 dB; 0 dB out
S/N ratio	> 60 dB
Gooseneck mic length	370 mm
Dimensions (W x H x D)	150 x 62 x 186 mm (excluding mic)
Weight	800 g - PM 1060 / 850 g - PM1120

Packing Information

Carton size : 525 (L) x 270 (W) x 85 (H) mm
Gross weight : PM1060 : 1.15 kg
PM1120 : 1.20 kg
1 unit per carton
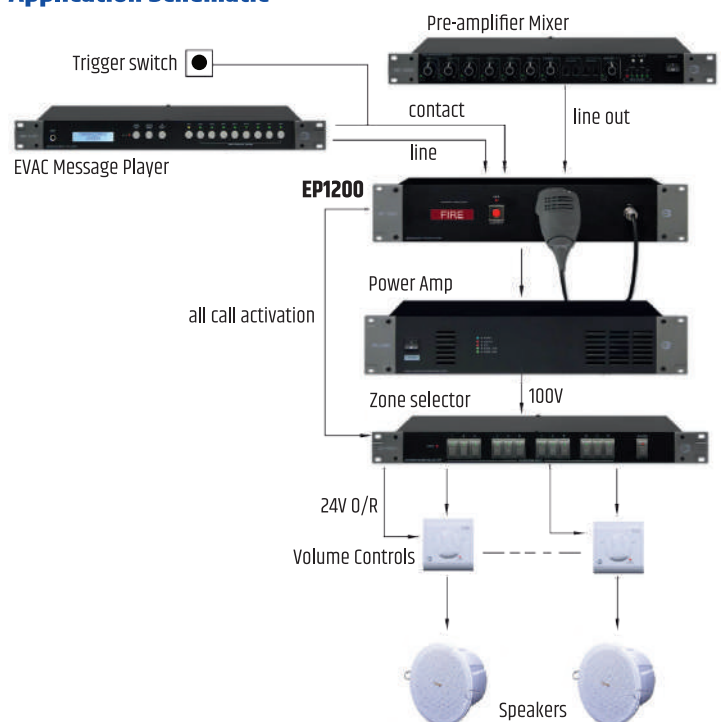
EP1200
Emergency Paging Panel

- Visual **FIRE** indicator
- **Dual mode** siren tone activation
- External **voice message** activation
- **Dry contact** when paging mic is activated
- **Built in siren** tone generator (constant signal)
- **Output level** controls for siren and message / paging microphone
- **Priority paging** via front panel microphone, bypassing all other audio sources

EP1200 Emergency Paging Microphone is one of the most important equipment in PA installation, essential to make highest priority broadcast during emergency situation. It allows direct paging to all zones and bypass any active BGM or normal paging in progress

Technical Specifications

Power requirement	24V DC
Power consumption	3.5W
Microphone	
Mic sensitivity	-72 dB Omni directional
Impedance	600 Ohm
Frequency response	300 ~ 8 KHz
Siren	
Siren frequency	Continuous at 8 KHz
Siren duration	Continuous when activated
Siren activation	Front test switch / remote contact
Input channel	Pre-amplifier output, message recorder
Output level	Balanced line out +4 dBU max
Priority sequence	Paging mic -siren -message -pre amp in
Indicators	Front FIRE with back light illumination
Dimensions (W x H x D)	482 x 88 x 180 mm
Weight	2.80 kg

Application Schematic

Pre-amplifier Mixer

Trigger switch

contact

line out

EVAC Message Player

line

EP1200

Power Amp

all call activation

Zone selector

100V

24V O/R

Volume Controls

Speakers

Packing Information

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

Gross weight : 3.75 kg

1 unit per carton

CD1002   IR1022
Music Source Players

CD1002
Dual Ch Integrated Media Player

improved

CD1002 is a dual channel media player with independent outputs consisting of CD, FM tuner, USB and Bluetooth player in one device. It is suitable for PA setup such as Matrix system and uninterrupted paging. It is now improved with tuner presets of up to 90 channels.

- **Independent** dual outputs
- Plays **various format** of DVD / CD audio, MP3 and USB
- **Bluetooth** ready
- Up to **90 presets** for FM stations

Technical Specifications

Operating voltage	220 - 240V AC
Power consumption	2.5W (240V AC)
Channels	2
Playback media	CD/ DVD/ FM tuner/ USB, MP3, Bluetooth
USB playback format	MP3, WAV
FM preset stations	90
Output	RCA stereo line out (0 dBU, 0.775V)
Frequency response (CD)	20 - 20 KHz
S/N ratio	>80 dB
Distortion	<0.5%, 1 KHz
Working temperature	-10° to 55°C
Humidity	85%
Dimensions (W x H x D)	482 x 44 x 365 mm
Weight	2.70 kg

Packing Information

Carton size : 525 (L) x 368 (W) x 120 (H) mm

Gross weight : 4 kg

1 unit per carton

IR1022
Internet Radio Player

NEW Preliminary Information

IR1022 plays audio streaming of radio stations via Internet for a more stable and clear reception as compared to FM receiver, which is often subjected to location of the installed PA rack. It connects to readily available streaming site via LAN cable or through WIFI.

- Offer more **stability** over FM radio receptions
- **16 preset** channels
- **Friendly UI** for setting
- **Wi-Fi or LAN** cable connections

Technical Specifications

Operating voltage	220 - 240V AC
Power consumption	2.5W (240V AC)
Streaming bandwidth	320 kbps max
File format	MP3
Presets	16
Controls	Front panel button, Web browser
Output	RCA stereo line out (0 dBU, 0.775V)
Frequency response	100 - 18 KHz
S/N ratio	>60 dB
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.40 kg

Packing Information

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

Gross weight : 3.0 kg

1 unit per carton

www.ampereselectronics.com

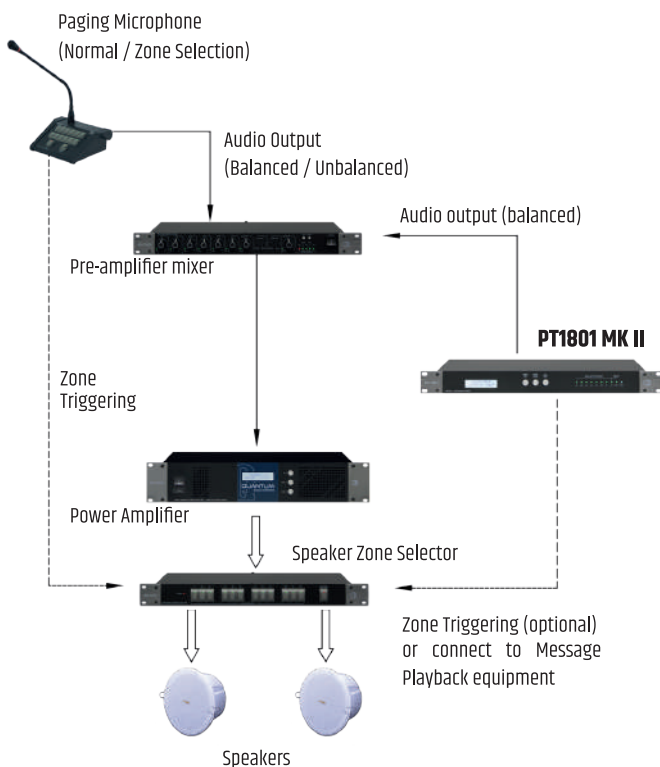# PT1801 MK II
Weekly Programmable Timer

PT1801 MK II has been designed to cater for more sophisticated needs and can be used as conventional timer or to be integrated into Amperes iPX System. Schedules can be played directly to designated iPX5155 / 5455 clients, and whereas in conventional system, the balanced line audio can be fed directly to mixer / mixing amplifier or directly to amplifier.

Playback files can be stored in the device and be readily assigned to programmed schedule, all done via the user friendly UI.

- **LAN** ready for ease of setup and controls via user friendly GUI
- **World clock** sync for time accuracy
- **32 GB memory** bank for files storage
- **1000 presets** with free assignments of time - playback file
- 8 **dry contacts** for schedule activations
- **Compatible** with Amperes iPX system

Application Schematic

Paging Microphone
(Normal / Zone Selection)

Audio Output
(Balanced / Unbalanced)

Audio output (balanced)

Pre-amplifier mixer

PT1801 MK II

Zone
Triggering

Power Amplifier

Speaker Zone Selector

Zone Triggering (optional)
or connect to Message
Playback equipment

Speakers

Technical Specifications

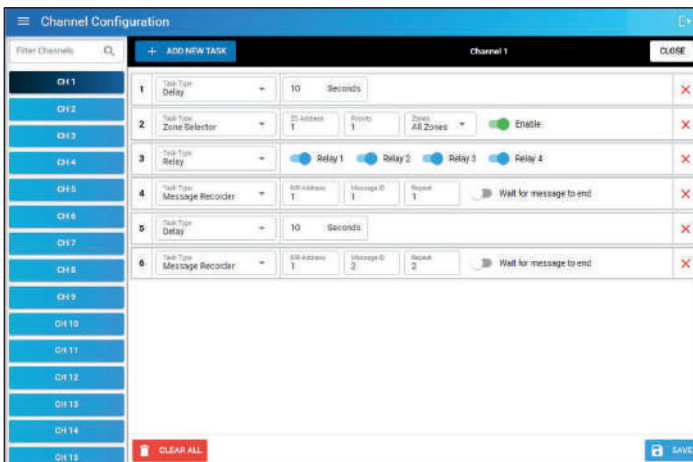|	
Input voltage	24V DC ; 0.5 A
Power consumption	4.8 W
Output channels	8 dry contacts
Output contact rating	3 A
Contact connectors	Phoenix
Output triggering modes	ON, OFF, Pulse (3 seconds)
Output audio	Line out, +4 dBU balanced
Audio connectors	Mini Phoenix connectors
Output impedance	1 k Ohm
Preset 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 (W x H x D)	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 : 2.6 kg

1 unit per carton

FI6000 MKII
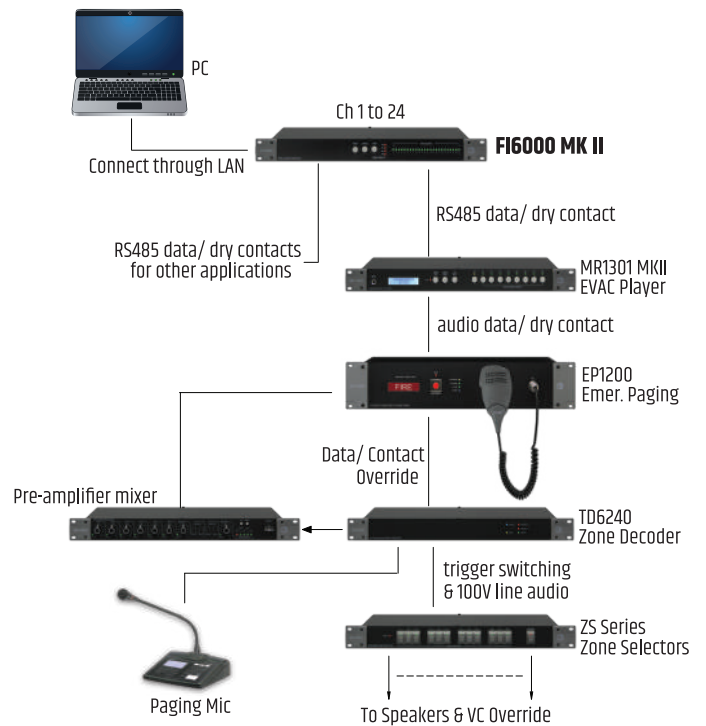## Fire Alarm Interface

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 preprogrammed 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.

Channel configuration interface

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

Application Schematic

Technical Specifications

Input voltage	24 V DC; 1A
Power consumption (all triggered)	21W; 0.9A
Input channels	24 ports
Trigger method	Dry contact, NO
Output channels (dry contacts)	4
Output contact rating	3A
Output contact models	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 (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 : 2.55 kg
1 unit per carton

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MR1301 MK II
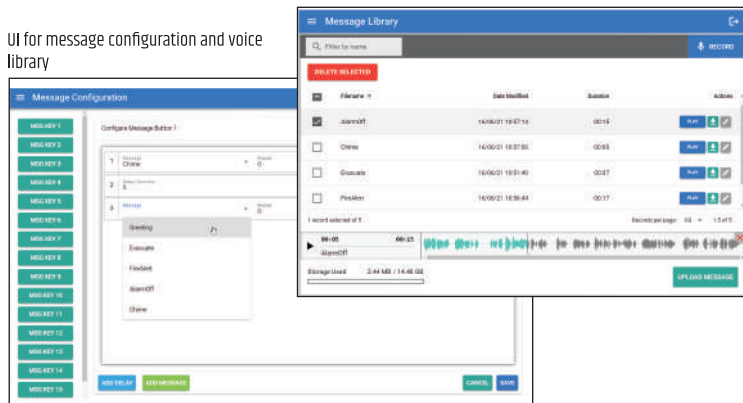## EVAC Message Player / Voice Recorder

MR1301 MK II has been designed to meet stringent requirement for EVAC announcement. It has large memory bank to store important messages of up to 16 groups. Activation of messages is via front buttons, RS485 or dry contacts. It is suitable for usage with Amperes FI6000 Fire Alarm Interface which is then linked to Fire Alarm Panel.

Much effort are made to enable ease of operation and setup. All settings are done via web browser.

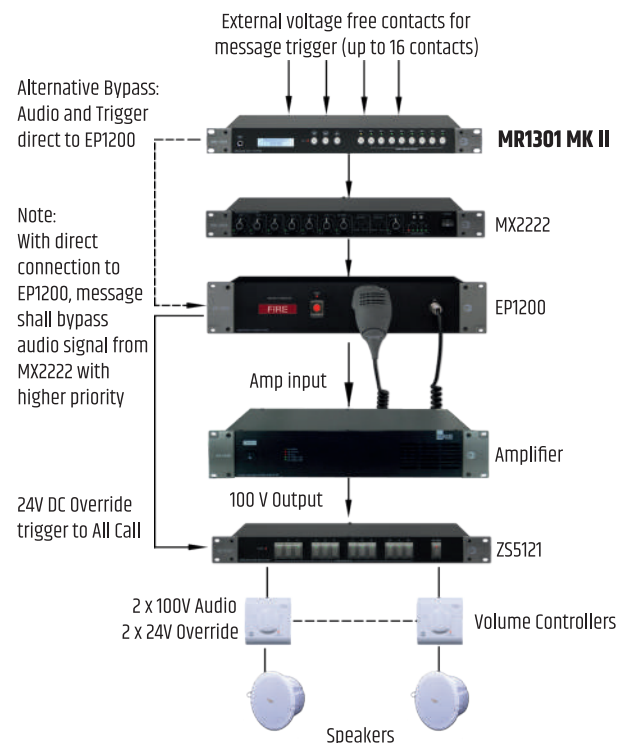UI for message configuration and voice library

- **32 GB memory** space for large file storage and recording
- Message playback via **RS485 / front switches / remote trigger**
- High quality **MP3 audio** playback to 320 kbps
- 64 kbps **IMA ADPCM** audio recording
- **16 preset** memory banks with multiple files per bank
- **Flexible** message assignment to memory bank button
- **Event logging** with time stamp for every activation event
- Built in 5 band graphic **equalizer**
- **Web technology** with user friendly GUI with simple updates

Technical Specifications

Operating voltage	24V DC; 1A
Power consumption	2.4W (0.1A)
Standby consumption	1.7W (0.07A)
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, 2 x 18 Char LCD
Memory	Internal 32 GB SD memory card
Dimensions (W x H x D)	482 x 44 x 180 mm
Weight	2.0 kg

Application Schematic

External voltage free contacts for message trigger (up to 16 contacts)

Alternative Bypass: Audio and Trigger direct to EP1200

Note: With direct connection to EP1200, message shall bypass audio signal from MX2222 with higher priority

24V DC Override trigger to All Call

MR1301 MK II

MX2222

EP1200

Amp input

Amplifier

100 V Output

ZS5121

2 x 100V Audio
2 x 24V Override

Volume Controllers

Speakers

Packing Information

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

Gross weight : 2.6 kg

1 unit per carton

AR1400
Event and Audio Recorder

AR1400 is a dual purpose recording device, as an event logger and audio recorder. Activities or events running in the system shall be logged with time stamps and audio recorded which can be used as evidence for any dispute in regards to paging announcement.

It can be used in conventional PA system for analogue / digital records for paging mic activity, message playback or emergency paging. AR1400 is also readily to be employed in Amperes iPX system, to record up to 3 simultaneous iPX activity.

- **Web technology** for convenience of setup and controls via browser
- Simultaneous recording for **2 analogue inputs**
- Compatible with **Amperes iPX** paging audio recordings
- **32 GB** of memory for hundreds of recording hours
- **World clock** synchronization
- **Report** generation to CSV file
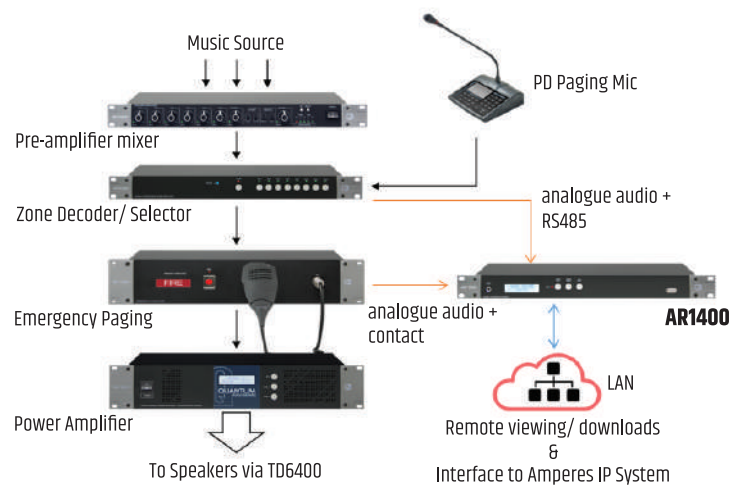- **RS485** port for external controls

Activity logs are available for both conventional and iPX system

File manager UI, allows direct playback of recorded voice file

Application Schematic

Music Source

Pre-amplifier mixer

Zone Decoder/ Selector

Emergency Paging

Power Amplifier

To Speakers via TD6400

PD Paging Mic

analogue audio + RS485

analogue audio + contact

AR1400

LAN

Remote viewing/ downloads & Interface to Amperes IP System

Technical Specifications

Input voltage	24V DC
Power consumption (all triggered)	2.1W; (0.09A)
Input channels	3 (including iPX)
PMX record initiation	Via iPX5101
Analogue input record initiation	Dry contact and RS485
Input level	Line: Balanced Max +4 dBU
Output controls	1
Storage media	32GB Internal SD card
Recording duration	500 hours
Recording format	WAV, MP3
Indicators	LCD display
Communications	RS485; 19.2 kbps
	LAN 10/100 Base T
User interfaces	Web browser: Google V90+
Dimensions (W x H x D)	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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