MPA-2000 Series PA/GA System

Public Address & General Alarm System for safety essential applications



- Public Address and General Alarm (PA/GA) System

The Public Address system is a maritime combined Public Addresser and General Alarm (PA/GA) system. The Public Address System ('PA') and the General Alarm System ('GA') are very important systems to ensure the safety of facilities and people on board. It must be able to address emergency situations accurately and seamlessly integrated with various alarm systems. Therefore, it must be tested comprehensively for its function and safety features and be certified by the organizations concerned as necessary.

The construction of the PA and GA systems must be highly reliable to ensure the safety of human life are addressed and fulfilling various operational requirements. Areas with potential explosion danger may require application of explosion-proof speaker and intrinsically safe microphone.



Microphone



Mic/Sp. Junction Box



General Alarm Unit



Bulkhead Speaker



Toilet Speaker



Horn Speaker



Ceiling Speaker



Goose-neck Mic. Unit.



MPA-2000 Main Cabinet





Remote Controller with Mic.

And the PA and GA systems were designed in compliance with the following regulations:

a) International Electro-technical Commission (IEC)
b) International Maritime Organization (IMO) SOLAS
c) Nautical Safety (Rules for the Classification of Ships, DNV)

The system is tested according to IEC60945, certified for CE by DNV Register.

Electric Specifications"

- Power Output: 100W/200W/300W, etc.
- Frequency Characteristics: 300 ~ 5000Hz within 6dB
- Distortion & S/N Ratio: less than 5% / more than 50 dB
- Source of Power (Single): AC-220V/100V, DC 24V
- Power Consumption (Single): 16A, per 200W (DC 24V) & 2.5A per 200W (AC 220V), 5.6A per 200W (AC 100V)
- Operating Temperature Range: -10℃ ~ +40℃
- Operating Humidity: less than 90%

Features:

- Max. 300W audio amplifier per 100W unit.
- Up to 2 MPA 9000 control units connected.
- Diode Matrix programming for priority, input and output.
- Up to 6 talk back microphones connected.
- Up to 3-group talk back system.
- Up to 10 microphones connected include talk back.
- External paging facility for PABX for 3-zone group.
- Prepared for General Alarm system.
- Interfaces for manual and/or automatic alarms with GAG-95B.
- Entertainment sources, with free zone selection.
- Configurable priority levels.
- 15 speaker outputs, with unlimited amplifier expansion.
- Facility for muting of local loudspeaker during paging.
- Override of entertainment volume-controls during paging.
- Output for mute of external GA system.
- Output for activation of external GA system.
- Mute of external alarm facility.
- External general button (zone 1 and zone2)
- Built-in loudspeaker, to monitor activity on zone
- Powered by 110/220V AC with automatic switch to 24V DC
- Built-in 24VDC BK terminal to protect radio receiver.

ISO 9001 & OHSAS 18001 Certified, for more information, visit www.mrckorea.com

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Talk-Back Area

1. Wing (PORT / STBD)
2. Upper Deck FORE / AFT
3. SGR, ECR and CCR

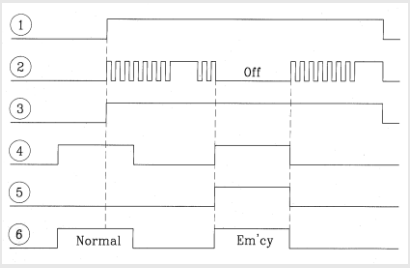
Paging Call

1. All Paging Call : Similar output as PA
2. No.1/2 Group Paging : "8" & "9" (Machinery / Deck Area, Option)

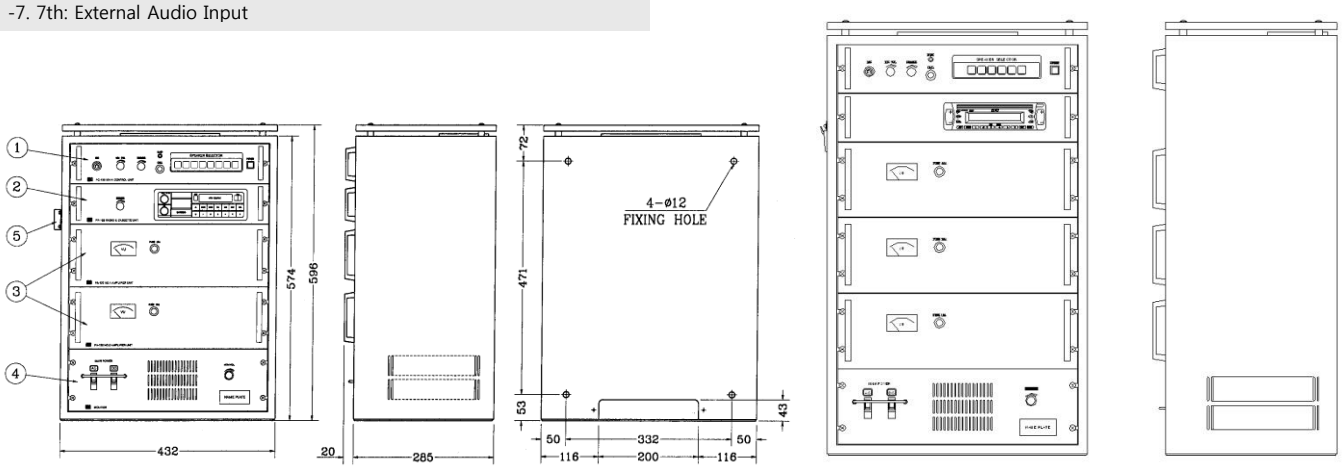
Priority of Broadcasting

-1. 1st: Emergency speech and from control panel in wheelhouse overriding general/fire/various alarm.
-2. 2nd: Emergency General Alarm (External Input)
-3. 3rd: Public addressing from control panel in main unit.
-4. 4th: Talk-Back
-5. 5th: Auto-telephone paging "0"
-6. 6th: Radio, cassette, CD addressing from control panel in main unit.
-7. 7th: External Audio Input

Interfaces with Emergency General Alarm Generator



-1. E, G/A switch (Triggered and turned off.)
-2. E, G/A bell, buzzer, P/A speaker or others (7-short and 1-long tones)
-3. P/A STOP signal: Supply a dry contact signal from the E, G/A equipment to the P/A.
-4. Navigation bridge microphone on/off button
-5. E, G/A STOP signal: This dry contact signal is sent from the P/A to the E, G/A.
-6. P/A equipment speakers



MPA-2200 and MPA-2300CD Main Amplifier

Agent of MRC

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