MPA-2000 Series PA/GA System
Public Address & General Alarm System for on and offshore applications

GENERAL DESCRIPTION

Public Address system is a marine and offshore PA/GA system. The Public Address System (PA) and General Alarm System (GA) are very important in ensuring the safety of facilities and human life. The system must be able to address emergency situations accurately and seamlessly, integrated with various other alarm systems.

In particular, this system is designed to respond precisely to emergency situations through the connection with various alarm systems. In explosion endangered areas, an explosion-proof speaker or an intrinsically safe microphone is supposed to operate.

System Features

- Max. 300W audio amplifier per 100W unit
- Up to 2 MPA 2000 control units connected
- Dock Matrix programming: priority, input and output
- Up to 6 talk back microphones connected
- Up to 3 zone talk back system
- Up to 10 microphones connected include talk back
- External paging facility for PARX for 1-zone group
- Prepared for General Alarm system
- Interfaces for manual and/or automatic alarms with GAG-95B
- Entertainment source, with free zone selection
- Configurable priority levels
- 15 speaker outputs, with unlimited amplifier expansion
- Facility for muting local loudspeaker during paging
- Observe of entertainment volume controls during paging
- Output for muting external GA system
- Output for activating external GA system
- Muteable external alarm facility
- External general button (Zone 1 and zone 2)
- Built-in loudspeaker to monitor activity
- Powered by 110/220V AC with automatic switch to 24V DC
- Built-in 24VDC BK terminal to protect radio receiver

Electrical Specifications

- Power Output: 100W/200W/300W, etc
- Frequency Characteristics: 300~500Hz within 6dB
- Distortion: 6.3% Ratio: Less than 5% / more than 50dB
- Power Source (Single): AC 220V/100V, DC 24V
- Power Consumption (Single): 16A, per 200W (DC 24V)
  23.5A per 200W (AC 220V), 3.5A per 200W (AC 100V)
- Operating Temperature Range: -10°C ~ +40°C
- Operating Humidity: Less than 90%

The PAGA system abides by 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
This system was tested at the (EC4094S) standard and approved for CE by DNV.

Talk-Back Area

1. Wing (PORT / STBD)
2. Upper Deck (FORE / AFT)
3. 5GB, CCR and CCR

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
3. P/A STOP signal: Supply a dry contact signal from the E. G/A equipment to the P/A
4. Navigation bridge microphones 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

Broadcasting Priority

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

MPA-2000 Main Cabinet

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