MPA-9000 Series PAGA System

Public Address & General Alarm System for on and off shore safety essential applications



- PUBLIC ADDRESS AND GENERAL ALARM (PAGA) 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



Bulkhead Speaker



Horn Speaker



Ceiling Speaker



General Alarm



Remote Controller



MPA-9000 Main Cabinet

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. And types approved by CCS and DNV.

- General Description

MPA-9000 Main Unit

It is designed for 19" 1 Unit rack mounting,

FEATURES:

- Up to 8 MPA 9000 control units connected.
- Digital programming for priority, input and output, system diagnosis, password control.
- Up to 11 emergency microphones connected.
- External paging facility (from Talkback/PABX etc.).
- Prepared for A/B dual system, with alarm synchronization.
- Interfaces for manual and/or automatic alarms.
- Entertainment sources, with free zone selection.
- Signal processing capabilities.
- Configurable priority levels.
- 16 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.
- Synchronization with external GA tones.
- Up to 10 different alarms in the system.
- Chime (ding-dong) generator.
- LSC (Light Signal Column) activation.
- Interfaces UHF/VHF Transceiver
- Built in audio output for peripheral device.
- 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
- Overload, fault indication and amplifier monitoring

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

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Technical Specification (Power)

1. Power Output	: 400W ~ 4.8KW (more)
2. Frequency Characteristics	: 300 ~ 10,000Hz (6dB)
3. Distortion Ratio	: 5% or less
4. S/N Ratio	: 50dB or higher
5. Source of Power	: AC110/220V 60Hz, DC 24V
6. Power Consumption	: 40A (DC) Fuse/NFB
	: 5A (AC), 20A Fuse/NFB
7. Temperature and Humidity Range	: -15℃~55℃, 90% or less

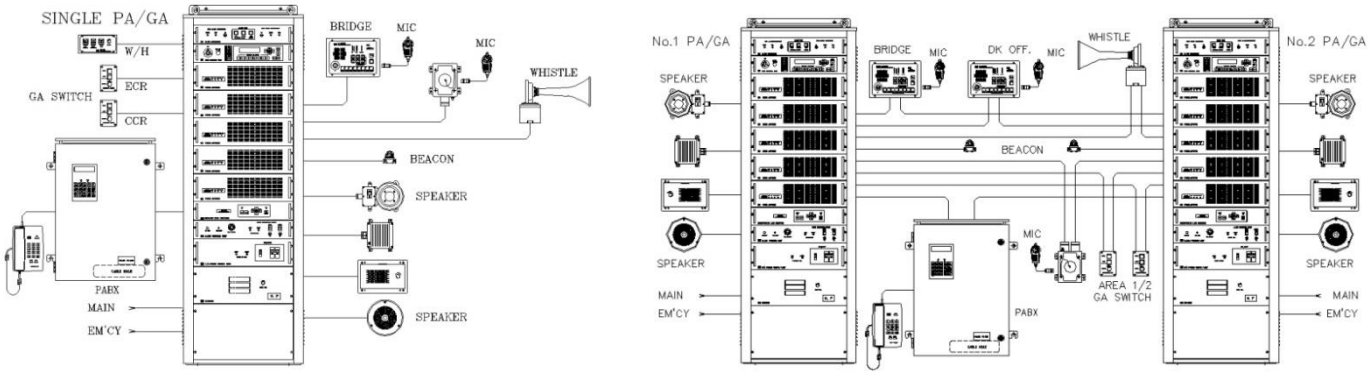
Alarm Generator Unit, AG-901

1. Rated Output (when connected to PA)	: Similar output as PA
2. Output Impedance	: 600 Ω
3. Input Level (minimum input level)	: -40 ~ 0 dBm
4. Frequency Response	: 300Hz ~ 6KHz (6dB)
5. Distortion Ratio	: 5% or less
6. S/N Ratio	: 50dB or higher

Kind of Signal In/Out/Mute Alarm

Signal in: All 18(Eighteen)

1. Abandon (Muster): Automatically operated; 1 short & 1 long alarm
2. GA: Hand & Auto: Manually operated & 7 short and 1 long alarms
3. Fire Alarm: 1300Hz, 1100Hz, 0.25 sec. interval, (alternating) sustained
4. Alarm 7: Watch Alarm (optional)
5. Alarm 8: ESDS Alarm (optional)
6. Alarm 9: CO2 Alarm (optional)
7. Alarm 10: Machinery Alarm (optional)
8. Alarm 11: Steering Gear Alarm (optional)
9. Alarm 12: Bilge Alarm (optional)
10. Alarm 13: Engineer Alarm (optional)
11. Alarm 14: Personal Alarm (optional)
12. Alarm 15: Cargo Alarm (optional)
13. Alarm 16: Gas Det. Alarm (optional)
14. General Alarm Test
15. Fire Alarm Test



Single and Dual Amplifier at Single Rack Type Wiring Diagram

Agent of MRC

Headquarters

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