

PRODUCT DESCRIPTIONS



MPA-9000 Series PA/GA System

Public Address and 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 people on board. 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.

The PAGA system abides by the following regulations:

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

This system was tested at the IEC60945 standard and approved for CE by DNV. The Type Approval was done from Lloyd Register, CCS, and DNV.

System Features

- MPA-9000 Main Unit for 19", 1 Unit rack mount
- Up to 8 MPA 9000 control units connected
- Digitally programmed 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 local loudspeaker during paging
- Override of entertainment volume controls during paging
- Output for muting external GA system
- Output for activating 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
- Mutable 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
- Overload, fault indication and amplifier monitoring
- IP Server / Speaker(Optional)



Technical Specification (Power)

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

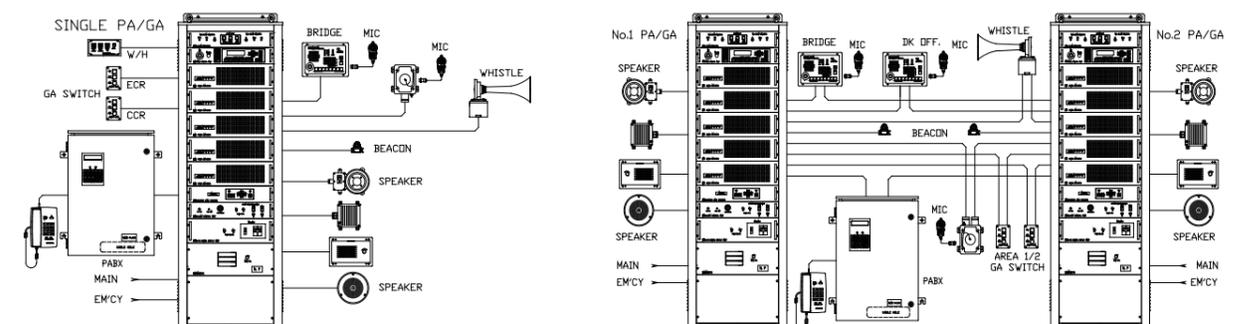
Alarm Generator Unit, AG-901

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

Kind of Signal In / Out / Mute Alarm

Signal in : All 18 (Eighteen)

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



[Single and Dual Amplifier at Single Rack Type Wiring Diagram]