



EVAC5000 PA/GA SYSTEM

Digital PA/GA & Entertainment system

Marine
communication

- **Public address**



Specializing in secure communication



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BOSCH

Invented for life

PRAESIDEO is the perfect public address system to create a pleasant atmosphere for cruise ship passengers and ensure their safety in the event of an evacuation. Flexibility is guaranteed with a virtually unlimited number of zones and high number of audio channels, each with local source and volume control.

With over 20.000 installed systems worldwide, PRAESIDEO is the most established solution for demanding public address and emergency voice evacuation applications. Superb sound quality, operational versatility and a program of continuous enhancements ensure PRAESIDEO leads the market.

The system easily interfaces with shipboard fire detection and alarm system, as well as weather alarm, security alarm and other third party systems. Praesideo complies with all treaties for commercial ships engaged in international service, and is recognized by all major maritime nations. It is SOLAS certified ('Safety of Life at Sea') – the most important maritime safety standard – and includes standard maritime alarm tones.

Summary of requirements:

Addressable EVAC zones that correspond to ship fire zones

Easy Interface to fire alarm system

Redundant A-B system configuration ensures emergency messages are heard

SOLAS, EN54-16, ISO7240-16 and EN60849 certified

Non emergency paging functionality eliminates the need and complexity of a separate communication system

Flexible BGM control with convenient interface to shipboard entertainment system

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System description:

To assure cruise ship safety, two complete systems are installed at separate locations ('A-B configuration'). Each zone is connected via dual loudspeaker lines to both systems. The system incorporates rugged paging call stations (Praesideo call station kits).

The system also incorporates touchscreen-controlled call stations with a very simple yet powerful graphical user interface.

An emergency call station on the bridge with duplicate electronics connects both systems (A and B). Various power amplifiers efficiently meet the specific power requirements of each zone. Music sources can be connected to the line inputs of the network controller unit and routed to the different public areas and function rooms.

Audio from the entertainment system can be digitally routed to the Praesideo system using Cobranet technology.

Loudspeaker monitoring:

Loudspeaker lines, and individual loudspeakers at crucial locations, are supervised using Praesideo's 'wirefree' loudspeaker supervision. Spare amplifiers can back up multiple primary amplifiers and automatically take over if a primary amplifier fails. Fault conditions are immediately logged and reported, allowing corrective actions to be taken.



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Digital versatility

Bosch PRAESIDEO is the world's first fully digital, networked, public address and emergency sound system. The system's unique optical network offers total freedom in system design, interference-free audio and a high level of redundancy that traditional systems cannot offer. It is fully programmable, and interfaces with other security systems. PRAESIDEO redefines the boundaries of quality, flexibility and reliability.



Scalable

The decentralized network architecture of Bosch PRAESIDEO facilitates simple 'daisychain' interconnections. Units can be added or removed as required for total freedom of configuration.

System control

- Fully programmable
- Digital message management
- Monitors system, control, amplifier operation, microphones
- Checks loudspeaker line integrity and individual loudspeakers
- Call recording and forwarding



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SYSTEM DESCRIPTION

Main Cabinet:

Consist of 1pcs Network Controller (2pcs when it is A & B—system)

All programming of amplifier zones and prerecorded messages and alarm tones will be done in the unit.

Therefor you will have fully supervision of all programming.

The controller also supervise the system and the speaker loops and will report fault events.

Xpcs amplifiers depending of quantity of speaker zones and power:

Announcement stations:

Announcement stations with gooseneck microphone

All panels with 8, 16 or 24 buttons for zone, message and alarm control.

Message control:

Message can be programmed directly into the Main system or to the digital message player.

Messages can then be played into default or user choice zones.

Messages which are the same under long time is programmed directly into the Main controller for supervision possibility.

Alarm messages is programmed into the Main controller and is monitored from the system.

Faults are presented on displays and on the supervision PC.

Fault alarms are even distributed to the ships main engine alarm.

General, Fire, MoB, Abandon Alarm signals and Test message are preprogrammed in the system.

Location:

The system equipment shall be exclusive in PA-room,

If regulation demands A & B-system both system must be placed in different fire zones.

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SYSTEM DESCRIPTION

Input terminals:

Inputs for:

Start of General, Fire, MoB and Abandon alarm.

PBX / Talkback Input (Possibility to do announcement from PBX or Intercom

Music player input, Safety Video input.

Output terminals

Entertainment mute

GA / Fire Mute,

Wheelhouse speaker mute

General 24VDC out

GA/Fire 24VDC out

GA-Pulse out

Cables:

Cat 6 and telecommunication cables.

Power supply:

Emergency 240 VAC

Back-up power 48VDC or 240 VAC ON-line UPS

Option:

-Wireless microphone for wheelhouse.

-Digital message player.

-PC Call station with touchscreen and Grafic user interface for easy survey of all announcement and recorded message.

-In the PC-Call station you even control the background music.

-AVC-microphones which controls the levels on the speakers depending on the background level.

-Call Stacker, Premonitoring you announcement before you distribute the call.

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System overview

- Main equipment mounted in 19" cabinet:
Network controller: 1 or 2 pcs
Amplifiers: Depending on speaker zones and power
Output power: 24V DC
Relay Outputs: GA, Fire, MoB, Abandon, 24V DC
Inputs: PBX/Intercom, GA, Fire, MoB, Abandon, Music
Alarm signals: GA, Fire, MoB, Abandon
Messages: Test message
Connection terminals: Weidmuller
- Manuals, Drawings, Software
- Loudspeaker sound survey, Commissioning

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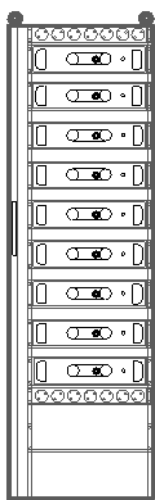
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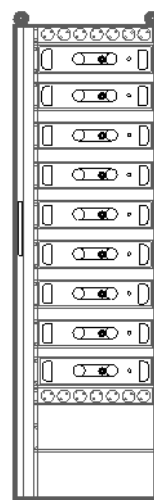
Pc-Call stations



System A



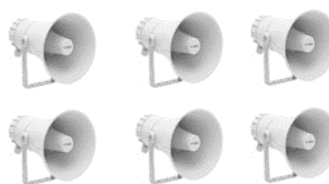
System B



Alarm panels



Announcement / Alarm Units



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