

AFRODYTA

AFRODYTA is the PA/GA T-B system that provides both the one-way and two-way communication on the ship for announcing the verbal messages and alarms as well as the communication between the subscriber substations, loudspeakers and the MCS-20 microphone stations. The loudspeaker lines are of the 100V standard to connect a large number of the loudspeakers. The digital feedback line provides the communication between the subscriber substations and the central block and the MCS-20 stations.

The broadcasting system was designed to provide the announcements for the open decks and the underdeck spaces of the vessels. Its modular structure allows the system to be installed in the various hardware configurations according to the requirements for a given type of unit.



The design was based on proprietary solutions used in the Integrated Communication System (KenBIT's NEPTUN ICS) using the experience gained during many years of servicing various broadcasting systems used onboard the Polish Navy and the NATO units.

The system consists of the MCS-20 microphone stations, the ACM-8 alarm panels, MSB subscriber stations with Talk-Back (TB) system, the cabin loudspeakers and the on-board loudspeakers.

In the year 2021 our AFRODYTA PA/GA TB public address and general alarm system successfully passed the process of the EMC and climatic-mechanical tests (including the salt mist endurance test). As the result it has obtained the Product Type Approval Certificate of the Polish Register of Shipping (PRS).

FEATURES

The one-way communication – the PA mode for announcing messages and commands.

The two-way communication – the TB mode between the subscriber's point (loudspeaker) and the MCS-20 microphone panel as well as calling the multiple subscribers simultaneously.

Broadcasting the alarms by means of the programmed acoustic signals.

Posibility of the integration of the PA with the marine acoustic and visual (optical) signaling control systems.

Retransmission of the PA broadcasts into the other internal communication systems.

Broadcasting the programs (e.g. music) – the entertainment function.

Company website



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The PA/GA T-B broadcasting system meets following requirements

- Function of the PA, GA and the integrated PA/GA system
- The microphone panels connection redundancy [option]
- Hierarchy of the access panels and the GPI/GPO control inputs/outputs
- Buttons on the alarm panels protected against the accidental use
- Bypassing the local volume regulators settings when announcing PA in the emergency situations
- Retranslation of the PA messages to the subnet in the combat or threat modes
- Control of the visual alarm signaling devices in the noisy areas
- Mute the entertainment systems during the PA announcements in emergency situations
- Interface to the external GA systems
- Muting GA while transmitting the PA messages
- Audio feedback management
- Power supply redundancy
- Redundant PA and GA infrastructure [option]

Central Unit CU/OUP - front and back



The features of the MCS-20 Microphone Stations

- The built-in speaker
- Multifunctional OLED display with the VU indicator
- System status signaling LEDs: busy, using the on-board microphone, switching to standby mode
- Signaling the status of individual subscriber lines by the LEDs in the line/zone selection buttons
- Dedicated the predefined 'All out' and 'All in' circulars for broadcasting the PA messages in the accommodation spaces and the open decks
- Intercom communication between the MCS-20 panels with conference call function
- Possibility of transmitting the messages from the built-in microphone of the MSC-20
- Possibility of connecting the remote microphone (Bridge)
- Remote control of the entertainment subsystem
- The 'SIG' button for the manual alarm generation or activation of the machine signaling
- Control of the built-in speaker volume level

MCS-20 Microphone Station (desktop version)



MCS-20 Microphone Station (wall mounted version)



ACM-20 Alarm Contact Maker



Product website



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