

SPA-V2

PUBLIC ADDRESS SYSTEM



when communication is critical

FEATURES

- Standalone PA and GA system made for the ship environment
- 19" rack w/screw terminals for ship cable network
- Power Amplifiers, 100 V line with alternative power output of 120, 240 or 400 W
- Provides monitoring of power amplifiers
- 6 zones selection + ALL
- VINGTOR integrated PA/GA solution in combination with VINGTOR ACM
- Input for 3 microphone panels
- AUX / Alarm input
- Input from Talk-Back system
- Input from PABX (preselected zones)
- Mains 230 V AC/24 V DC w/auto switch-over
- Built-in pre-amplifiers
- Wide set of microphone and alarm panels

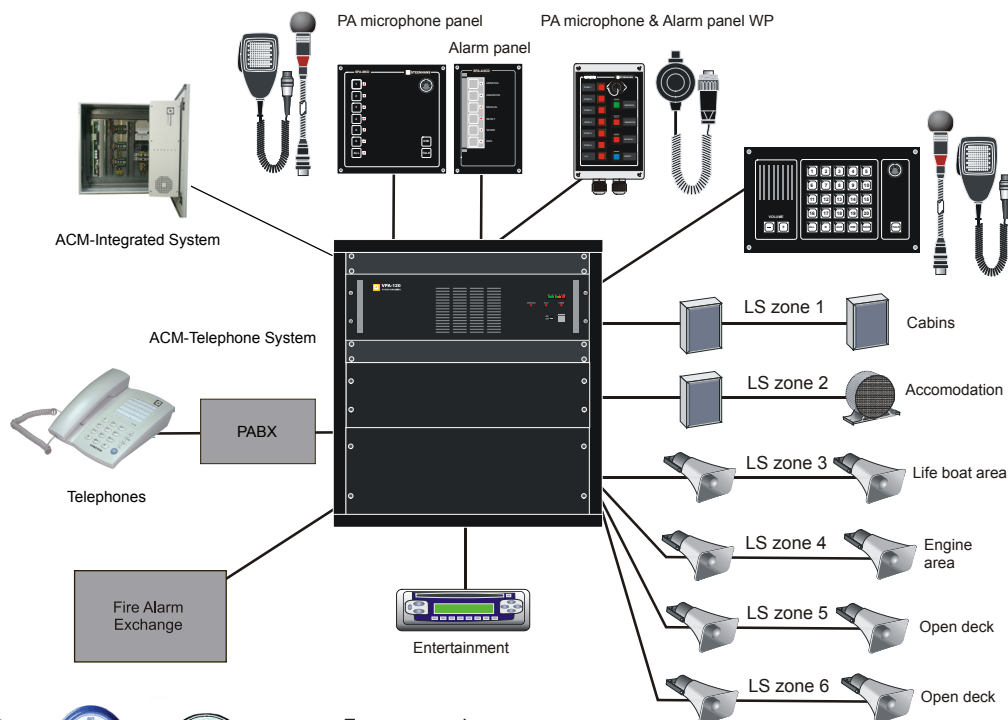
DESCRIPTION

The SPA-V2 system is specially designed to meet the demands for a cost-effective Public Address system for use on board ships. The system is available in different versions and offers a set of standard and optional features which covers the requirements for a marine PA and general alarm systems for all type of ships.

Each SPA rack supports from 120W to 2800W. A system can consist of multiple racks to provide needed capacity. The racks can be provided in the following sizes: 12 HU, 16 HU, 20 HU, 24 HU, 30 HU and 40 HU.

The SPA system supports the VINGTOR integrated PA and GA solution. This solution is type approved for Public Address and general alarm. Together with the VINGTOR ACM, the SPA system are extremely cost efficient where SPA loudspeaker loops are used together with the integrated ACM units to cover areas where PA and GA are required onboard the ship.

At delivery, the rack is equipped and internally wired according to customer specifications.



Type approved

The system is tested according to EN60945, and is type approved by DNV, RMRS, CCS and RRR



SPECIFICATIONS

Main unit	
Rack size (WxHxD)	525 x 584 x 525 (19" 12HU)
Material	Black painted steel
Mounting	Floor
Voltage input	Mains 230 VAC & 24 VDC (110V AC on req.)
Connections	Plugable terminals for max. 2.5mm ² cable
Cable requirements	Signal cable 0.75mm ² twisted outer screen
Amplifier	VPA-120, VPA-240 AND VPA-400 See separate data sheet
Output	100V -120W -400W
Operating temperature	-20 - +55°C
Relative humidity	<95%
Safety	EN 60065
Tested according	EN 60945
Optional rack sizes	19" 12,16, 20,24,30 and 40HU
Field Equipment	See separate data sheets

SYSTEM UNITS

ORDER NUMBER	DESCRIPTION	ORDER NUMBER	DESCRIPTION
Central units, Control units & Amplifiers		Announcement And Alarm Units	
3005010079	SPA-120-V2 "PA Main Unit,19"" RACK" 1X120W VPA Amplifier	3005010146	SPA-M1H-V2 PA panel single for all call - flush - w/handheld mic ETC-1
3005010084	SPA-240-V2 "PA Main Unit,19"" RACK" 1X240W VPA Amplifier	3005010149	SPA-M1S-V2 PA panel single for all call - flush -w/gooseneck mic MB-30G
3005010087	SPA-400-V2 "PA Main Unit,19"" RACK" 1X400W VPA Amplifier	3005010145	SPA-M1H-D PA panel dual for all call - flush - w/handheld mic ETC-1
3005010235	VPA-120 Power Amplifier, 120W/100V, 220V AC/24V DC - 3HU	3005010148	SPA-M1S-D PA Panel Dual For All Call - Flush - W/Gooseneck Mic MB-30G
3005010237	VPA-240 Power Amplifier, 240W/100V 220V AC/24V DC - 3HU	3005010158	SPA-M6H-V2 PA panel single w/6 zones, all call and dimmer - flush - w/handheld mic ETC-1
3005010239	VPA-400 Power Amplifier, 400W/100V 220V AC/24V DC - 3HU	3005010161	SPA-M6S-V2 PA panel single w/6 zones, all call and dimmer - flush - w/gooseneck mic MB-30G
3005010180	SPA-SHELF SHELF 1-4 for Additional Equipment	3005010157	SPA-M6H-D PA Panel Dual w/6 Zones, All Call And Dimmer - Flush - w/Handheld Mic ETC-1
3005010181	SPA-SHELF4 Shelf w/drawer f/CU-system incl. Rack expansion 3HU	3005010160	SPA-M6S-D PA panel dual w/6 zones, all call and dimmer - flush - W/ gooseneck mic MB-30G
3005010184	SPA-SWITCH-V2 Monitor w/6xVolume Line Selector and 6x Program Switch 2HU	3005010155	SPA-M6BOKS Back box for SPA-M1 and M6 panels when wall mounted
3005010173	SPA-RCD Radio/CD Player incl. Rack Expansion 2U	3005010095	SPA-AC6 Single alarm panel with covered and illuminated alarm start and reset button for indoor use
3005010107	SPA-CAD6 "CD Player w/6 CD Magazine,19" Rack.exp. incl.	3005010096	SPA-AC6-D Dual Alarm panel with covered and illuminated alarm start
3005010174	SPA-RCD6 Radio/CD Player with 6 CD Magazine, 3U	3005010003	ACBOKS Back box for SPA-AC6 panels when wall mounted
3005010169	SPA-PABXR-V2 PABX Recall Voice Recorder Module 1HU - Rack EXP incl.	3005010199	SPA-W1-V2 Weatherproof PA-panel for outdoor use
	SPA-DMG9016 Digital Message Recorder	3005010197	SPA-W1-D Dual weatherproof PA-panel for outdoor use
3005010108	SPA CHIME-V2 CHIME Generator AC-25	3005010196	SPA-W1AR-V2 Weatherproof PA-and alarm panel for outdoor use
3005010166	SPA-ZONE Contr. Board w/ 4-Way Entert 6 Zones	3005010195	SPA-W1AR-D Dual Weatherproof PA-and alarm panel for outdoor use
3005010012	DR-4524 Power Supply 230 VAC / 24 VDC, 2A	3005010202	SPA-W6A4-V2 Weatherproof PA-and alarm panel w/6 zones for outdoor use
3005010014	DRA-24FSA Power Supply 230V AC / 24V DC, 10A	3005010203	SPA-W6A4-D Dual weatherproof PA-and alarm panel w/6 zones for outdoor use
3005010188	SPA-TERM-V2 Terminal Bpard SPA W/2,5M Cabale	3005010113	SPA-DMG Remote panel for message recorder SPA-DMG9016
3005010121	SPA-EE3D-V2 Alarm set for dual system		
3005010124	SPA-EE3-V2 Single alarm gen. W/3 alarm tones		
3005010127	SPA-EMS-V2 Switching board for emergency PA message		
3005010102	SPA-AL-REL-V2 3 X pot free relay output		
3005010130	SPA-ENT4-V2 SPA 4 way entertainment 6 zones		
3005010191	SPA-VDR-V2 Output for voice data recorder		
3005000038	SMIII-PA PA telephone interface (trunk line needed per PA-line)		
3005010136	SPA-FAIL Power failure output relay with potential free contact		
3005010189	SPA-UPS Auto switch between 230AC main & emerg./Ups incl. Power fail		