



HANSHIN

Public Address System



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Public Addressor

HPA-9000 & HPA-7000 series

Public Address with Talkback System is designed for general announcing with advanced technology, and complies with the IMO regulation II/6.5 & Res. MSC.47(66) performance standard.

The system is also specially made to keep good performance under the bad environment of vessel at sea.

For this system, paging function through auto telephone exchanger and talk-back function are available, and also interface to the external general emergency alarm, fire alarm, air horn and signal light column are available. Registered in a patent for uninterrupted dual public address system by the Korean Intellectual Property Office on 2003.10.10. (Patent No.0402958)

System Feature

- Flexibility in choice of output power
- Reliable and durable performance
- Simple installation and easy maintenance
- Convenient control with microprocessor/diode matrix
- Automatic main/em'cy power changeover
- Automatic main/sub amplifier changeover in dual system
- Built-in howling protection circuit



HPA-9600D



HPA-9200



HPA-7100/7200



HBC-110
Remote Controller

Water Tight Speaker



HWS-530

• Output :
30 / 50 / 75W



HWS-500

• Output :
5 / 10 / 15 / 20W



HWS-550

• Output :
5 / 10 / 15 / 20W



HWS-550V

• Output :
5 / 10 / 15 / 20W



HWS-801

• Output :
1 / 2 / 5W



HBS-901

• Output :
1 / 2 / 5W

List of Function and Specification

DESCRIPTION	HPA-9000 series				HPA-7000 series	
Model	HPA-9200	HPA-9200D	HPA-9600	HPA-9600D	HPA-7100	HPA-7200
Maximum Output	200W, 400W		600W ~ 2,400W		200W/35V	200W/100V
Remote Controller	option		option		option	
General Emergency Alarm Generator	option	standard	option	standard	standard	
CO2 Smoke Alarm Generator	option	standard	option	standard	X	
Fire Alarm	option	standard	option	standard	X	
Gas Alarm Generator	option	standard	option	standard	X	
NATO Alarm Generator	option		option		option	
Fog Alarm Generator	option		option		X	
Dual System	X	standard	X	standard	X	
Back-up System	X	auto (each module)	X	auto (each module)	X	
Speaker Rotating Control	option		option		option	
Announcing Priority	12 class		12 class		9 class	
AM/FM Radio & Cassette Tape Deck	option		option		option	
CD Player	option		option		option	
SW Radio	option		option		X	
Auto-telephone Paging Call	standard (all, group1, group2)		standard (all, group1, group2)		standard (all)	
Talk-back	standard (5 lines), option (10 or 20 lines)		standard (5 lines), option (10 or 20 lines)		standard (2 lines), option (max. 8 lines)	
System Fail Alarm	internal (standard)/external (option)		internal (standard)/external (option)		X	
Speaker Selector	standard		standard		standard	
Monitor Speaker	standard		standard		standard	
General Emergency Alarm Interface (mute)	standard		standard		option	
Fire Alarm Interface (mute)	standard		standard		option	
Fire Alarm Interface (G.E.A relay contact)	with General Emergency Alarm		with General Emergency Alarm		option	
Air Horn Interface	with General Emergency Alarm		with General Emergency Alarm		option	
Signal Column Light Interface	with General Emergency Alarm		with General Emergency Alarm		option	
Automatic Main/Emrty Power Chngover	standard		standard		standard	
Fault Detector (System Check)	X	option	X		X	
Operating Temperature & Humidity	-10℃ ~ +50℃, 10% ~90%		-10℃ ~ +50℃, 10% ~90%		-10℃ ~ +50℃, 10% ~90%	
Howling Protection Circuit	option		option		option	
Audio Frequency Amplifier						
Frequency Characteristic	120 ~ 12000Hz within ±6dB		120 ~ 12000Hz within ±6dB		120 ~ 12000Hz within ±6dB	
Distortion	less than 0.5%		less than 0.5%		less than 0.5%	
S/N Ratio	more than 55dB		more than 55dB		more than 55dB	
Power Source	AC110/220V 50/60Hz & DC24V		AC110/220V 50/60Hz +option (DC24V-DC-AC Inverter)		AC110/220V 50/60Hz & DC24V	
Power Consumption	AC110V: 200W (4A), 400W (8A) AC220V: 200W (2A), 400W (4A) DC24V: 200W (17A), 400W (34A)		AC110V: 600W (11A), 800W (15A), 1200W (22A), 2400W (44A) AC220V: 600W (6A), 800W (8A), 1200W (11A), 2400W (22A)		AC110V: 200W (4A) AC220V: 200W (2A) DC24V: 200W (17A)	
Rack Size (W×H×D mm)	585 × 1056 × 450	585 × 1500 × 450	585 × 1500 × 450	585 (1170) × 1500 × 450	430 × 220 × 376	

*under application for CE mark

Cabin & Passage Speaker

**HWS-300**

- Output : 300W
- W.T Type

**HFS-700/HOS-701**

- Output : 2 / 5 W
- Flush / Wall Type

**HBS-702**

- Output : 2 / 5 W
- Bothside Type

**HFS-703**

- Output : 1 / 2 / 5 W
- Ceiling Type

**HFS-704**

- Output : 1 / 2 / 5 W
- Ceiling Type

Ex Type Horn Speaker



HES-020

- Input Line Voltage : 35V / 100V
- Output Audio Power : max, 20W
- Volume : approx 110dB
- Housing : Aluminum
- Exp. Protection : Ex d IIB T6
- KIMM Cert. No. : EX24FLP996
- Registered in a Utility Model, Reg. No. : 0356038



HES-050

- Input Line Voltage : 35V / 100V
- Output Audio Power : max, 50W
- Volume : approx 117dB
- Housing : Aluminum
- Exp. Protection : Ex d IIB T6
- KIMM Cert. No. : EX24FLP995
- Registered in a Utility Model, Reg. No. : 0356038

Speaker Turn Table



HST-600A

- Handle-rotating
- Rotating Angle : 340°



HST-601/HTB-600C

- Electro-rotating
- Rotating Angle : 360°

Microphone



HDM-012

- W.T Type



HDM-720

- N.W.T Type

Switch Box

General Emergency Alarm Generator



HEG-941D

- Auto / Manual
- Dimmer Switch



HEG-942

- Auto

Mic Connection Box



HCN-053

- Flush Type

Water-tight Junction Box



HJB-901



HJB-902



HJB-903



HMC-601

- Mic Receptacle



HMS-602

- Mic/Sp Receptacle

*Specification subject to change without notice.



HANSHIN

韓信電子株式會社
HANSHIN ELECTRONICS CO., LTD.

34, YEONGSEON-DONG 4-GA, YEONGDO-GU,
BUSAN, 605-816, KOREA

T E L : +82 51 412 5551

FAX : +82 51 412 6660

Web: www.ehanshin.com

E-mail : master@ehanshin.com



ISO / KS A 9001