

PUBLIC ADDRESSER & TALKBACK SYSTEM

SNP-100/200



COMPONENT LIST

ITEM: PUBLICADDRESS SYSTEM(SNP -100/200)

NO	ITEM	MODEL	SPEC	Q'TY	REMARK
1	MAIN UNIT	SNP-100/200	AC220, DC24V SINGLE RACK W/CD	1	
2	W.T HORN SPEAKER	PH-50A	W/1M CABLE, 100	1	
3	W.T HORN SPEAKER	PH-10W	W.T 1-GLAND, 600	1	
4	W.T HORN SPEAKER	PH-5W	W.T 1-GLAND, 1200	1	
5	W.T HORN SPEAKER	PH-5WV	W.T 1-GLAND, W/VR CONTROL	1	
6	W.T PORTABLE SPEAKER	PH-1015	W/10M CABLE, 600	1	
7	W.T SPEAKER	PT-1A1	1-GLAND, 5000	1	
8	W.T SPEAKER	PT-1A2	2-GLAND, 5000	1	
9	N.W.T SPEAKER W/VR	PC-2FV	FLUSH TYPE, 2400	1	
10	N.W.T SPEAKER W/VR	PC-2OV	ONE SIDE TYPE, 2400	1	
11	N.W.T SPEAKER W/VR	PC-2DV	DOUBLE FACE TYPE, 2400	1	
12	N.W.T SPEAKER W/VR	PC-5FV	FLUSH TYPE, 1200	1	
13	W.T MICROPHONE	PM-5CC	W/CURL CORD	1	
14	W.T MICROPHONE	PM-10	W/10M CORD	1	
15	W.T MICROPHONE	PM-15	W/15M CORD	1	
16	MICROPHONE HOOK	MH-5		1	
17	W.T SPEAKER JOINT BOX	PJ-1	FOR TOP SPEAKER	1	
18	W.T MIC. RECEPTACLE	PJ-2	W.T	1	
19	N.W.T MIC RECEPTACLE	PJ-2F	FLUSH TYPE	1	
20	MIC/SPK RECEPTACLE	PJ-2W	W.T	1	
21	G.E.A.G PUSH BUTTON	PB-1D	W/DIM SW, AUTO, MANU	1	
22	G.E.A.G PUSH BUTTON	PB-1A	ONLY AUTO SW	1	
23	G.E.A.G PUSH BUTTON	PB-1W	W.T WALL TYPE	1	
REMARK :					

1. General

1.1 Features

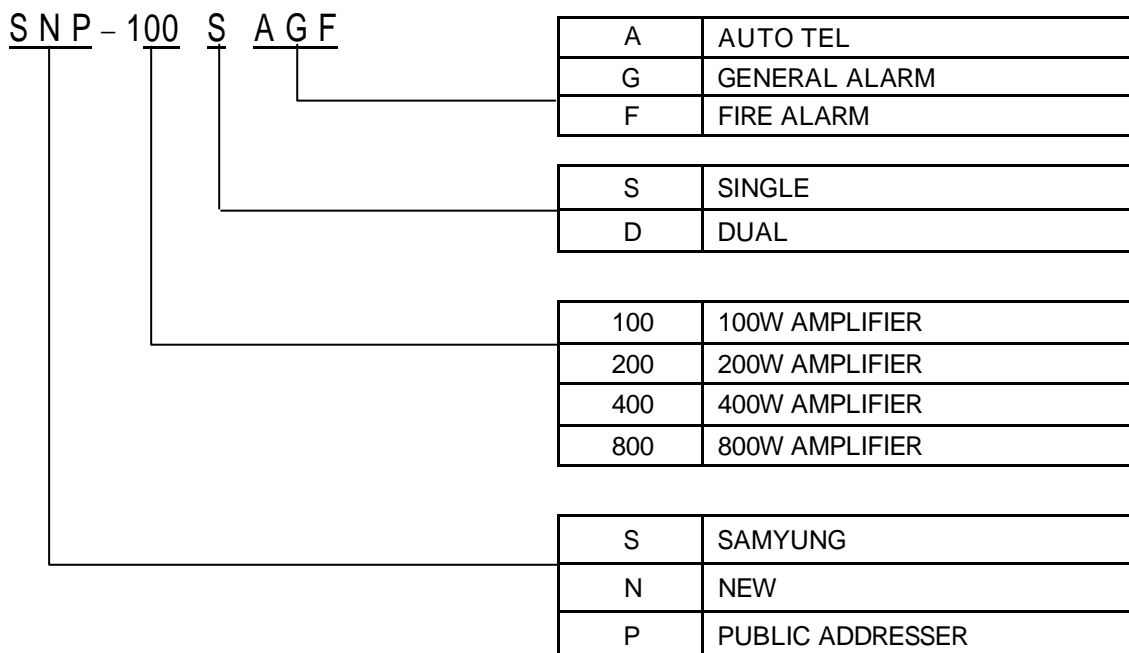
As all active components are of transistors and ICs, the power consumption is remarkably reduced, the system is small in size right in weight.

Unless the load becomes excessive, no speaker matching is required thanks to the adoption of the regulated voltage system for output circuit.

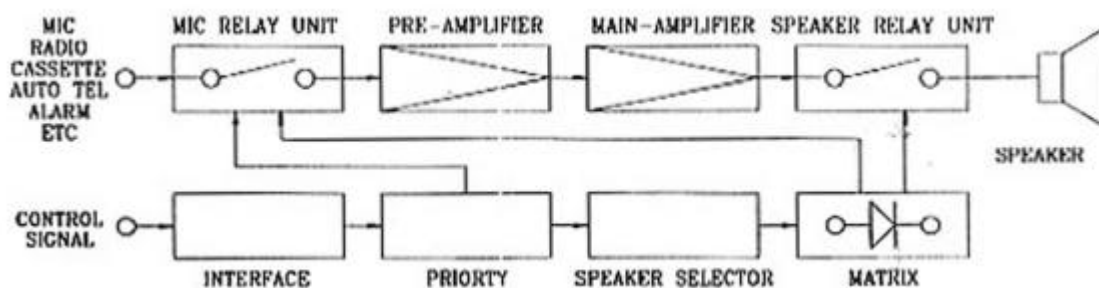
This system incorporates the AC/AC automatic switching circuit. therefore the system can continue the operation even when AC power failure happens.

The system is designed to cope with diverse specification of controlling circuit etc.

1.2 Name of Model

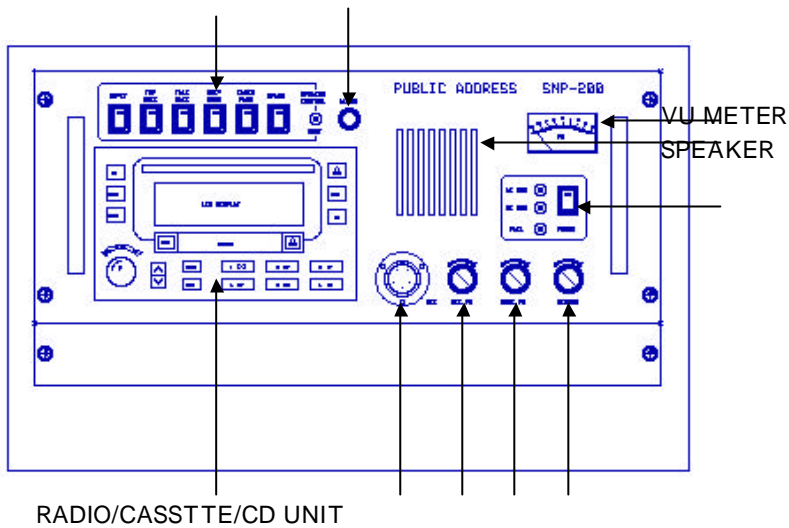


1.3 System Configuration



2. HANDLING METHOD

The MAIN SOURCE switch of the main unit shall remain always turned ON.



2.1 Operation on the main unit

While the BUSY indicator LED is not lit, following operation can be performed.

2.1.1 Broadcasting with microphone

POWER

This is the power source switch of this unit, when it is pushed, the POWER indicator LED lights up.

SPEAKER SELECT

This selector determines the speaker which reproduces message.

VOLUME

This potentiometer regulates input volume of the microphone of the main unit and EXT(external input), usually it shall be set to around the middle.

MONITOR VOL

This potentiometer regulates sound volume of the monitor speaker, usually it shall be set to around the middle. If it is turned fully CW, howling may be produced.

MIC

This jack is for the microphone, insert in it the plug of the microphone. After completion of the above operation, while the push button on the side of the microphone is pushed, broadcasting through this microphone becomes possible.

* Regulate the VOLUME knob to obtain desired output volume. The center green zone on scale of the output meter corresponds to 1/2 output. regulate the VOLUME referring to it.

ALARM

This push button commands the alarm oscillator, when it is pushed, alarm sound of about 800 Hz broadcast. This is utilized for signalling or in emergency.

DIMMER

This regulates brightness of the POWER indicator LEDs.

2.1.2 Broadcasting of radio program

In case of built in radio tuner

- a. Push the POWER switch of the main unit.
- b. Set the SP SELECT to off.
- c. Set the VOLUME to around the middle.
- d. Set the MONI VOL to around the middle.
- e. Push the EXT switch.
- f. Operation of the radio tuner.
 - Push the POWER switch of the radio tuner.
 - BAND
Push the switch of the desired band on receiving bands selector of the radio tuner.
 - TUNING
Tune in the desired frequency with the tuning knob of the radio tuner.
- g. Regulate the VOLUME watching the pointer of the output meter to obtain desired sound volume.
- h. After completion of the above operation, set the SP SELECT to the desired position.

In case that the radio tuner is not built in Even if the radio tuner is not built in, by connection of radio output to the EXT terminal, the broadcasting of radio program becomes possible with operation similar to <2.1.2 >

2.1.3 Broadcasting with cassette tape deck

In case of built in cassette tape deck

- a. Push the POWER switch of the main unit.
- b. Set the SP SELECT to OFF.
- c. Set the VOLUME to around the middle.
- d. Set the MONI VOL to around the middle.
- e. Push the EXT switch.
- f. Operation of the cassette tape deck.
 - If you continue to operate the tape, please push this button once again. The tape deck does not operate properly, in the course of FF or REW operation, even though you push the temporary STOP switch.
 - Ejection button
When you try to eject the tape from the cassette holder, if you push this eject button, the cassette tape spring out in ejecting from holder.
FF() : Please push to the left when you want to operate so fast in the moving direction.
REW() : Please push to the right when you want to rewind the tape so fast.

2.1.4 Emergency broadcasting

When the SP SELECT is set to the EMERG position emergency instruction can be transmitted to cabins, corridors (with maximum volume regardless of position of the sound volume controller mounted to the speaker), engine room etc.

2.1.5 To perform talk-back from the main unit

The operation of the main unit is same as <2.1 > except that the SP SELECT switch is set to TALK-BACK.

When communication to the place to TALK-BACK(F'CLE, POOP etc) is completed, release the push button of the microphone.

C. To send reply to the main unit from the place of talk-back, push also the push button. Reply is transmitted to the monitor speaker built into the main unit (if monitor speakers are provided on both side of the ship, message is reproduced simultaneously) and to the speaker at POOP.

2.2 Broadcasting with TELEPHONE

When the in board telephone is connected to this system, by dialing the specific number on the telephone set, the power source of this system is turned ON and instructions are given to cabins, corridors, engine room with maximum sound volume (under EMERG condition).

2.3 In case that the controller is provided

2.3.1 Operation on the controller installed in the wheel house (PR-601)

Broadcasting with microphone

a. DIMMER

This regulates brightness of the POWER indicator LED.

Talk-back

a. The operation on the controller is same as <2.3.1> except that the SP SELECT switch is set to TALK-BACK.

b. When communication from the controller to the place to talk-back (F'CLE POOP etc.) is completed, release the push button of the microphone.

c. To send reply to the controller from the place of talk-back (example F'CLE), push also the push button while speaking to the microphone. Reply is transmitted to the monitor speaker built into the sub controller (if monitor speakers are provided on both wings, message is reproduced simultaneously) and to the speaker at POOP.

2.3.2 Operation on the sub-controller (Model PR-601)

While the BUSY indicator LED remains turned OFF, following operation can be performed.

Broadcasting with microphones

- a. POWER
This switch commands the power source of this unit, by pushing This, power is supplied to the unit and the POWER indicator LED lights up.
- b. SP SELECT
This switch selects the speaker which reproduces sound the desired place.
- c. MONI VOL
This regulates sound volume of the monitor speaker, usually it shall be set to around the middle. If it is turned fully CW, hauling may be produced.
- d. MIC
This jack is for the microphone, insert in it the plug of the microphone. After completion of the above operation, while the push button on the side of the microphone is pushed, broadcasting through this microphone is possible.
- e. ALARM
This push button commands the alarm oscillator, when it is pushed, alarm sound of about 800 Hz is broadcast. This is utilized for signaling or in emergency.
- f. DIMMER
This regulates brightness of the POWER indicator LAMP.

Talk-back

- a. The operation is same as <2.3.2> except that the SP SELECT of the sub-controller is set to TALK-BACK.
- b. When communication from the sub-controller to the place to talk-back(F'CLE POOP etc.) is completed, release the push button of the microphone.
- c. To send reply to the sub-controller from the place of talk-back (example F'CLE), push also the push button while speaking to the microphone. Reply is transmitted to the monitor speaker built into the sub-controller (if monitor speakers are provided on both wings, message is reproduced simultaneously) and to the speaker at POOP.

3. PERFORMANCE

The SNP-100/200 Public Addresser System was designed for reliable, flawless operation under rigorous use for marine environment.

These PA system was allowed advanced technology and extensive protection circuitry. The clip limiting circuits protect drivers and ensure that sonic integrity is maintained, even in extreme overload conditions. The Dynamic Gain Control circuits protect drivers and ensure trouble-free operation into load as much as 150% load.

These PA system's high efficiency design uses tunnel-cooled heatsink and variable speed AC fan and maintains resulting in longer output transistor life.

SNP-100/200 PA system use Hyunjin's innovative Fault Tolerant circuitry, and can be configured dual system very easy for a passenger ship or desired.

3.1 Source of Power : AC 220V 60Hz

3.2 Main amplifier

- Output power : 100/200W
- Frequency characteristics : 200 – 2,500Hz within 6dB
- Distortion : less than 5% at rated output
- S/N ratio : more than 50 dB

3.3 Built in Equipment

- 3.3.1 Receiving system : Super heterodyne system
 - Receiving frequency : AM 530 - 1602 KHz
 - FM 88 - 108 MHz
- Receiving sensitivity : AM less than 20dBu(S/N:20dB)
- FM less than 4dBu(S/N:30dB)

3.3.2 Cassette tape deck section

- tape speed : 4.75 cm/sec
- Wow & flutter : less than 0.3%
- frequency characteristics : 125Hz - 6.3 KHz
- Distortion : less than 5% (with rated output)
- S/N ratio : more than 45 dB

3.3.3 CD-C section

- Disk : Compact disk(12cm, standard disk)
- Disk speed : 1.2m/s~1.4m/s(500rpm~200rpm)
- frequency characteristics : 20Hz - 20 KHz
- Distortion : less than 5% (with rated output)
- S/N ratio : more than 70 dB

3.4 Paging System : Built-in

3.5 Overall performance of the system must not be effected by the failure of a single call station.

3.6 Alarm Tone Generator : App. 800 Hz

3.7 General Em'cy Alarm Generator

- Frequency : 800 Hz
- Keyed Seven(7) Short & One(1) Long Signal
- Tone Repeatedly
- Manual and automatic operation

3.8 Fire Alarm

- Frequency : 1100Hz, 1300Hz 0.25s

3.9 Gas Detection Alarm : 400Hz, 1.5s

3.10 Electric Specification

3.10.1 Electric Power Voltage : AC 220v, 1 , 60Hz, DC 24v
Dual source for Normal & EM'CY

3.10.2 Power Consumption

- AC 220V : Less 440W(2A)
- DC 24V : Less 360W(15A)

3.10.3 Rated Output Power : 200W

Main and back-up

3.10.4 Distortion : Less than 5%_m

3.11 Dimensions : 490(W) X 310(H) X 400(D) mm

3.12 Weight : App. 29.00 Kg