

Public Address System

Specifications are subject to

Public Address System



Public Address System

Operation Manual



RoHS
COMPLIANT

for our notice.

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Specifications

Specifications

Model	AP-9810P _{2.0}
Alarm signal IN	EMC: 10K ohms(Ω) 330mV, unbalanced
Line IN	LINE: 10K ohms(Ω) 330mV, unbalanced
Microphone IN	MIC : 10K ohms(Ω) 330mV, unbalanced
Paging Microphone IN	4 line: RMIC1, RMIC2, RMIC3 and RMIC4. 10k ohms(Ω) 3V, balanced
Frequency Response	50 Hz ~ 18 KHz ±3 dB
Nonlinear distortion THD	< 0.01% at 1k Hz
Signal to noise ratio S/N	>70 dB
Controllable District Number	10 districts: "CH1~CH10"
Alarm Activate IN	1 set. (0V) Short-circuit signal "ALARM IN (CH1~CH10)"
Alarm Activate OUT	1 set. (0V) Short-circuit signal "ALARM OUT (CH1~CH10)"
Alarm Port	2 set. (0V) Short-circuit signal "ALARM OUT (CH1~CH10)"
Protection	AC FUSE X 500 mA
Power cord	(3 ×0.75 mm)×1.5M (Standard)
Power	AC 220V / 50 Hz
Power Consumption	10~15W
Machine Size	89(H) ×483(W) × 366(D) mm
Carton Size	185(H) × 520(W)× 435(D) mm
Net Weight	4.9 kg
Gross Weight	6.1 kg

Assembly List

Name	Number
Certificate	1
Warranty card	1
Product Manual	1
Power cord	1
Audio cable	1
Drier	1

Warning

To prevent fire or electric shock, DO NOT expose this unit to rain or moisture.
DO NOT open the cabinet.
Refer servicing to qualified personnel.
Do not extend the plug with cables.

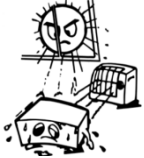







Danger
Dangerous Voltage

Caution
Important instructions presence

Warning
DO NOT expose to rain or moisture

CAUTION: READ THIS BEFORE OPERATING

 <p>Heat</p> <ul style="list-style-type: none">• This unit should be situated away from heat source. <p>Ventilation</p> <ul style="list-style-type: none">• Do not situate the unit in a concealed rack.• If it is placed in a rack or case, sufficient ventilation openings should be available.	 <p>Never open cabinet</p> <ul style="list-style-type: none">• It is dangerous to open the cover or back of the cabinet. If malfunctions are found, unplugged the unit at once and contact your dealer.	 <p>Cabinet protection</p> <ul style="list-style-type: none">• Keep the unit away from pesticide using or gasoline, thinner or any chemical solvents. Clean the dust with soft cloth. Follow manual instructions if using treated cloth.
 <p>Moisture, water and dust</p> <p>Avoid moisture and dust. Liquids should not be spilled into the unit.</p>	 <p>Power cord</p> <p>Unplug the unit by gently pulling the plug instead pulling the cord.</p>	 <p>Nonuse period</p> <p>Unplug the power cord from the outlet when left unused for a long period.</p>

Precaution:

- Do not block the ventilation openings. Do not put any other devices on top of the unit.
- Carefully examine the power cord's condition before operation.
- The power outlet should match the unit's power plug.
- Never damage the power plug..
- The socket should have sufficient capacity and independent, reliable ground terminal.
- Install your unit away from heat sources (including sun), dust, moisture or too much vibration.
The most appropriate workplace environment will be: 5~28° C, humidity < 90%. Cooling measures should be taken if the unit is heated after long time working.
- The power supply voltage should be maintained at 220±10%V. If the voltage is too high, too low or volatile, an AC voltage stabilizer is recommended.

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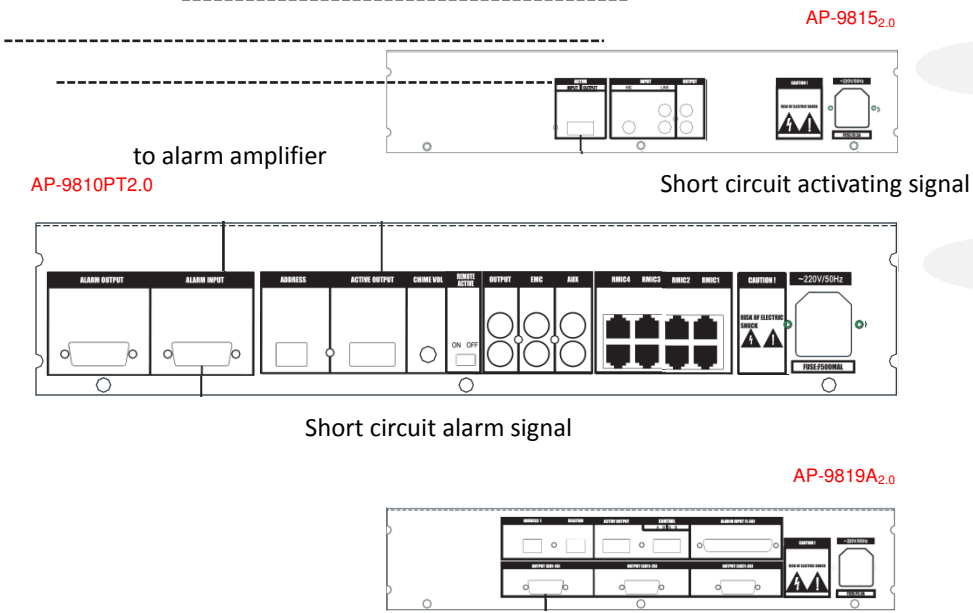
3. District paging using local MIC

Connect a microphone to the MIC interface on the front panel for district paging. Choose the destination district by pressing on the corresponding district control button. The microphone volume can be adjusted using the volume knob on the right side of the front panel.

4. Alarm Linkage Function

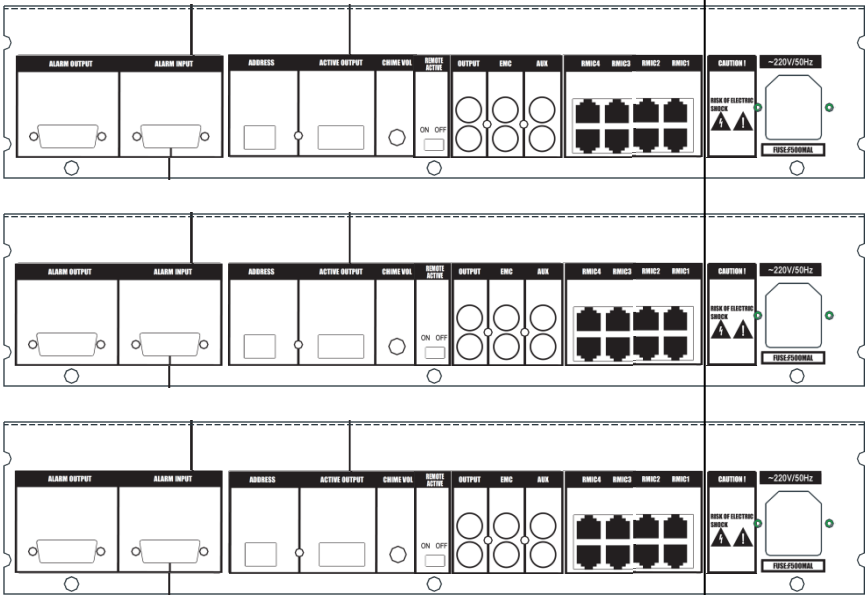
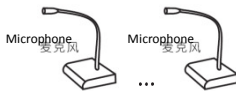
Conneting this unit with Alarm Matrix AP-9819A_{2.0} and emergency panel AP-9815E_{2.0} can enbale the alarm linkage function.

5. Rear Connection Diagram



2. Remote Paging

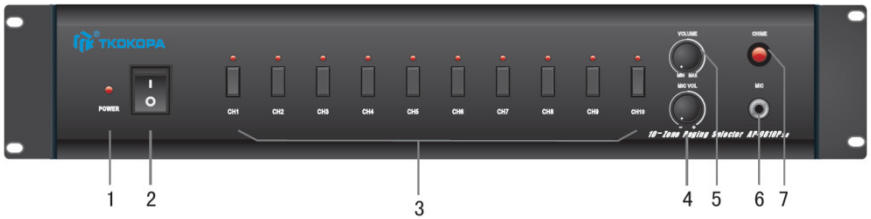
The 4 paging microphone interfaces on this unit can be connected to AP-9810R_{2.0} for district remote paging. Shielded twisted pair cables are used as the transmission lines. Balanced transmission is chosen for transmitting audio signal for having good anti-jamming performance, long transmission distance and good sound quality. Each system can have 4 AP-9810R_{2.0} configured; they are distinguished by the address switch on their rear boards (see AP-9810R_{2.0}'s manual for more operation details). When enabling the remote paging function, one of the AP-9810PT_{2.0}'s addresses has to be set as 1, and different district paging devices should have different address. The bus connection of multiple paging devices system is diagrammed as below:



- 10 zone paging function.
- Professional ding tone chip adopted.
- 4 levels of priority design. From highest to the lowest: (1) Local MIC1 and ding tone; (2) Emergency audio signal (EMC); (3) Paging microphone 1 (RMIC1); (4) Paging microphone 2, 3, 4 (RMIC2, 3, 4) and line (AUX).
- 1-pin computer activating interface (activated by low-level alarm)

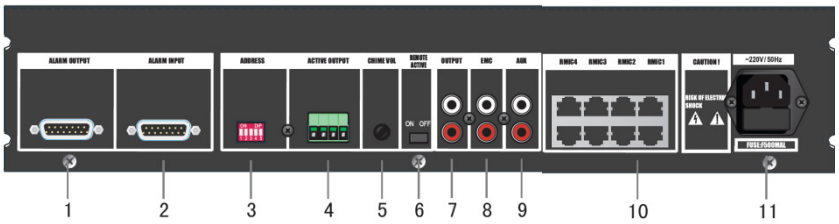
Component Description

Front Panel 1



1. Power Indicator
2. Power switch
3. District control selector
4. Microphone volume control
5. Output Volume control
6. Microphone Interface
7. Chime

Rear Panel 2



1. 10-way circuit alarm activating signal output
2. 10-way circuit alarm activating signal input
3. Address setting
4. Short-circuit linkage signal output
5. Chime volume
6. Activating shout-circuit selector switch
7. Line output
8. Emergency alarm audio input
9. Background music input
10. Paging microphone output
11. Power jack (with fuse)

Operation

1. Basic Operation

District paging status control

10 zones paging function is available. Press the district control selector on the front panel to enable or disable the corresponding district paging channel (indicator: on = enable, off = disable).

Volume control

Output volume can be adjusted by the output volume control knob; microphone volume can be adjusted by the microphone volume control knob.

Address setting

Local address can be configured by the address setting DIP switch on the rear panel. The address is in binary code. Set each digit 1 by pushing the switch down and 0 by pushing it up. 1-3 devices can be configured.

Play prompt tone

Press the chime button on the front panel to play the prompt tone, which can be used as a prompt before paging.

Auto mute

4 levels of priority are available in this unit. A higher priority signal will mute a lower priority signal. Each interface's priority, from highest to lowest, is set as: 1) MIC, 2) EMC, 3) RMIC1, 4) RMIC2, RMIC3, RMIC4 and LINE. A microphone used for emergency broadcast is suggested to connected to "MIC" and alarm signal generator should be connected to "EMC".

Short-circuit paging output setting

User can enable or disable the shout-circuit activating signal output when paging by the REMOTE switch (ON = enable, OFF = disable).