

AP-10MS/C AP-nAS/C

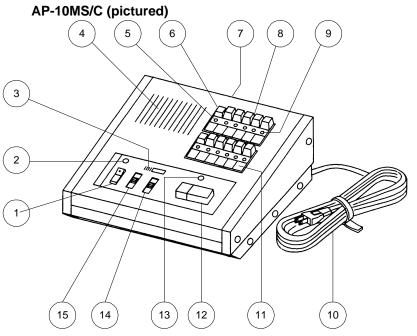
AP-M High powered Intercom System

AP-10MS/C AP-10AS/C AP-20AS/C

- INSTRUCTIONS -

The AP-MS/C system is a high powered, single talkpath open voice system. Multiple masters can be used, along with a large variety of sub station models to create a communication system tailored to the user's needs. The master station is available in an expandable 10-station size. For greater capacity, include a 10-, 20- or 40-station add-on selector. Any "AS-" or "LS-" series sub station can be used. Any 10 watt 8 or 16 ohm speaker can be used for two way communication.(requires NP-25V).

NAMES & FEATURES



NAMES & FUNCTIONS:

- 1. Power switch
- 2. Power indicator
- 3. Microphone
- 4. Speaker
- 5. OFF LED
- 6. OFF button
- 7. Terminal Block
- 8. Selector button
- 9. Station selector LED
- 10. AC power cord
- 11. Directory card
- 12. TALK button
- 13. Occupied LED
- 14. Transmit volume control
- 15. Receive volume control

FEATURES:

- · High power output (10 Watt, 8 or 16 ohm).
- · Single or multi-master capability.
- · Commercial grade, durable master station for heavier usage.
- Single talkpath, with push-to-talk operation at master, and hands free communication at sub station.
- · Large variety of sub stations available:
 - 8 ohm horn speaker with momentary call button (AH-108/NP-B).
 - Surface or ceiling mount (AS-3A, AS-3N).
 - Vandal proof and vandal proof weather resistant sub stations (LS-NVP, LS-NVP-W).
 - Surface mount box for vandal proof stations (SBX-NVP).
 - Dual call sub station (AS-3WA).
 - Any 8 or 16 ohm horn speaker can be used with a momentary call button (requires NP-25V)
- · Selective calling to sub stations, and master-to-master communication.
- · Subs call in with momentary tone and LED, remaining lit for approximately 20 seconds.
- · Master is desk or wall mountable.
- · 10-, 20- and 40-call add-on selectors available.

Individual Components for System:

AP-10MS/C 10-call console-style master station

AP-10AS/C 10-call Add-on Selector AP-20AS/C 20-call Add-on Selector AP-40AS/C 40-call Add-on Selector

AS-3A Single call wall/desk mount sub station

AS-3N Ceiling mount sub station
AS-3WA Dual call wall/desk sub station

LS-NVP(-W) Vandal proof sub station for AP-M system

SBX-NVP Surface mount box for LS-NVP AH-108 8 ohm, 10 Watt horn speaker

NP-B Call in button

NP-25V Non-polarized, 25V, 33 mfd capacitor

SA-1 Surge Arrestor (1 per 2 wires being protected)

BA-1P Paging adaptor

AP-10MS/C TERMINAL DEFINITIONS:

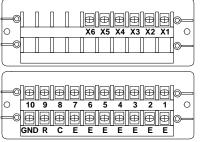
1~10 Station number, establishes communication to other master or sub

C "CALL", for receiving a call from another master

E Common communication

GND Ground terminal

R Control for Occupied light X1~X6 Connection for add-on selector



AP-10MS/C terminal block





NOTE:

Severe weather conditions, such as lightning storms, may cause damage to AP-M/C equipment. We recommend that power surge protection be installed to minimize potential component level damage. SA-1 surge arrestors should be installed on all communication lines (one SA-1 for every two wires connected to master.)

AP-20AS/C & AP-40AS/C TERMINAL DEFINITIONS:

1~40 Station number, establishes communication to other master or sub

X1~X6 Connection for add-on selector:

X1 Red wire

X2 Black wire

X3 Blue wire

X4 White wire

X5 Brown wire

X6 Green wire

WIRING & INSTALLATION:

Before Installation:

- · Make sure you have a proper power source and all necessary and compatible equipment for the system.
- · Lay out your system in advance, assigning station numbers for all sub station locations.
- Surge protection for the intercom equipment is strongly recommended. Add SA-1 surge arrestors per two wires connected to the master station.

Wire:

- Do not make any connections or attempt to install with power connected.
- · Shielded wire is recommended. Use the proper gauge for the distance being run.
- Wiring between masters must be a multi-conductor cable. If more than one cable is used to connect
 masters, the "E", "C", and number terminal wires must be in the same jacketed cable. If necessary, run
 multiple "E" wires, one in each cable.

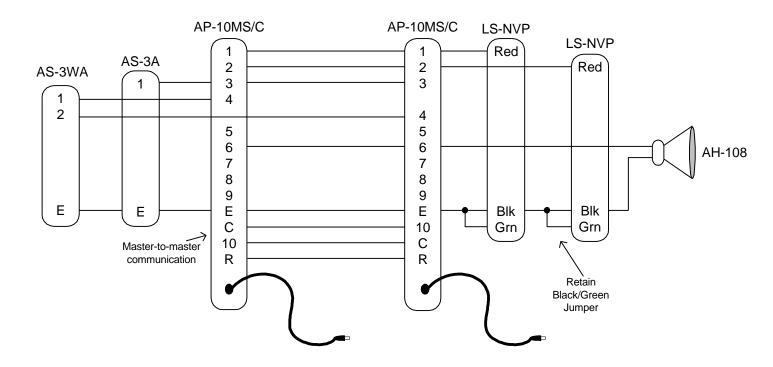
Wiring Method:

- Run intercom cables at least 20" away from all AC wiring, fluorescent lights, dimmer switches, and other electrical or electronic devices. Wiring can cross AC wires at 90 degrees.
- · Sub stations must be homerun to the nearest master station

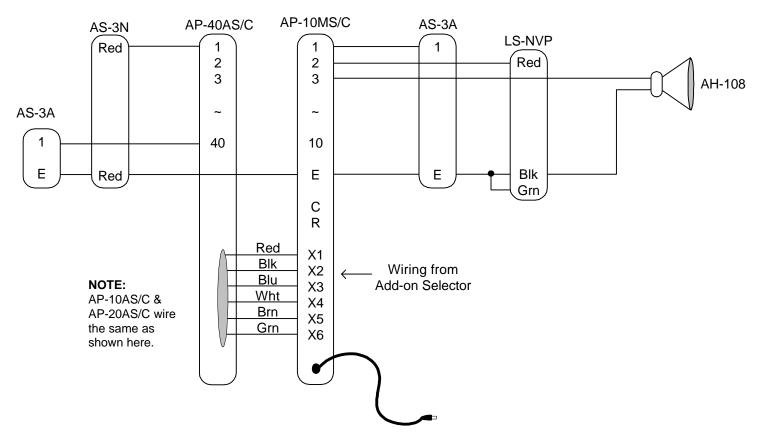
Intercom Locations:

- · Do not install intercoms near dimmer or light switches, or other electrical wall devices.
- · To prevent feedback, do not place any stations back-to-back or on a common wall.
- · Do not mount AP-M/C equipment in the following places, as it may cause the system to malfunction:
 - High or extreme cold temperature areas: under direct sunlight, near equipment that varies in temperature, in front of air conditioner, inside a refrigerated area, etc.
 - Places subject to moisture or humidity extremes.
 - Places subject to environmental conditions, such as dust, oil, chemicals, salt, etc.
- · AP-M/C units are electronic devices, which must not be subjected to water or any other liquid.

3a. TWO MASTER STATIONS WITH SUBS WIRED TO DIFFERENT MASTERS



3b. MASTER STATION WITH ADD-ON SELECTOR



OPERATIONS & SPECIFICATIONS

OPERATIONS:

- * POWER SWITCH MUST BE ON FOR THE SYSTEM TO BE OPERATIONAL.
- Receiving a call from a sub station:
- 1. Sub station calls in with mono-electronic tone, heard as long as call button at sub is depressed.
- 2. LED light corresponding to calling station will light at master, staying on approximately 20 seconds.
- 3. Depress station button with lit LED.
- 4. Press TALK button to speak, and release to listen.
- 5. Press OFF button to the left of the station selector button when the call is concluded.
- Calling a sub or master station:
- 1. Depress station number of the location you wish to call.
- 2. Press TALK to speak, and release to hear reply.
- 3. If you wish to send a pre-announce tone to the called station, press the CALL button. A mono-electronic tone will be heard at the called station.
- 4. Press OFF button to the left of the station selector button when the call is concluded.
- Receiving a call from another master station:
- 1. When one master calls another master, no station LEDs light up, and the responding master answers back hands free. The calling master uses the TALK button to speak.
- 2. The "occupied lamp" will be on while the initiating master has a station selected.
- 3. The responding master should not press any buttons to respond to another master's call.

SPECIFICATIONS:

Power Source: 110V AC

Aiphone Communication Systems

1700 130th Ave. N.E.

Power Consumption: 45W (Max.), 4W (Standby)

Communication Output: 300mW at 8 or 16 ohms (receive from subs and master to master)

10W at 8 or 16 ohms (transmit to subs)

Communication: Push-to-talk, release-to-listen (TALK button), hands free at sub station.

Master to sub or other master: By voice (TALK) or tone (CALL) Calling:

Sub to master: Call button on sub activates tone and LED at master,

remaining lit for approximately 20 seconds.

Wiring: One pair homerun from sub stations

(Single call subs to nearest master, dual call subs to both masters)

2 pair plus one pair for each station; master to master

Twisted, Shielded cable is recommended.

510' with 22AWG; 1,225' with 18AWG. Wiring Distance:

Dimensions: AP-10MS/C: 10" x 11" x 5-1/2". AP-10AS/C: 10-1/4" x 7" x 5-1/2".

> AP-20AS/C: 10-1/4" x 7" x 5-1/2". AP-40AS/C: 10-1/4" x 12-7/8" x 5-1/2".

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.

This warranty shall not apply to any Aiphone product that has been subjected to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone.

Aiphone will not be responsible for any costs incurred involving on-site service calls.

TOLL FREE TECHNICAL SUPPORT:

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