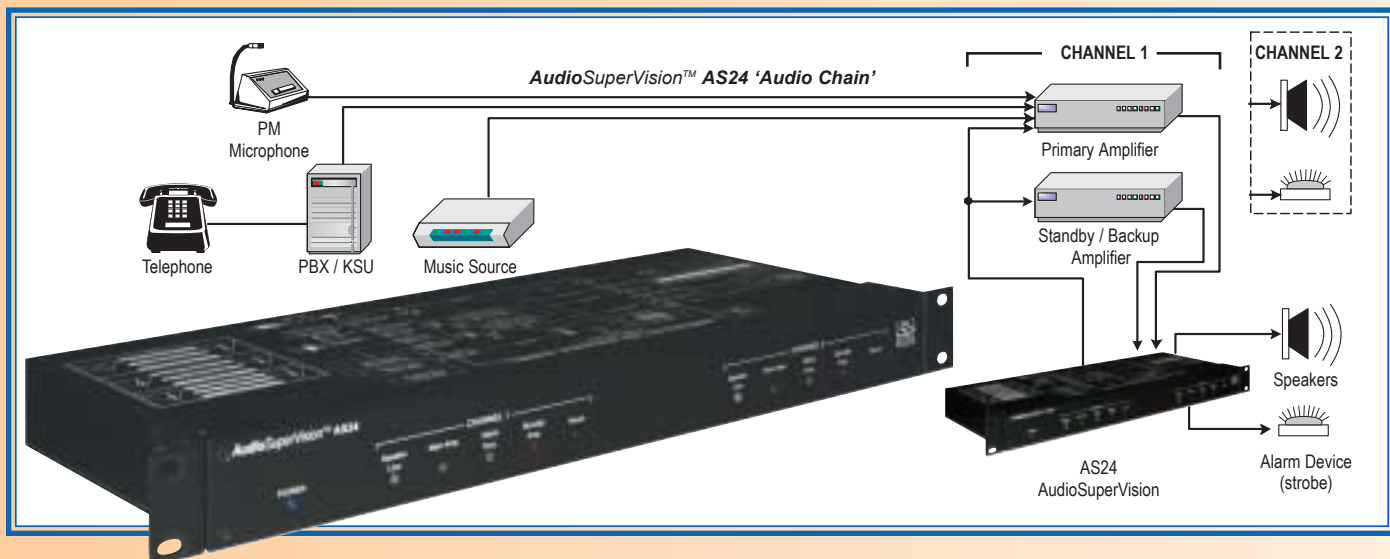




SPECIFICATION SHEET

AudioSuperVision™ Model AS24

AudioSuperVision™
Model AS24



PERFORMANCE

AudioSuperVision™ Model AS24 is a high quality, two channel continuous monitoring device. It is engineered to provide cost effective and constant 24/7 supervision of distributed loudspeaker systems that are critical such as emergency public address, paging and or noise masking functions in government, commercial and institutional facilities.

The AS24 supervises the main and standby amplifiers while analyzing critical internal and external speaker wiring for shorts and opens. Any failure in amplifier output or speaker wiring is detected, triggering automatic internal and external corrective action and alarm activation. Corrective actions include automatic hot switchover to standby amplifier(s) within a predetermined time (adjustable to avoid false alarms)

and simultaneous activation of multiple alarm outputs, which may be visible and/or audible.

The AS24 delivers two independent monitor channels with unique 19kHz detection tones calibrated to trigger immediate corrective action whenever a 1dB change in power is detected. The unit is capable of switching power loads up to 700 watts nominal, per channel, within 5-30 seconds while activating audible and/or visible alarm outputs within 5-90 seconds (adjustable). Front panel LED's provide visual indication of amplifier and speaker wiring health status on a per channel basis along with independent per-channel manual reset buttons.

The AS24 is fully compatible for use in any 100V, 70V, 25V distributed constant voltage loudspeaker

system, in 'balanced' operation from a line voltage of 120VAC at 60Hz nominal. The unit is powered by a separate 15VAC, 1 Amp, UL/CSA power supply (provided). All input and output wiring connections are accomplished via robust 300V/15A two-piece dockable connectors. Sensitivity volume adjustments are made via screwdriver controls in the rear panel. The AS24 is housed in a 19"w x 1.75"h 1RU chassis for mounting in EIA racks and cabinets. It is made of lightweight corrosion resistant aluminum with black powder coat paint and features a 'signal flow' diagram on the top for permanent technical reference. Adjustable rack mounting ears allow standard or offset mounting in a rack and vertical or horizontal installation on a wall.

Applications

- Critical paging systems in industrial factories, retail and institutional settings.
- Emergency public address systems in transportation and government facilities.
- Sound reinforcement systems in entertainment, stadium and cinema venues.
- Noise masking / paging systems in office, healthcare and commercial buildings.

Features

- **INSURES** critical systems never go down by providing an automatic "hot swap" of backup amplifiers.
- **DETECTS** a system failure and immediately alarms people to the problem via audible and/or visible alarm devices.
- **ALARMS** key personnel to speaker wiring failures such as opens, shorts and disconnects.
- **PERFORMS** reliably 24/7 without the added cost and complexity of computer software and/or control systems.
- **COMPACT** chassis (19"w x 1.75"H) requires minimal rack space (1RU).
- **VERSATILE** mounting with adjustable brackets for rack or wall installation.
- **QUICK** operational reference provided by the 'signal flow' diagram on the top plate.
- **CREATED** and manufactured in the United States.

A & E SPECIFICATIONS

The supervision device for critical loudspeaker systems shall be System Devices Model AS24. The device shall provide 24-hour x 7-day supervision of critical distributed (25V, 70V, 100V) loudspeaker systems. The two-channel device shall supervise main and standby amplifiers and shall analyze speaker wiring for connection breaks, opens or shorts. Problems detected by the device shall initiate automatic corrective action and activate optional audible and/or visible alarms. Corrective actions shall

include automatic hot switchover of power loads up to 700W per channel to standby amplifiers within 5-30 seconds of detecting a 1dB change in power. The device shall provide three independent contact closures per channel which shall simultaneously activate audible and/or visible alarms within 5-90 seconds. The device shall be powered by a separate 15VAC, 1 Amp UL/CSA Listed power supply provided. Input and output wiring connections shall be 300V/15A two-piece dockable connec-

tors. Sensitivity volume adjustments shall be screwdriver adjustable. The front panel shall include a manual reset button per channel and amber, blue, red and green LED's for visual status indication per channel. The chassis shall be 19"w x 1.75"h (1RU) x 5.5"d and be suitable for 19" rack or wall installation. The chassis shall be formed from corrosion resistant aluminum with a black powder coat finish and a screened 'signal flow' diagram on the top for permanent technical reference.

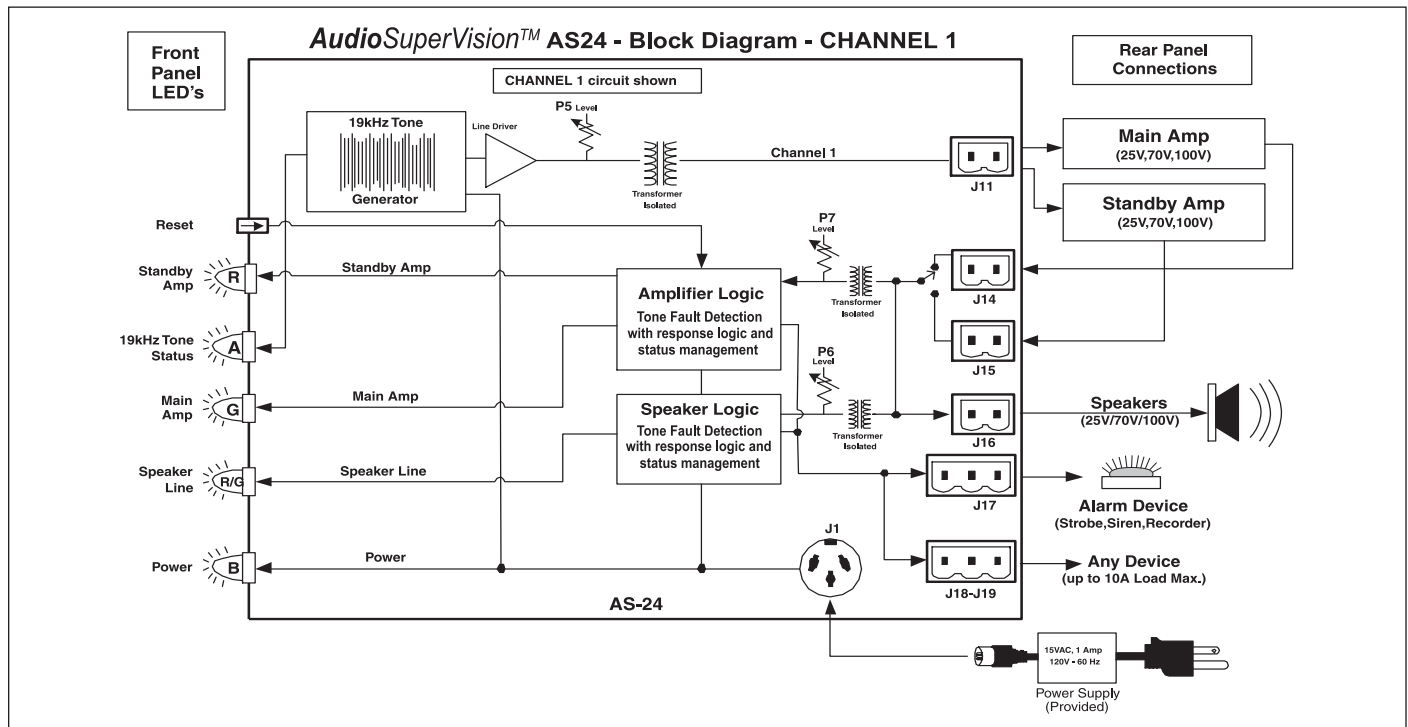
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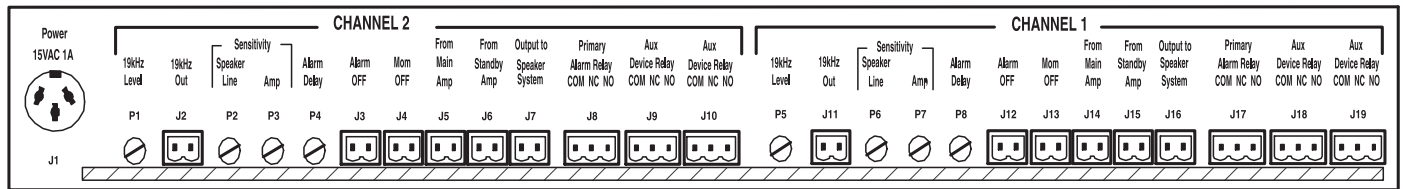
SD-AS24

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Specifications subject to change

AS24 SIGNAL FLOW DIAGRAM



AS24 REAR PANEL



AS24 TECHNICAL SPECIFICATIONS

- Power:**
 - Power Range Selectable per channel (x2) 0W - 700W per channel
 - Input Power 15VAC -DC, 1 amp
 - Power Consumption < 15 watts @ 120VAC nominal
 - Internal Fuse 0.5 amp slow blow type per channel
- Frequency:**
 - Supervision FQ 19kHz
 - Supervision Level 5mV to 50mV into 47k ohms
 - Input FQ Medium to Hi-Z @10k ohms
- Detection Circuit:**
 - Input signal 40mV
 - Supervision Range 0.5dB to 12dB maximum
 - Detection tone 19kHz
 - Tone Sensitivity 1dB nominal
- Input / Output Connections:**
 - Supervision Tone 19kHz tone per channel via 2-pin dockable connector
 - Amplifiers Main and standby amplifier inputs via 2-pin dockable connector
 - Alarm Alarm 'delay' and 'off' per channel via 2-pin dockable connector
 - Speakers Speaker output per channel (25V/70V/100V) via 2-pin connector
 - Aux Relays (Alarm) (2) Form-C contact closure relays per channel via 3-pin connector
 - Power Circular 3-pin DIN connector
- Controls / Indicators:**
 - LED's Front panel Amber, Blue, Red and Green status indicators per channel
 - POT's Rear panel screwdriver adjustable POT's (flat head) for amplifier and speaker sensitivity per channel
 - Reset Front panel recessed button per channel
- Mechanical:**
 - Dimensions 19" (w) x 1.75" (h) x 7.5" (d) [48.3 cm x 4.4cm x 19.1cm]
 - Weight 4.9 lbs. [2.23 kg] w/o carton
 - Shipping weight 8.2 lbs [3.74 kg] w/carton
 - Operating Temp. <86° F (30° C)
 - Storage Temp. 32° - 122° F (0° - 50° C)
 - Humidity 95% non-condensing
 - Metal Corrosion resistant aluminum
 - Finish Black powder coat paint