AudioControl®

Making Good Sound Great™

ARCHITECT™ MODEL P250 EQ

2 CHANNEL HIGH CURRENT POWER AMPLIFIER

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or glasses, shall be placed on the apparatus.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN.
ATTENTION: RISQUE DE CHOC, NE PAS OUVRIR.

Caution: to reduce the risk of electric shock, do not remove the top cover. There are no user-serviceable parts inside. Refer servicing to qualified personnel.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this device not expressly approved by AudioControl Inc. could void the user's authority to operate the equipment under FCC rules.

Recycling notice: If the time comes and this apparatus has fulfilled its destiny, do not throw it out into the trash. It has to be carefully recycled for the good of mankind, by a facility specially equipped for the safe recycling of electronic apparatii. Please contact your local or state recycling leaders for assistance in locating a suitable nearby recycling facility. Or, contact us and we might be able to repair it for you.

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Model P250 EQ

Installation Manual

Congratulations!

You are now installing a component which will dramatically improve the performance of any distributed audio system, especially those utilizing small aperture, in-wall, in-ceiling, and even invisible speakers.

The Architect model P250EQ is a versatile 2 channel amplifier that can play into 8,6,4 or 2 ohms. That gives you an unprecedented level of flexibility when designing your system as it can adapt to whatever loads you throw at it. Plus, while providing this high level of power, you get all the legendary qualities of AudioControl engineering - pristine sound quality, analog and digital inputs, priority signal sense switching, some simple EQ and SDS priority switching to handle event based audio sources.

This amplifier is an American-designed and built, "set and forget" component which will provide a lifetime of trouble-free service for your large zone audio system.

The Architect model P250 EQ is designed and manufactured by AudioControl, the only electronics company in the world that specializes in amplifiers, equalizers, signal processors and audio analyzers. Our passion for high quality, meticulous attention to detail, and pro sound heritage shows itself in the dozens of awards we have won for our designs, products, and service. Now, as when we begin, our greatest satisfaction is our reputation for sonic excellence and reliability among people just like you throughout the world.

This manual is designed to help you get the best out of this amplifier. So, even though you're wanting to see it in action, please take a few minutes to slog through our not-so-weighty prose and learn how to get the most from your Architect power amplifier.

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Features

Here are some of the features that make the Architect Model P250 EQ a unique product, unlike any other amplifier:

- **High Current Design**
  Very demanding speaker loads can make most amplifiers quite unhappy, presenting you with continual cut outs or worse! The High Current Drive circuitry of this amplifier means it'll power through speaker loads that most other amps simply can't handle.

- **Glorious IO options**
  Digital, analog, SDS! Want to output a single source to multiple Architect Model P250 EQs? No problem. Loop outputs are available for digital or analog sources, allowing you to daisy-chain multiple amplifiers, or output to a multichannel amplifier.

- **Unparalleled Energy Efficiency**
  In terms of saving electricity or reducing heat in the rack, the Architect Model P250 EQ has no equal…

- **Signal Sense Switching**
  This feature will switch between the two main input stages - the analog and the digital stage. You can connect an analog source and a digital source and the unit will always switch to the prioritized input whenever a signal is sensed there. Set the prioritization with the Input Priority switch.

- **LightDrive™ Anti-clipping**
  With durability in mind, AudioControl's LightDrive anti-clipping protection defends the system against clipping, distortion, damage, and even teenage parties. The Architect Model P250 EQ features the latest evolution of LightDrive which adds a power-supply-tracking instantaneous dynamic control to the smooth sound of the traditional AudioControl LightDrive.

- **Self Resetting Protection Features**
  Protection features are extensive and include thermal, short circuit, clipping, ultrasonic and DC offset among others.

- **Pacific Northwest Heritage**
  Hard to believe, but we make this product in the USA. We are very proud of that fact. What is more important is the care we craft in at every step, and the extensive knowledge we have in all aspects of the product. Plus, we back this up with a conditional five year warranty.
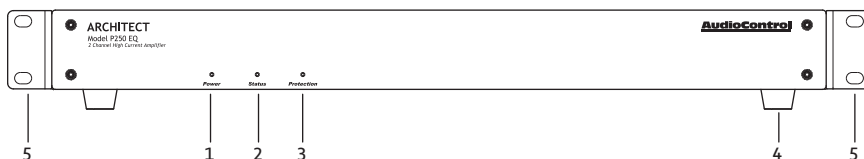
Complimentary bullet points

- 2 channels of AudioControl ampli ication
- High Current design
- Efficient power ampli iers and power supply
- Rack mountable 1U form factor
- Removable rack ears
- Less depth than traditional rack mount type amps - perfect for spice cabinets
- Stackable - up to 4 units
- Signal sense turn on
- Selectable EQ presets
- Loop outputs - both analog and digital
- 12V Master trigger
- S/PDIF input with premium Wolfson digital to analog converter
- Input prioritization and signal sense switching
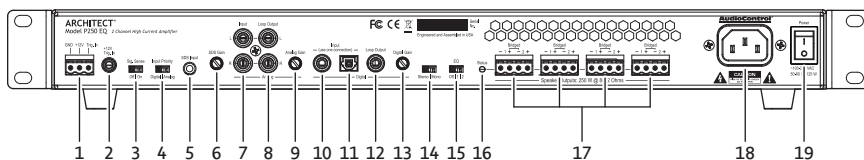- SDS input - automagically switches for event based audio

Quick View

Front Panel

1. Power LED
2. Status LED
3. Protection LED
4. Feet (removable)
5. Rack Mount Ears (removable)

Rear Panel

1. Master Trigger
2. +12V Trigger Input
3. Signal Sense On/Off
4. Input Priority
5. SDS input
6. SDS Gain control
7. Analog Input
8. Analog Loop Output
9. Analog Gain Control
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11. Optical Input
12. Digital Coaxial Loop Output
13. Digital Gain Control
14. Stereo Mono Switch
15. EQ Preset Selection Switch
16. Speaker Output Status LED
17. Speaker Outputs
18. AC Power Inlet
19. Power Switch

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Getting Started

1. ⚠ Turn off power to all components before making any connections.

2. When making connections, designate red RCA plugs as right, and designate white, black, or gray plugs as left. This is a good idea for all signal connections made in your audio system. The key is consistency. Stick with the same color coding and you'll reduce possible problems.
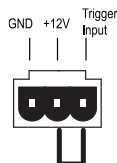
3. Whenever possible, keep power cords away from signal cables to prevent induced hum. This is especially important if you bundle the cables to keep the installation neat looking.

4. Use quality interconnect cables. We know from experience that really cheap cables can cause a multitude of problems. They tend to break inside or corrode, causing a loss of signal or hum. They also have poor shielding.

5. If you need to run the RCA audio cables more than 20 feet, consider using an active balanced line driver for the signals. This will provide better noise rejection against nasty things like hum, spikes, local talk radio, and metaphysical paranormal phenomena, etc. The AudioControl balanced line driver components (BLX-1K) are an excellent way to send audio over long distances with standard Cat-5 wiring. Check them out at audiocontrolpro.com.

6. If you are using the digital input, and running higher resolution sample rates (96 kHz - 192 kHz), use high-quality digital interconnect cables.

An Important Note about Triggering

The rear panel master trigger connectors (TS 1/8" and a 3-pin block) are used to turn on the unit or place it into standby mode.

If no trigger voltage is present at any of these trigger inputs, then the unit will be in standby, with all zones muted. If you are not using master triggering, then you **must** install a short wire link from the 12V output pin to the trigger input pin of the 3-pin connector.

To put the unit into standby, remove the link.

GND +12V Trigger Input

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Installation Examples

The next page shows two typical installations of the Architect Model P250 EQ.

The first example is a home installation with a large living/dining room space that is set up as a single zone powering 8 small aperture speakers. Volume and source control is done through The Director M6800 via it's digital output.

The second example small bar where there are 3 sources connected to an audio matrix controller where output source selection and volume control is located.

Home Installation

Audio System Controller

Source Inputs   Analog Source Outputs

CD Player   Satellite   Music Server

8Ω Speakers

Commercial Installation

Digital Source Output

Dining Room North   Dining Room South   Kitchen North   Kitchen South

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Front Panel Features

1. **Power LED** – This dual color LED indicates when the unit is in standby, on, or off.

    Red: The unit is in standby mode and is ready to be turned on via 12V triggering

    Blue: The unit is on

    Green: Coffee brewed

    OFF: The unit is powered off

2. **Status LED** – This dual color LED will illuminate blue when the unit is out of standby and the amp is powering speakers or is ready to power speakers. This LED will illuminate red when there is a short somewhere along the speaker wire. If you see this flicker red or is in a fixed red state, double check the speaker and speaker wire for a short.

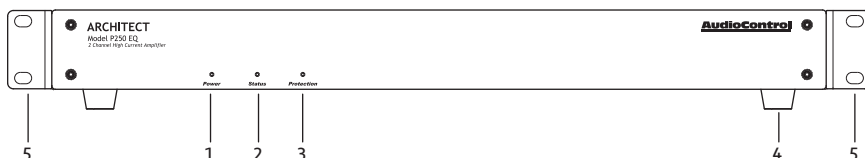3. **Protection LED** – This single color LED illuminates when there is a problem. After trying to play into a short for instance, the protection LED will show red and the amp will stop producing power. Both status and power LEDs will turn off in this state. Turn off the main power, give it a minute, remove speaker wires and source connections, then reboot. The protection state should be released and you can now troubleshoot.

4. **Removable Feet** – Best make sure that if you do remove the feet, you still have a slight air gap between stacked components.

5. **Rack Mount Ears** – The unit comes supplied with removable rack mount ears. These allow the unit to be rack mounted in a standard 19" wide rack, with a 1U height. Use standard rack mount screws and washers to secure the unit in a rack. The unit does not have to be supported at the rear if the rack is located in a fixed location.

    To remove the rack ears (making the unit 17" wide), first unplug the power cord, and then locate and undo the four screws securing each ear to the side of the chassis, and remove the ears. Replace the screws securely back into the chassis. Do not remove any of the other screws from the chassis or top cover. There are hazardous voltages inside the unit. Keep the rack ears carefully wrapped up in a sock under your pillow. Make a wish and the rack ear fairy may come.

Rear Panel Features

1. Master Trigger – This 3-pin block connector is used to turn on the unit or place it into standby mode. You can also use the 1/8" TS trigger to turn the unit on and off too. If no trigger voltage is present at either jack, then the unit will be in standby, with output muted.

To remotely turn on the unit, use either a contact closure between the Trigger Input and the +12V output, or an external +12V trigger between the Trigger In and GND terminals. To turn on and keep it on , jump the 12V output to the 12V input - but keep in mind the 12V output is not designed to power other pieces of equipment or jump start your car.

Pinout:
GND Ground
+12V Output
+12V Trigger Input

2. 1/8" TS Trigger – If you have an automation system or source device with a 1/8" TS trigger output, you can use this trigger input to turn on and off the Architect P250 EQ instead of the Master Trigger 3 Pin connector.

Pinout:
Tip = +12V Trigger Input
Sleeve = Ground
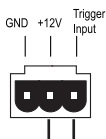
Power Up Process: When a +3 to +12V signal is sensed at the trigger input of either 1/8" TS connector, or the 3-pin connector, the Architect P250 EQ will turn on. The outputs will be held in standby for about 2 seconds until the power supplies have fully charged and performed their self-tests. During this short process, the front panel Power LED will be red briefly. When complete, the Power LED will turn a relaxing blue. Status LED will be off during this time. Once the Architect P250EQ is fully powered up, the Status LED will illuminate Blue if Signal Sense is off. If Signal Sense is on and there is a signal present, then it will also be Blue. If however Signal Sense is on and there is no signal present during boot up, then the Status LED will not illuminate.

3. Signal Sense Switch – This switch controls whether the zone is always active when the master 12V trigger is active, or if the zone stays in standby until a signal is sensed. If signal sense is on (switch right) the zone will stay in standby until an audio signal greater than 5 mV is detected. The zone will remain active whenever a signal is present. After two minutes with no signal detected, the zone will return to standby.
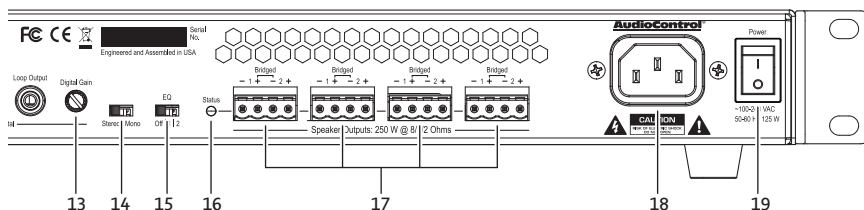
4. **Input Priority Switch -** Specify the active input stage you have from your source here. If you are using either the optical or digital coaxial input, select digital. If you are using analog RCA Inputs, select analog. If you are using both and want to switch between the two input stages, select the one you want to be prioritized. If the non-prioritized input is active then the prioritized input becomes active, the prioritized input will cause the input stage to switch to the prioritized input.

5. **SDS Input -** Use this input with event based audio sources like voice-notification products, paging systems, and doorbells. Connect your product here and the audio from the analog or digital input will mute when a signal is sensed on this SDS input. That SDS audio will now become the active input. After 2 to 3 seconds of no content from this input, the active source switches back to the analog or digital input. Great for door bells, voice enabled devices or periodic applause tracks.

6. **SDS Gain** – Control the gain of the SDS Input source here to balance out the volume of that source vs the analog or digital input. You can make it louder or quieter with this control.

7. **RCA Input -** connect your line level analog input here with RCAs.

8. **Loop outputs** - These unbuffered loop outputs will pass the content from the analog inputs right back out to any downstream device

9. **Analog Gain Control** - Use this control knob to increase or decrease the input gain of the analog input stage. Turning up this control knob will increase the signal to the amp stage. Take care not to clip this input stage as maxing out your gain with a common signal from a streamer for example will likely bring about the objectionable sounds of a distorted input. You will also increase your noise floor by turning up this control. Leaving at the default detente is really the way to go. If you are using a phone as your source - you would turn this up. If the source is coming from a analog matrix distro - leave at detente or turn down a touch.

10. **Digital Coaxial Input** - For sources with Digital Coaxial outputs, you can connect it to this digital input. Make sure to use a Digital Audio RCA cable as the impedance is tightly control and will make the connection robust. Using a standard RCA may be OK for a while but you're sure to a get a drop out or two. Using the right cable will eliminate many troubleshooting steps.

11. **Optical Input** - For those sources with a Toslink Optical digital audio output, connect that source to this input.

12. **Digital Loop Output** - This loop out will pass through either digital audio input - the Digital Coaxial or the Toslink Optical inputs.

   ***Important note - the loop outputs - analog or digital - are not effected by the Gain controls

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13   14   15   16   17   18   19

13. Digital Input Gain Control - This knob will boost or cut the gain for the digital input stage. Best leave at detente and double check full system volume before making adjustments to this control.

14. Stereo/Mono Switch - If you have a large zone where left and right imaging isn't feasible, switch it over to mono. Switching to Mono will give you a summed stereo signal on both the left and right channel outputs. When running **bridged**, set this to mono as well.

15. EQ Switch - Use this to setting to Bypass the EQ circuits (OFF) or engage the EQ (1 and 2). These EQ presets were developed over many years and many installs. EQ 1 is a loudness curve - boosting the bass and treble a bit. EQ 2 is a bass-boosting curve, giving a bit of extra power to small speakers.

16. Status LED - This illuminating LED will shine brightly when the amps are charged and ready to output or as content is output through the speaker level outputs and mirrors the front panel status LED.

17. Speaker outputs - Connect your speakers here! These speaker outputs are internally wired in parallel. Each output terminal is connected to left/right amplifier channels (2 channels). Up to 4 pairs of 8 ohm (not 4 pairs of 4 ohm) speakers can be connected to these terminals (one pair per terminal) for complete zone coverage. The Architect Model P250 EQ can drive low impedances, even down to 2 ohms, offering you a lot of flexibility for large single zone and distributed small aperture speaker system designs.

Bridged operation - connect the speaker to the center two pins of the speaker level output. There is a U bracket on the silkscreen to guide you.

When rack-mounting the unit, make sure that the power cord and the AC power switch remain readily accessible.

18. AC Inlet - Connect the supplied AC power cord securely to this input. Plug the other end into an AC mains outlet. The power supply operates at both 110V and 220V - no switches. Just plug it in to our main AC outlet and you are off and running.

19. AC Power Switch - This switch shuts off the main AC power. Likely the only time you need to turn this off is if the system is going to be shut down for an extended period of time.

Speaker Wiring and Impedance

Speaker impedance often is and should be straight forward. Speakers, like other resistors, if wired in parallel "show" lower values than the individual components. Here are two examples for calculating speakers wired in parallel:

Calculating Impedance

For three 8 Ohm speakers wired in parallel (pluses connected to pluses) the impedance is 1/8 + 1/8 + 1/8 = 3/8 Then take the inverse or 8/3 = **2.66 Ω**

For two 8 Ohm speakers wired in parallel (pluses connected to pluses) the impedance is 1/8 + 1/8 = 2/8 Then take the inverse or 8/2 = **4 Ω**

Often the real world is more complicated than theory, and for speakers this is the case. An 8 Ohm speaker is not 8 Ohms at all frequencies. Plus passive crossover networks add their own changing conditions.

Be aware of speakers that have significant dips from "nominal" values in portions of their frequency range, and speakers that are rated at unusual impedances, for example 3.5 Ohms. The Architect P250 is tolerant of lower impedance loads, however, all good designs use some margin of error.

The P250's amplified outputs all run parallel to each other— all channels labeled 1 are connected, and all channels labeled 2 are connected. If plan to use all 8 outputs on the amp, **you must use speakers with at least 8Ω of impedance.**

Your choice of speaker wire gauge and the length of the runs, also affects the speaker impedance load presented to the amplifiers, as you the table below describes. Take this into account in your design!

Speaker Wire Resistance:
Wire Gauge versus Run Length

Wire Gauge	Run Length				
	25'	50'	100'	250'	500'
24 GA	1.3Ω	2.6Ω	5.1Ω	12.8Ω	25.7Ω
22 GA	0.8Ω	1.6Ω	3.24Ω	8.1Ω	16.0Ω
20 GA	0.5Ω	1.0Ω	2.0Ω	5.0Ω	10.1Ω
18 GA	0.3Ω	0.6Ω	1.28Ω	3.2Ω	6.4Ω
16 GA	0.2Ω	0.4Ω	0.8Ω	2.0Ω	4.0Ω
14 GA	0.1Ω	0.25Ω	0.5Ω	1.26Ω	2.5Ω
12 GA	0.08Ω	0.16Ω	0.32Ω	0.8Ω	1.6Ω

Ventilation

This may be as good a time as any to have "the talk" about ventilation. The Architect model P250 EQ features a cool-running efficient switch mode power-supply and Class D amplifiers, and is equipped with thermally controlled fans. This is a powerful 2 channel amplifier, and therefore requires plenty of good ventilation to properly cool.

⚠ Please be advised that no more than 4 Architect may be stacked together. Any more than that, then an empty rack space above and below is required for adequate ventilation.

⚠ Review the heat load specifications and ensure that your rack room meets these requirements.

If the amplifier should overheat, a thermal sensor will put it into standby mode, allowing the heatsink to cool down. Once the amplifier has cooled to a safe operating temperature, the amplifier will reactivate. If this occurs often, identify the cause of the problem and take corrective action, for example:

- Provide additional ventilation
- Do not install in a sealed location with limited or no airflow
- Install a fan in the rack
- Make sure that the amplifiers are not overloaded with speaker impedances below the recommended minimum
- Check that there are no short circuits in the speaker cables or speakers. Note: Each zone will shut off independently when a short circuit is detected.

⚠ No more than four units can be stacked without a rack space between them. Allow 1U rack space or more above and below each stack of four.

Ideal Spacing 1U rack space or more above and below each pair

1U

1U

1U

1U

1U

1U

Block Diagram

Digital Loop Output

Digital Input

Analog Loop Output

Analog Input

SDS Input

Digital transceiver

DAC

Gain

Gain

Gain

Signal Sense Priority switch

SDS Detection Switch

EQ2

EQ 1

Flat/No EQ

Amplifiers

Speaker Outputs

Troubleshooting

Many problems can be eliminated by re-checking the wiring and settings of the unit. If a problem cannot be solved using the guide below, please call the AudioControl team for further assistance, or e-mail us at techsupport@audiocontrolpro.com

1. **No Sound**

   a. Verify the Power LED is Blue.

   b. Verify Status LED is Blue.

   c. Verify Protection LED is Off.

   d. If you are not using master triggering, check that there is a wire link between the +12V pin and the Trigger Input pin of the Master Trigger 3-pin connector block.

   GND +12V Trigger Input

   Wire Link

   e. Verify the source unit is operating.

   f. Check the speaker connector plugs on the rear panel.

   g Unplug the power cord and leave for 1 minute. Reconnect power and turn the unit on and check for audio.

2. **Protection LED is off, but none of the Zone Status LEDs are on:**

   a. Defeat the signal-sense circuits using the zone DIP switches on the rear panel. All of the zone status LEDs should turn on. If not, call AudioControl's customer service.

   b. Verify the source unit is operating.

   c. Increase the preamp volume if signal sense is engaged, or just going steady.

   d. Adjust the rear panel zone gain controls clockwise.

3. **Channel Status LED is Red:**

   a. Check speaker leads for a short. Swap speaker connectors on rear to see if the problem moves with the wires.

   b. If the unit is excessively hot, turn down the volume and allow it to cool off. The Status LED should turn off after a short while. Verify that any ventilation holes have not become blocked.

   c. The speaker impedance may be too low. Use an Ohmeter to measure the impedance on the speaker wires.

4. **Speaker channels are cutting in and out:**

   a. If using external volume controls, check that they can handle the power output.

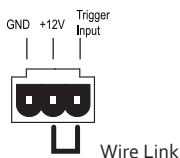   b. Make sure the speaker impedance is not less than 2 Ohms, or 4 Ohms when used in bridged mono.

   c. There may be a short in the wires. Suspect a short if the problem happens only at the highest volumes.

5. **Protection LED is Red:**

   a. Disconnect power from the unit for 3 to 4 minutes and reconnect to power.

   b. Disconnect all speaker wires. If it still turns red, and the unit has cooled, something rather serious has happened inside the unit. Call AudioControl's lonely folks in customer service.

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6. **Speaker Buzzing or Crackling at high volume:**

   a. Set EQ to Off or turn off any pre-amplifier/equalizer low-frequency boost that might be happening in an upstream device.

   b. Reduce the gain on the active input.

   b. Take a moment and remove the cod deep frying from your kitchen stove and listen again.

7. **There is no audio input signal, but the Zone Status LED are still blue:**

   a. Check the signal-sense switches on the rear panel. If they are not engaged, the zone status LEDs will stay on as long as the master trigger is enabled.

   b. The zone status LEDs stays on for 2 minutes (depending on music volume) after the audio signal has stopped. This delay helps prevent prematurely muting during quiet passages or song changes.

8. **The unit is on but you cannot trigger it off**

   The unit will stay on if either the 12v master trigger is on, or jumpered on.

9. **Is an in-wall volume control rated at 100 Watts (continuous) adequate?**

   • Not at all. Go for one with a higher rating of about 300 watts if you want a reliable long-lasting system. Although the Architect model P250 EQ is rated at 250 Watts, it is a conservative number. In contrast to the conservative rating of the Architect model P250 EQ, the wall volume control may be rated using favorable assumptions. Also make sure the volume control power rating is continuous not peak. The continuous rating is about one-third of peak.

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P250 EQ Specifications

Inputs

Inputs....... 1 Analog Stereo Main, 1 Digital Main (Coaxial / TOSLINK), 1 Analog SDS

Analog Input Sensitivity.....................1 Vrms for full output, level at maximum Ohm

Gain ....27 dB

Outputs

Amplifier Channels 2

Power Output ....180 W per channel into 8 Ohms

250 W per channel at 4/2 Ohms

500 W Bridged Mono at 8/4 Ohms

Minimum Speaker Load: .... 2 Ohms

Performance

Frequency Response .... ±0.25 dB, 20 Hz to 20 kHz, 8 Ω Load

Signal to Noise ....110 dB, A-weighted, ref Full Output +/- 3db

THD+N @ Rated Power ....<1% @ 8 Ω per ch.

<0.2% @ 4 Ω per ch.

<0.07% @ 2 Ω per ch.

Crosstalk..>80dB @ 1 kHz

DAC Specs...32 to 192 kHz sample rate, 16-/24-bit depth

Control

Remote Power Trigger .... +12 VDC

General

Power Consumption (Standby).. 1.5 W

Power Consumption (Idle / All Channels Off)... 18 W

Power Consumption (All Channels Active) ....24 W

Power Consumption (loud listening level)..87 W

Power Consumption (maximum)..591 W

BTU/Hour Heat Dissipation (Standby)..5.1

BTU/Hour Heat Dissipation (Idle / All Channels Off)..61

BTU/Hour Heat Dissipation (All Channels Active)..82

BTU/Hour Heat Dissipation (loud listening level) 108

BTU/Hour Heat Dissipation (maximum) 268

Protection: clipping, short circuit, thermal, ultrasonic, DC offset, stable into reactive

or mismatched loads

Dimensions

Height ....1.75" (1U)

Width (ears on) .... 19.0"

Width (ears off)... 17.0"

Depth .... 13.5"

Weight... 15 lbs (6.8 kg)

Please note: Because of AudioControl's bold and daring quest to push back the frontiers of audio perfection, all specifications are subject to change without notice, and at any time, including (and not limited to) breaktime, lunchtime, and afternoon tea in engineering.

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What to do if you need service

First, if you need service, it is probably best to go and see a trained health care professional.

If the Architect Model P250 EQ needs service, then please contact AudioControl, either by e-mail or phone. We will verify if there is anything wrong in the system that you can correct yourself, or if it needs to be sent back to our factory for repair.

If it does end up that it needs to return home for some care, make sure that the nice and friendly tech support folks provide you with an RMA number. They'll want to give you one so you and they can track the product, know when it's arrived, give you a call should any questions arise and stuff like that.

Please include the following items when returning the unit:

1. An RMA number — if this is not included, there will be lots of head scratching done by our receiving team, and the product may be returned to you unrepaired.

2. A brief explanation of the trouble you are having with the unit. (You'd be surprised how many people forget this.) If you can supply a really detailed description of the problem, this would be so much better, and our service technicians may add you to their Christmas Card list. Please include any notes about the system, whether or not pineapple is really a pizza topping, and other components you are using. Is it an intermittent problem that only occurs on the first full moon of Spring?

3. A return street address. (No PO Boxes, please).

4. A daytime phone number in case our technicians have a question about the problem you are having, or if they are just feeling lonely.

5. Package the unit in the original packaging if you still have it, and if the cat hasn't had three litters of kittens in the box. Use great care and plenty of good packing materials to protect the unit and prevent it from moving about inside the box. Do not use loose materials like packing peanuts or real peanuts.

   If you do not have the original packaging, fear not, send it an appropriately sized box with proper packing materials, and clearly label the outside of the package with your RMA number.

If the amplifier is being returned for out of warranty service, you are responsible for the freight charges to us, but we'll pay the return freight back as long as the unit is under warranty.

Repair service is available at:

Attention: Service Department

22410 70th Avenue West, Suite 1

Mountlake Terrace,

WA 98043 USA

Phone 425-775-8461

FAX 425-778-3166

e-mail: techsupport@audiocontrolpro.com

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The Warranty

In just the same way as being covered in honey and thrown into a dark pit full of hungry woodchucks, people are scared of warranties. Lots of fine print. Months of waiting around. Well, fear no more. This warranty is designed to make you rave about AudioControl. It's a warranty that looks out for you and your client, plus helps you resist the temptation to have your friend Sparky, who's "good with electronics," try to repair your AudioControl product. So go ahead, read this warranty, and be sure to keep all your documents in a safe, dry place.

Our warranty has conditional conditions! "Conditional" doesn't mean anything ominous. The Federal Trade Commission tells all manufacturers to use the term to indicate that certain conditions have to be met before they'll honor the warranty. If you meet all of these conditions, AudioControl will, at its discretion, repair or replace any AudioControl products that exhibit defects in materials and/or workmanship during the warranty on your product for five (5) years from the date you bought it, and we will fix or replace it, at our option, during that time.

Here are the conditional conditions:

1. You need to hold on to your sales receipt! All warranty service requires original sales receipt documentation. The warranty only applies to the original purchaser from an authorized AudioControl dealer. Note: Products purchased from unauthorized dealers are not covered under warranty.

2. If an authorized AudioControl dealer installs your AudioControl product, the warranty is five years.

3. Our warranty covers AudioControl products that have been installed according to the instructions in the installation manual.

4. You cannot let anybody who isn't: (A) the AudioControl factory; or (B) somebody authorized in writing by AudioControl service your AudioControl product. If anyone other than (A), or (B) messes with your AudioControl product, the warranty is void.

5. The warranty is void if the serial number is altered, defaced or removed, or if your product has been used improperly. Now that may sound like a big loophole, but here is what we mean by this: Unwarranted abuse is: (A) physical damage (don't use your product to level your dining room table); (B) improper connections (120 volts into the RCA jacks can fry the poor thing). This is the best product we know how to build, but for example if you mount it to the front bumper of your car, drop it over the Niagara Falls or use it for Clay Pigeon shooting practice, something will go wrong.

Assuming you conform to 1 through 5, and it really isn't all that hard to do, we get the option of fixing your product or replacing it with a new one at our discretion.

In the event that your product is out of warranty or not covered under our warranty you may request to have any damage repaired at our normal "Out of Warranty" repair cost.

AudioControl®

Making Good Sound Great™

Legalese Section

This is the only warranty issued by Audio-Control. This warranty gives you specific legal rights, and you may also have rights that vary from state to state. Promises of how well your AudioControl product will work are not implied by this warranty. Other than what we've said we'll do in this warranty, we have no obligation, express or implied. We make no warranty of merchantability or fitness for any particular purpose. Also neither we nor anyone else who has been involved in the development or manufacture of the unit will have any liability of any incidental, consequential, special or punitive damages, including but not limited to any lost profits or damage to other parts of your system by hooking up to the unit (whether the claim is one for breach of warranty, negligence of other tort, or any other kind of claim). Some states do not allow limitations of consequential damages.

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