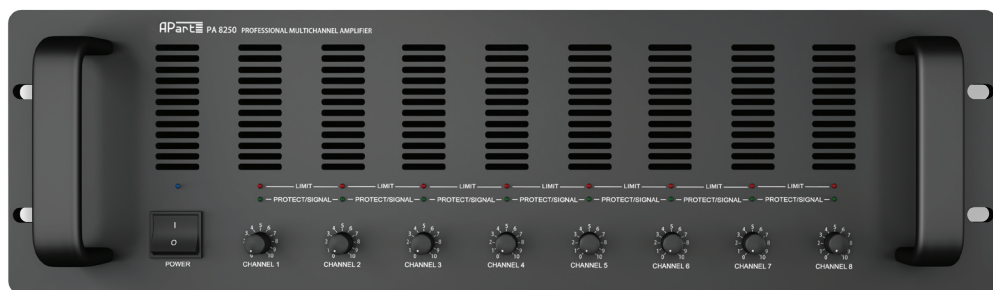


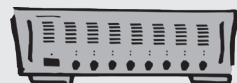


MANUAL

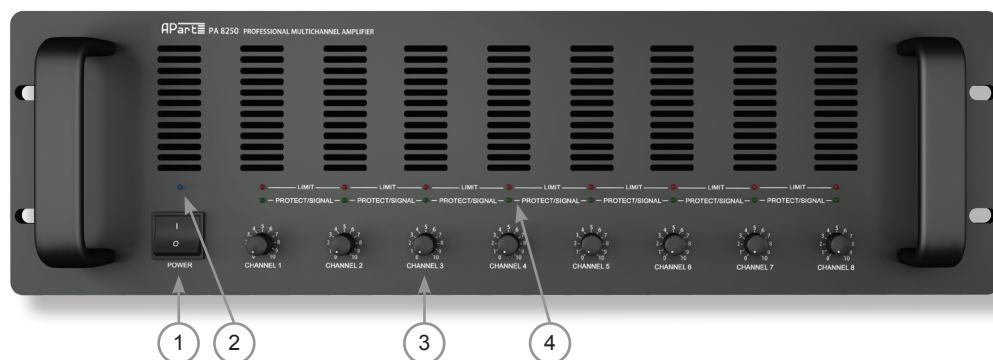


PA8250

INFO@APART-AUDIO.COM



The PA8250 incorporates eight independent high power amplifiers in a convenient 19" enclosure. For those who need more power, there is the possibility of bridging the channels. This way you can configure the amplifier to your needs with a push of a button.



Front panel

1. Power switch

Flip this switch to turn power on and off.

2. Power led

This led is lit when power is on.

3. Channel 1 – 8 level controllers

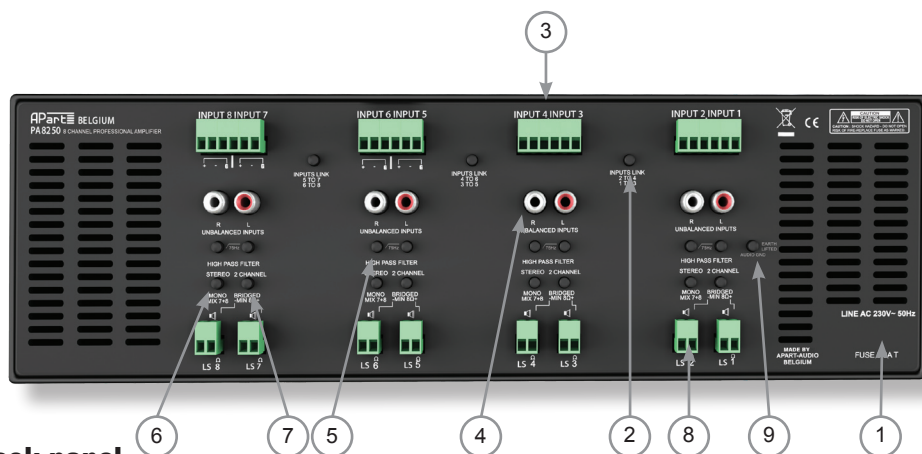
Set the ch. 1 to 8 channel level individually with these level controllers.

4. Channel 1 – 8 status leds:

Upper "limit" led lights up when the internal limiter is active.

This should not or only very sporadically happen. Turn the level controller down if this led lights up frequently. Lower "signal/protect" led lights up green when a sufficiently high signal is present at channels 1 to 8.

This led lights up red when the internal protection circuitry is active, due to an overload or a short circuit. When powering up the PA8250, these leds are red during a few seconds, this is to avoid turn on plops and clicks.



Back panel

1. Fuse

Replace only with a fuse of the same rating: 10 amps, slow blow. When this fuse blows often, please contact your local dealer and have your device serviced.

2. Link switch

When pushed in, this switch allows you to link the inputs of the odd and even numbered channels through. E.g. left input on channel 1, right input on channel 2, by pushing the 1to3/2to4 switch, the L input on channel 1 is switched through to channel 3 and the R input on channel 2 is switched through to channel 4.

3. Balanced inputs channel 1 to 8

Connect your balanced input sources on these Euroblock connectors.

4. Unbalanced inputs channel 1 to 8

Connect your unbalanced input sources on these cinch/RCA connectors. Do not use balanced and unbalanced on the same channel !

5. Highpass filter switch

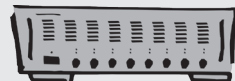
Push this switch to filter out unwanted rumble or low frequency sounds.

6. Stereo/mono switch

Push this switch for stereo or mono operation.

7. 2 channel/bridged switch

Push this switch to put the amplifier in bridge mode: in this mode you can unite the power of two amplifiers into one more powerful amplifier. In bridge mode, minimum load impedance is 8Ω! Connect the speaker – terminal to the even numbered output channel's + connector and the speaker + terminal to the odd numbered output channel's + terminal.



REAR panel

8. Speaker terminals

Connect your speaker wires on these euroblock terminals. Note that minimum load impedance is 4Ω in 2 channel mode and 8Ω in bridge mode.

9. Earth lift switch

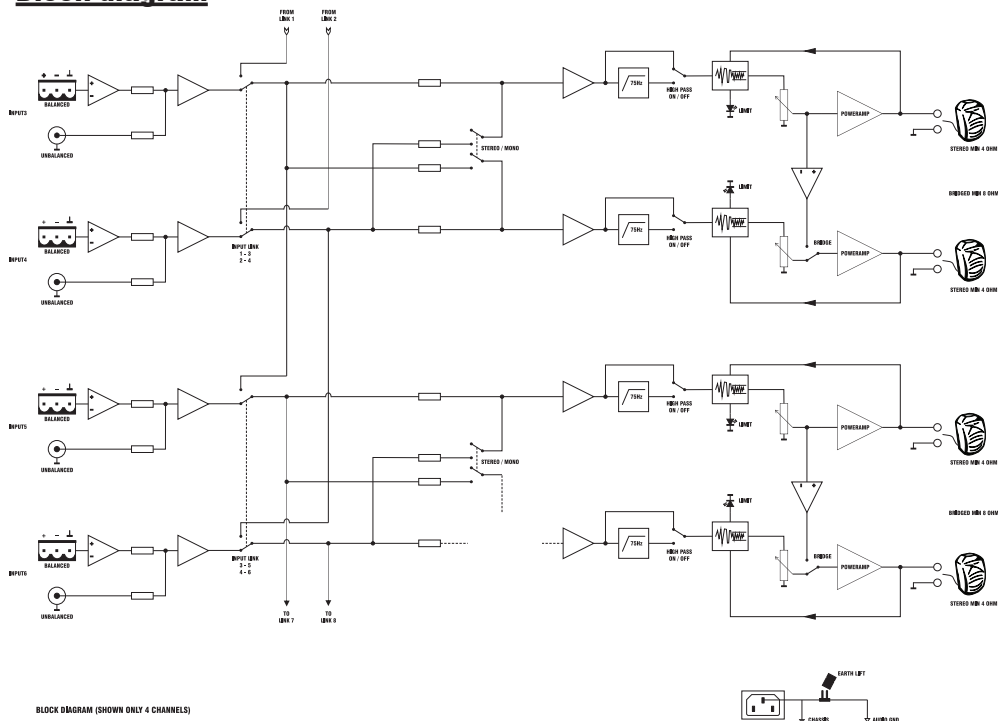
In case you should have a ground loop problem, push this switch to lift the audio inputs from ground. Please avoid ground loop problems and use this switch only in case of emergency.

This is not a miracle problem solving switch

Note: you can use all 8 channels from one stereo source by pushing the 1 to 3/2 to 4, 3 to 5/4 to 6 and 5 to 7/6 to 8 switches. In case you link channels, don't connect any sources to the linked channels, e.g. if you link 1 to 3/2 to 4 you have to apply your input channel to inputs 1 and 2 and keep inputs 3 and 4 free.

Only the levelcontroller and highpass filter switch of the odd numbered channel will be in use
In bridge mode, only the input to the odd numbered channel will be heard. Only the levelcontroller and highpass filter switch of the odd numbered channel are in use.
Also take a look at the signal flow chart on top of the amplifier for more clarity.

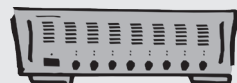
Block diagram





Technical Specifications

AMPLIFIER TYPE	8 CHANNEL BRIDGEABLE
OUTPUT POWER PER CHANNEL 20HZ TO 20 KHZ	
RMS PROGRAM POWER INTO 8Ω	140W
RMS PROGRAM POWER INTO 4Ω	250W
RMS PROGRAM POWER INTO 8 Ω BRIDGED	500
LOAD IMPEDANCE INDIVIDUAL CHANNELS	MIN 4Ω
LOAD IMPEDANCE BRIDGE MODE	MIN 8Ω
DAMPING FACTOR (REF 8 Ω)	>250
FREQUENCY RESPONSE	20HZ - 20 KHZ +/- 1 DB
TOTAL HARMONIC DISTORTION	≤ 0,15%
INTERMODULATION DISTORTION	≤ 0,2%
CROSSTALK	≥ 65 DB
SIGNAL TO NOISE RATIO	≥ 95 DB
SLEW RATE	≥ 15V/MS
INPUTS	BALANCED EUROBLOCK, UNBALANCED RCA (CINCH) BOTH INPUTS ARE SUMMED INTO MIXING POINT
INPUT IMPEDANCE BALANCED INPUT	20 KΩ
INPUT IMPEDANCE UNBALANCED INPUT	10 KΩ
INPUT SENSITIVITY BALANCED & UNBALANCED	0 DBV
ROUTING	LINKABLE STEREO INPUTS, STEREO TO MONO MIX BRIDGE MODE ADJACENT CHANNELS ONLY (E,G, 1&2, 3&4,...)
FILTERS	75 HZ HIGHPASS FILTER, 12 DB/OCTAVE, SWITCHABLE GROUND LIFT SWITCH
LIMITER	AP® LIMITER CIRCUIT, NON DEFEATABLE
PROTECTION CIRCUITS	SIGNAL LIMITER, OVERLOAD, SHORT-CIRCUIT, DC, OVERHEAT,SOFTSTART
COOLING	2 HIGH EFFICIENCY FANS WITH INDIVIDUAL 3 SPEED CON- TROL: OFF (<50°C), HALF SPEED (>50°C), FULL SPEED (>70°C)
POWER SUPPLY	230 VAC/50HZ
FUSE	10A SLOW
POWER CONSUMPTION	IDLE: 25 VA FULL PROGRAM POWER 8 CHANNELS: 1600 VA MAX PEAK POWER: 3400 VA
DIMENSIONS HEIGHT X WIDTH X DEPTH	132 X 483 X 484 MM
WEIGHT	NET: 25,3 KG (GROSS SHIPPING WEIGHT 29,8 KG)



ANY SUGGESTION?

They are well appreciated and eventually rewarded!
Send your ideas or suggestions to

suggestions@apart-audio.com

PA8250 is developed by

Audioprof nv
Lanteernhofstraat 90
BE-2100 Deurne
BELGIUM

