

AVC 4 AUTOMATIC VOLUME CONTROL

Analogue signal processing Complete control

The AVC 4 will control the maximum sound level of two stereo channels, each stereo channel can have two level settings. Sound level control with least impact on the audio quality.

Once the control level is reached the AVC 4 starts to attenuate the audio, the amount of attenuation is shown by the LED meter on the front panel.

There are also dim and mute facilities, if the system is to be linked to a fire alarm these connections will meet the requirements.



The AVC 4 automatically adjusts the volume once a preset threshold has been reached to keep the audio level within that required.

When attenuating the audio signal the distortion from the AVC 4 is less than 0.01% so the quality of the audio is not compromised.

A single adjustment is all that is required for set up. Simple and effective giving good control of audio levels and retaining the sound quality.

A remote display option is available, mounted in a box (120x70x40mm).

The more the input is increased the more the AVC 4 will decrease it, there is a clip LED to indicate if the system is being overdriven.

The AVC 4 can have 2 different levels set and switch between them. If for example a different setting is required for evenings or weekends.

The AVC 4 will not instantly react to individual peaks or dips but responds to average programme level (this avoids sudden volume changes).

The factory setting gives smooth operation that is almost imperceptible as the level is automatically adjusted, with minimal effect on your systems audio quality.

A security panel on the back protects against unauthorised adjustment.



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The advantages which the AVC 4 offers over compressor/ limiters are:

1. No reduction in the dynamic range of the system under normal operating conditions, therefore, the music remains punchy without the restricted sound of compressor/limiters.

Compressor/limiters are a recording studio tool designed to restrict the dynamic range of a music signal, usually to make it easier to control and mix, etc.

Using compressor/limiters in the studio they have an array of controls to set attack and release times, threshold and compression ratios. The settings will be adjusted as the music requires, but without the controls used in studios the dynamics will be restricted and may not sound particularly musical.

So why use them in music systems ?

Until we introduced the AVC 2 there were few options, now the AVC 4 offers greater control.

Simple to use and providing effective control over the audio signal without compromising music quality, the AVC 4 is probably the best piece of equipment for controlling audio volume levels on the market today.

2. The AVC 4 offers great flexibility with its different facilities, allowing the set up to be tailored to the individual installations requirements.
3. The AVC 4 has no external controls for the operator to worry about which also means tampering is minimised. The LED display and clip LED provide all the information the operator needs.
4. An anti-tamper facility which can be connected to an external switch to improve system security is included.
5. The unit has provision to connect to an external time switch (not supplied) to switch between two threshold levels if different limits are wanted for different times of day.
6. A choice of linear, "A" weighted or a combination of both frequency responses can be available in the control chain.

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Channels	2 Independent Stereo channels
Frequency Response:	20Hz - 20Khz +/- 0.5 dB
Distortion:THD+Noise @ 1Khz	O/P Level 0dBu <0.01%
Noise 20Hz - 20Khz:	EIN < -90dBu
Inputs:	Electronically balanced, connect negative to screen for unbalanced use. Input impedance: Balanced 20K Ohms Unbalanced 10K Ohms
	Maximum input level: +22dBu
	Clip indicator: Indicates @ +20dBu
Outputs:	Electronically balanced, connect negative to screen for unbalanced use. Source impedance: 100 Ohms Minimum load impedance: 600 Ohms
Operating Threshold Range:	High range: Average level adjustable -2dBu to +6Bu Low range: Average level adjustable -14dBu to -6dBu
Attenuator Range:	0dB to -30dB
Control chain:	The control chain has a flat frequency response or "A" weighting" or a combination of both. Other responses available on request.
Facilities:	Mute, Dim and level 2 selection are via connections to the back panel. Mute or Dim can be used for fire alarm interfacing, the level 2 allows a different level to be set and selected either by switch or timer.
Power:	220V - 240V (Internally switchable to 110V). IEC Mains connector; mains fuse 250mA slow blow.
Finish:	Front and Rear panels - Black anodised aluminium with silver legend. Case - Black plastic coated steel.
Dimensions:	19" Rack mounting, 1RU Width 482mm (19") Depth 200mm (7.9") Height 44mm (1.75")

Formula Sound reserve the right to alter the specification without notice.

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