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Automatic Volume Control - AVC2

Features

- Reduces the volume if turned up too high
- Installs between mixer (or preamp) and amplifiers
- Operation does not disturb club visitors

Applications

- Live music in pubs, clubs, hotels and restaurants
- Village halls and social clubs
- Music noise from clubs, pubs and nightclubs
- Public entertainment venues

Overview

For pubs, clubs and other entertainment venues with permanent or semi-permanently installed music systems.

The AVC2 Automatic Volume Control is a standard 19" rack mounted unit that connects between the mixer (or preamplifier) and the amplifiers. When the average level gets higher than the threshold, it is reduced in discreet steps that should be undetected by anybody listening to the music. This ensures that the enjoyment of visitors to the entertainment venue is not sacrificed. The unit does not reduce the dynamic range of the music, again protecting the enjoyment factor.

Another benefit of the AVC2 is that it **protects the speakers** from the damage that can occur when over-driven.

The Automatic Volume Control is extremely easy to use. It has no external controls, just a display that shows the amount of attenuation that the unit is applying when the threshold has been exceeded.

Frequency Weightings

Noise measurement and control is usually carried out using the "A" frequency weighting. This is similar to the response of the human ear and is particularly important for noise nuisance and hearing protection applications. However, it is usually the low frequency noise (thumping bass) that can be heard from outside the venue and in nearby properties. It is therefore important to monitor these low frequencies that are effectively removed by the usual "A" weighting.

The Automatic Volume Control can use both "A" weighting and a Linear response. In its default configuration it uses both the "A" weighting and the Linear response, using the higher of the two to check against the threshold. This ensures that the controller will help to protect against both damaging and annoying noise content. It is possible to configure the unit to use either the "A" weighting or the Linear response instead of both.

Connection

Connection to the Automatic Volume Control is by XLR connectors for inputs left and right, outputs left and right and for auxiliary connections.

A security cover protects against the connections simply being removed to bypass the volume controller.

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Specifications

Technical Specifications

Technical specifications for the Formula Sound AVC2 Automatic Volume Control.

Frequency Response	20Hz - 30kHz ±0.5dB
Noise 20Hz to 20kHz	Equiv. input noise < -90dBu
Inputs	Electronically balanced, connect negative screen for unbalanced use Input impedance: Balanced 20 kΩ, Unbalanced 10 kΩ Maximum input level: 22 dBu Clip indicator: Indicates @ 20dBu
Outputs	Electronically balanced, connect negative screen for unbalanced use Source impedance: 100 Ω Min load impedance: 600 Ω
Threshold Range	High range: Average level adjustable 5dBu -2dBu Low range: Average level adjustable -8dBu -14dBu
Attenuator Range	-3dB -6dB -9dB -12dB -15dB -18dB -24dB -30dB
Control Chain	A control chain with a flat frequency response Linear, "A" weighted, or a combination of both may be selected to control the attenuators.
Power	220 - 240V AC. IEC mains connector.
Finish	Front and read panels - black anodised aluminium with etched silver notation. Case - black plastic-coated steel
Dimensions	19" rack mounting. 1RU Width 482 mm (19"), depth 200 mm (7.9"), height 44 mm (1.75")

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Product shortcut:
https://www.noisemeters.co.uk/p/avc2/

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