

## 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            20Hz - 30kHz  $\pm$ 0.5dB  
Response  
Noise 20Hz to        Equiv. input noise < -90dBu  
20kHz  
Inputs                Electronically balanced,  
                             connect negative screen for  
                             unbalanced use  
                             Input impedance: Balanced  
                             20 k $\Omega$ ;, Unbalanced  
                             10 k $\Omega$ ;  
                             Maximum input level: 22 dBu  
                             Clip indicator: Indicates @  
                             20dBu  
Outputs               Electronically balanced,  
                             connect negative screen for  
                             unbalanced use  
                             Source impedance: 100  
                              $\Omega$ ;  
                             Min load impedance: 600  
                              $\Omega$ ;

Threshold  
Range

Attenuator  
Range  
Control Chain

Power

Finish

Dimensions

High range: Average level  
adjustable 5dBu -2dBu  
Low range: Average level  
adjustable -8dBu -14dBu  
-3dB -6dB -9dB -12dB -15dB  
-18dB -24dB -30dB  
A control chain with a flat  
frequency response Linear,  
"A" weighted, or a  
combination of both may be  
selected to control the  
attenuators.  
220 - 240V AC. IEC mains  
connector.  
Front and read panels - black  
anodised aluminium with  
etched silver notation.  
Case - black plastic-coated  
steel  
19" rack mounting. 1RU  
Width 482 mm (19"), depth  
200 mm (7.9"), height 44 mm  
(1.75")

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#### Web Sites

Main site:  
<https://www.noisemeters.co.uk>

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

Tech Support:  
<https://support.noisemeters.com>